

# Career and Technical Education

## Agriculture, Food & Natural Resources Cluster

*FFA is the club/organization for students enrolled in agricultural sciences. In order for all students to be members of the FFA and eligible to show livestock, they must take a minimum of one semester of agricultural science each school year.*

### Principles of Agriculture Food and Natural Resources - 8004

**Credit: 1, Full Year**                      **Grade: 9-11**  
**Prerequisite: None**

This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. Students will learn the history of FFA, Parliamentary Procedure, History of Agriculture, breeds of livestock, Plant and Soil Science and basic mechanics. Opportunities will be made available to introduce students to FFA. The FFA is the largest and premiere youth group in the United States. Membership and raising a project are not required, but recommended.

### Horticulture Science - 8024

**Credit: ½, Semester**                      **Grade: 10-12**  
**Prerequisite: None**

This exploratory course is designed as an introduction to horticultural sciences with emphasis on technical skills and career opportunities, and certifications. Students will gain hands on experience working with plants.

### Food Technology and Safety - 8044

**Credit: ½, Semester**                      **Grade: 10-12**  
**Prerequisite: None**

This course prepares students for careers in value-added and food processing systems, students need to acquire technical knowledge and skills related to value-added and food processing, develop skills regarding career opportunities, and agricultural industry expectations.

This course examines the food technology industry as it relates to food production, handling, and safety.

### Professional Standards in Agribusiness - 8054

**Credit: ½, Semester**                      **Grade: 10-12**  
**Prerequisite: None**

This course will prepare students for careers in agribusiness systems, students need to attain skills related to leadership development and the workplace, and develop knowledge and skills regarding agricultural career opportunities, and agricultural industry expectations. This course primarily focuses on leadership building, communication, employer-employee relations, and problem solving, as they relate to agribusiness.

### Wildlife, Fisheries and Ecology Management - 8074

**Credit: 1, Full Year**                      **Grade: 10-12**  
**Prerequisite: None**

A technical course designed to examine the importance of wildlife and outdoor recreation with emphasis on using wildlife and natural resources. Hunter safety certification is also taught in this class as well as wildlife identification for judging.



### Livestock Production - 8084

**Credit: 1, Full Year**                      **Grade: 10-12**  
**Prerequisite: None**

Students will learn about careers in the field of animal Science. The primary animal species that will be studied in this course is beef cattle, dairy cattle, swine, goats, and poultry.

### Small Animal Management - 8014

**Credit: ½, Semester**                      **Grade: 10-12**  
**Prerequisite: None**

This course will prepare students for careers in the field of animal science. Students need to acquire knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, and industry expectations. Suggested small animals which may be included in the course of study include, but are not limited to, small mammals, amphibians, reptiles, avian, dogs, and cats.

**Equine Science - 8094****Credit:** ½, Semester      **Grade:** 10-12**Prerequisite:** *None*

The care and management of horses has developed into Equine Science, a multi-million dollar industry. The course will help the novice and the student who is already active in the horse industry to learn selection, nutrition, reproduction health, judging, and management of horses, donkeys or mules. Judging trips and tours are an integral and common part of the course.

**Landscape Design and Turf grass Management - 8124****Credit:** ½, Semester      **Grade:** 10-12**Prerequisite:** *None*

This course is designed to develop an understanding of landscape and turf grass management techniques and practices, and gain certifications. Students will gain hands on landscape experience.

**Professional Communication – 8069/8064****Credit:** ½, Semester      **Grade:** 9-12**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. *This course will satisfy the Speech requirement.*

**Range Ecology and Management - 8744****Credit:** ½, Semester      **Grade:** 10-12**Prerequisite:** *None*

This course is designed to develop students understanding of rangeland ecosystems and sustainable forage production, as well as Range identification for judging. *Offered at CLHS and SVHS.*

**Agribusiness Management and Marketing - 8164****Credit:** ½, Semester      **Grade:** 10-12**Prerequisite:** *None*

This course will prepare students for careers in agribusiness systems, students need to attain technical knowledge and skills related to agribusiness marketing and management and the workplace, and develop knowledge and skills regarding career opportunities, and agricultural industry expectations. This course 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.

**Agriculture Mechanics and Metal Technology –****Credit:** 8404- 1, Full Year**Credit:** 8214- ½ Sem. **Grade:** 10-12**Prerequisite:** *None*

This is a hands-on learning course that allows students to develop skills in metal working, welding, tool use, and carpentry. Students will also be exposed to electricity, plumbing, and masonry. Once student skills are sharpened they will have the opportunity to plan and construct metal and wood projects. Students may gain certifications in carpentry, painting and welding.

**Welding - 8865****Credit:** 1, Full Year      **Grade:** 10-12**Prerequisite:** *None*

Welding provides the knowledge, skills, and technologies required for employment opportunities in metal technology systems. The areas of oxy-fuel processes, plasma arc cutting, arc welding, mig welding, and tig welding will be covered. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for success.

**Problems and Solutions of Welding - 8244****Credit:** 1, Full Year      **Grade:** 12**Prerequisite:** *Agricultural Mechanics and Metal Technologies*

This course is a project-based research course for students who have the ability to research a real world problem. Students develop a project on a topic related to

a career interest in this cluster, use scientific methods of investigation to conduct in depth research, matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. To attain academic success, students must have opportunities to learn reinforce, apply and transfer their knowledge, skills and technologies in a variety of settings. **This course is designed to provide students an opportunity to earn one advanced measure for the Distinguished Achievement Program.**

### **Agricultural Facilities Design and Fabrication - 8234**

**Credit: 1, Full Year**                      **Grade: 11-12**  
**Prerequisite:** *Prerequisite: Ag. Mechanics and Metal Technologies, or Welding.*

A more advanced hands on learning course that allows students to further welding and construction skills learned in previous shop courses. Students will learn skills related to facility design and fabrication. More specific skills in site location, material installation, and construction methods are learned. Students will have the opportunity to develop plans and construct projects using metal working, welding and woodworking. Students may gain certifications in electrical, pipefitting, plumbing, masonry and sheet metal.

### **Principles and Elements of Floral Design - 8674**

**Credit: 1, Full Year**                      **Grade: 10-12**  
**Prerequisite:** *None*

This course is designed to develop skills in the design and arrangement of flowers, foliage, and related plant materials for interior locations. Students will create floral arrangements. **This course will satisfy the Fine Arts credit.** *Offered at CLHS, CHS, and SVHS*

### **Practicum in Agriculture, Food and Natural Resources - 8254**

**Credit: 3, Full Year**                      **Grade: 11-12**  
**Prerequisite:** *Junior standing with at least 10 credits, 16 years old, Teacher Approval*

This course is designed to provide technical instruction, on-the-job training, and work experience for high school students preparing to enter employment in various occupations. Students in the Practicum course spend one hour in class each scheduled day of block schedule to receive instruction in the occupations for which they are training and two or more consecutive hours each school

day at training stations in order to learn the occupations. Training stations include the areas of: leadership development, mechanized agriculture, food and fiber production, value added and food processing, horticulture, agribusiness marketing and management, environmental and natural resources, agriculture/agribusiness/etc. Local businesses in the community are cooperating with the local school district in training students by providing work experience necessary to become valuable employees. Students must work a minimum of fifteen (15) hours per week at their training station. Students must provide their own transportation to and from their workstations.

### **Practicum in Agriculture, Food and Natural Resources II - 8264**

**Credit: 3, Full Year**                      **Grade: 12**  
**Prerequisite:** *One course from Agriculture Cluster*

This course is the second year course which is designed to provide technical instruction, on-the-job training, and work experience for high school students preparing to enter employment in various occupations. Students in Practicum II will spend one hour in class each scheduled day of block schedule to receive instruction in the occupations for which they are training and two or more consecutive hours each school day at training stations in order to learn the occupations. Training stations include the areas of: leadership development, mechanized agriculture, food and fiber production, value added and food processing, horticulture, agribusiness marketing and management, environmental and natural resources, agriculture/agribusiness/etc. Local businesses in the community are cooperating with the local school district in training students by providing work experience necessary to become valuable employees. Students must work a minimum of fifteen (15) hours per week at their training station. Students must provide their own transportation to and from their workstations.

## **Finance Cluster**

### **Principles of Business Marketing and Finance - 8664**

**Credit: ½, Semester**                      **Grade: 9-12**  
**Prerequisite:** *None*

Do you like to shop? Sharpen your shopping skills while learning about advertising, marketing and finance. In this class you will learn how to improve your talents, abilities and business skills. Are you a trend setter? Would you like to own your own business? Put your

imagination to work when planning investment and advertising strategies.

### **Accounting I - 8614**

**Credit: 1, Full Year**

**Grade: 10-12**

**Prerequisite: None**

Do you like working with money? Does your future include finding a job after high school or attending college? Why not learn the basics of good money management to help prepare for the future. Learn the "Language of Business" while working with checking accounts, payroll, and money transactions and automated accounting software. Join the fastest growing job market with this valuable skill.

### **Accounting II - 8624**

**Credit: 1, Full Year**

**Grade: 11- 12**

**Prerequisite: Accounting I**

Ever dreamed of owning your own business? Take your money management skills to the next level. Get a jump start on your college/work career with advanced accounting knowledge. Work on real world accounting situations and use automated accounting software to go beyond the basics. This course provides a good foundation for students interested in entering the workforce or continuing on to college.

### **Securities and Investments - 8034**

**Credit: ½, Semester**

**Grade: 10-12**

**Prerequisite: None**

Want to be a successful investor? Come learn the stock market language! Learn what to do with money you earn. Do you like Coca Cola? Do you like to go to Disneyland or Disney World? Would you like to own part of these companies, or make money while you sleep? Come and gain knowledge of common stocks and how they relate to other American business structures. Students will learn career planning concepts, tools and strategies to explore, obtain and develop a career in the securities industry.

### **Banking and Financial Services - 8104**

**Credit: ½, Semester**

**Grade: 10-12**

**Prerequisite: None**

\$\$\$\$ There is *money* in banking! Learn how banks operate from the bottom floor to the top floor. *Gold* and *silver*--come learn the standard in monetary policy. Travel with your class to the Federal Reserve Branch

Bank. Receive an exciting overview of the business and banking world with this class.

## **Business Management and Administration Cluster**

### **Principles of Business Marketing and Finance - 8664**

**Credit: ½, Semester**

**Grade: 9-12**

**Prerequisite: None**

Do you like to shop? Sharpen your shopping skills while learning about advertising, marketing and finance. In this class you will learn how to improve your talents, abilities and business skills. Are you a trend setter? Would you like to own your own business? Put your imagination to work when planning investment and advertising strategies.

### **Business Information Management I - 8643 (Dual 8645)**

**Credit: 1, Full Year**

**Grade: 9 -12**

**Prerequisite: Must follow dual credit process.**

Have you dreamed of becoming an entrepreneur or a tycoon in the business industry? As a student in Business Information Management you will go beyond the basics and get a head start on mastering the most popular business software suite--Microsoft Office. Learn Word, Excel, Power Point and Access and have the opportunity to earn the MCAS Certification (Microsoft Certified Application Specialist). Learn important technology and business skills while utilizing your creativity. Field trips to area business will be planned to discover and emphasize how "Business" can be found in every career. **This course counts for Technology Applications credit**

### **Business Information Management II - 8653 (Dual 8655)**

**Credit: 1, Full Year**

**Grade: 11 -12**

**Prerequisite: ACCUPLACER required for dual credit; Business Information Management Recommended**

As a student in the second year of Business Information Management you will strengthen your individual performance in work place, society, and business management skills. The world of business, as a future goal, is nurtured and all business and technical skills will be reinforced. Oral and written communication,

teamwork, public relations, and leadership skills are emphasized through student's implementation of their own business projects. Student will have further opportunities to receive their MCAS Certifications. Field trips to area business will be planned to discover and emphasize how "Business" can be found in every career.

**Business Management - 8704**  
**Credit: 1, Full Year**      **Grade: 11-12**  
**Prerequisite: None**

Would you like to be a Student/Office Aide and get credit for all your hard work? By taking Business Management you'll be working in one of our high school's offices and also earning high school credit in your Business Management class. As an Office Aide, you will be assisting the school's various offices in accomplishing their duties, such as: acting as messengers, greeting visitors, and organizing materials for distribution, and many other clerical duties. The Business Management class will prepare you to be a vital member of today's office team. As an Office Aide, you will be equipped with the latest technology, communication, and professional skills.

**Business Law - 8134 (Dual – 8135; SVHS, CLHS)**  
**Credit: ½, Semester**      **Grade 11-12**  
**Prerequisite: None**

Do you know your rights? Do you know how law for the minor differs from law for the adult? Anyone who wants to know the basic laws that apply to everyday life, or who is planning a career in any area of business or legal profession, such as Court Reporter, Legal Secretary, Paralegal, or Lawyer this is the class for YOU! Topics covered include: civil and criminal law, internal law, contract and employment law, school law, and law for the minor. Students will enjoy participating in roles of juror, witness, plaintiff, defendant, attorney, school administrator, business owner, employee and employer while participating in activities such as simulations and mock trials. Students will take a field trip to the County Courts, and area attorneys and judges are among some of the speakers who are invited to the class.



**Global Business - 8154**  
**Credit: ½, Semester**      **Grade: 10-12**  
**Prerequisite: None**

Are you interested in a business career that allows you to travel around the world and work with people from various countries? International Business will allow you to understand the skills necessary to conduct business in today's rapidly changing global economy. Students will understand cultural differences and how to conduct business transactions with individuals in other countries. In addition, students will have the opportunity to learn from guest speakers who are currently involved in the exciting world of international business. *Offered at CHS and SVHS.*

**Practicum in Business Management - 8724 (Dual - 8725)**  
**Credit: 3, Full Year**      **Grade: 11-12**  
**Prerequisite: 16 years of age, teacher approval and course application required**

Are you ready for the real world of employment and earning your own money? This course enables students to integrate classroom learning with paid on-the-job experience. Students will experience the working world through an educationally managed agreement between the employer, the student, and their employer. Workplace skills with an emphasis on current technology, and Personal Development skills relating to self-esteem, self-improvement, positive attitudes, communication, resolving conflict, work ethics, and working with others are emphasized. This class serves as the major vehicle for cooperative education. Students must furnish their own transportation in order to travel to their employment. *Offered at CHS and SVHS.*

**Practicum in Business Management II - 8734 (Dual – 8735)**  
**Credit: 3, Full Year**      **Grade: 12**  
**Prerequisite: Practicum in Business Management I**

As the second year of classroom and paid on-the-job training, students will receive reinforcement of the skills necessary to have success in the business world. The course provides an advanced and in-depth study of concepts that allow an employee to manage and function in the workplace. Economical, financial, technological, international, social, and ethical aspects will be developed to promote student's competence as consumers, employees, and entrepreneurs. Occupational skills, such as technology, effective communication, time

management, money management skills, and setting priorities are discussed as a means to allow a person to manage and function well in the workplace, as well as in life. Students are encouraged to set goals and pursue employment in areas that may be their interest as a life-long career. Students must provide their own transportation. *Offered at CHS and SVHS.*

### **Problems and Solutions - 8634, 8635**

**Credit:** ½-1, **Sem.-Full Yr.** **Grade:** 11 - 12

**Prerequisite:** *Counselor Approval*

This course is a project-based research course for students who have the ability to research a real world problem. Students develop a project on a topic related to a career interest in this cluster, use scientific methods of investigation to conduct in depth research, matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. To attain academic success, students must have opportunities to learn reinforce, apply and transfer their knowledge, skills and technologies in a variety of settings. **This course is designed to provide students an opportunity to earn one advanced measure for the Distinguished Achievement Program.** *Offered at CHS and SVHS.*

## **Information Technology Cluster**

### **Principles of Information Technology - 8833 (Dual – 8835 CHS only)**

**Credit:** 1, **Full Year** **Grade:** 9-12

**Prerequisite:** *None*

Students develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment. The student applies design and web publishing techniques. **This course counts for Technology Applications Credit**

### **Digital and Interactive Media - 8683**

**Credit:** 1, **Full Year** **Grade:** 10-12

**Prerequisite:** *None*

Through the study of digital and interactive media and its application in information technology, students will analyze and assess current and emerging technologies,

while designing and creating multimedia projects that address customer needs and resolve a problem. Students 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 enhance reading, writing, computing, communication, and critical thinking and apply them to the information technology environment. **This course counts for Technology Applications Credit.**

### **Computer Maintenance - 8484**

**Credit:** 1, **Full Year** **Grade:** 11-12

**Prerequisite:** *None*

Why pay someone else to fix your computer? Better yet, why not be the person other people pay to fix theirs? Learn hardware repair, software troubleshooting, networking basics, imaging techniques and more while working your way toward A+ certification. Upon completion of course, student has possibility of becoming A+ certified computer repair technician. *Offered at SVHS.*

### **May Mester: Dual Credit - 8645 Business Information Management I**

**Grade:** 10-12

*Offered at CHS and SVHS*

As a student in this course, you will learn the most important topics of Microsoft Office Word 2007, including creating business documents, editing and formatting documents, creating multiple-page reports, desktop publishing, and mail merge. No prior computer experience is assumed. **Course counts for one credit of Technology Applications credit. Dual credit approved. ACCUPLACER required. (Classroom seat count is limited to 25 per campus.)**

Monday-Friday - 4:15-8:30 pm

Date: May 7-25, 2012

### **Information Technology and Security Academy - 9065**

**Credit: 3, Full Year**

**Prerequisite:** *ACCUPLACER*

*Application/Dual Credit. This course is offered at Central Texas Technology Center. See Counselor for enrollment packet,*

(ITSA) is a dual credit program for high school juniors and seniors sponsored by the Alamo Community College District. The goal of the program is to provide students with an introductory experimental and didactic curriculum in Information Security and Assurance. Students receive specialized instruction and training from college professors in Information Technology, Operating Systems, Networking, Information Security, and Computer Programming.

In addition, the students are eligible to participate in the Summer Internship Program, which provides them with the opportunity to utilize their knowledge, skills, and abilities in a “real-world” work environment. The students acquire high school and 27 hours of technical college level credit, and at the conclusion of the program, they earn a Certificate of Completion in Information Security and Assurance from the Alamo Community College District. ITSA will be offered at the Central Texas Technology Center.

## **Education and Training Cluster**

### **Instructional Practices in Education and Training - 8964**

**Credit: 2, Full Year**                      **Grades: 11-12**

**Prerequisite:** *Teacher approval and application required*

Have you considered a career in education? Would you like hands on experience working in the classroom with elementary, middle, or high school students before you go to college? Practicum in Education and Training is a 2 credit field-based internship that provides students background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students will mentor with an experienced elementary, middle or high school teacher along with education and training from an experienced Family and Consumer Sciences teacher. Students learn to plan and direct individualized instruction and group activities, prepare lesson plans, assist with record keeping, and complete other responsibilities of classroom

teachers, trainers, paraprofessionals, or other educational personnel. The students must provide their own transportation.

### **Practicum in Education and Training - 8974**

**Credit: 2, Full Year**                      **Grades: 12**

**Prerequisite:** *Instructional Practices in Education*

Did you love Instructional Practices in Education and Training and working in the school setting with a mentor teacher? Practicum in Education and Training is a 2 credit field-based internship that provides students extended background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students will apply their experience by planning instructional materials and teaching in a classroom setting of their interest with a mentor teacher along with mentoring to first year Education and Training students. The students must provide their own transportation.



## **Human Services Cluster**

### **Principles of Human Services - 8114**

**Credit: 1, Full Year**                      **Grade: 9-12**

**Prerequisite:** *None*

Learn about life. Map out your future and start deciding what you want to do when you grow up. This comprehensive laboratory course enables students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, and personal care services. This introductory course provides practical information in the areas of self-discovery, relationships, consumer resource management, housing/interior design, child care and development, nutrition and food preparation, clothing selection and maintenance, and career preparation essential for becoming successful personally and in the work place.

**Interpersonal Studies - 8324****Credit:** ½, **Semester**                      **Grade:** 10-12**Prerequisite:** *None*

This course examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services. *Offered at CHS and SVHS.*

**Lifetime Nutrition and Wellness - 8224****Credit:** ½, **Semester**                      **Grades** 10-12<sup>th</sup>**Prerequisite:** *None*

Plan and prepare healthy meals. Learn to live a healthy lifestyle. This technical laboratory course concentrates on nutrition and food management skills promoting health and wellness. Instruction addresses menu planning for nutritionally balanced diets; strategies for managing diet related diseases; weight management and fitness; safety and sanitation in preparing and storing food; consumer management and fitness; consumer food buying strategies and budgeting and utilizing food labels. Students will investigate careers relating to nutrition and foods. The fully equipped lab facility allows students to demonstrate knowledge of food preparation management principles through laboratory experiences. *Earn a ServSafe Starters Employee Guide Certificate.*

**Child Development - 8344****Credit:** ½, **Semester**                      **Grade:** 10-12**Prerequisite:** *None*

Do you like children? Are you interested in a career working with children? If you answered “yes”, then this course is for you! This course focuses on the many areas of development of children from conception through childhood, including those children with special needs. Other topics include proper prenatal care, providing appropriate activities for children, as well as information on child care related careers.

**Child Guidance - 8334****Credit:** ½, **Semester**                      **Grade:** 10-12**Prerequisite:** *None*

As society points to a growing need for effective skills in caring for children, this practical laboratory course

places emphasis on child growth and guidance as it addresses physical, intellectual, emotional and social development of the child. Students will develop the skills necessary in the caregiver role for promoting the healthy development of children, strengthening a culturally diverse society, and pursuing careers related to the care, guidance and education of children, including those with special needs. *Offered at CHS and SVHS.*

**Parenting Education for School-Aged Parents I/II - 9234/9264****Credit:** ½-1, **Sem.-Full Year**    **Grade:** 9-12**Prerequisite:** *None*

This laboratory course is designed to address the special needs and interests of male and female students who are parents or who are pregnant. Special emphasis is placed on prenatal care and development, postnatal care, child development, infant care, and parenting skills. Students are provided opportunities to develop the knowledge and skills to become successful parents and to prepare for managing the multiple roles of student, parent, family member, and wage earner.

**Family and Community Services - 9046****Credit:** 1, **Full Year**                      **Grade** 11-12**Prerequisite:** *Family and Community Services*

If you are interested in community service experiences, then this course is designed for you. Students will plan and implement community service activities through community service projects each semester. Through these service opportunities students will develop and enhance their organizational and leadership skills and characteristics. Opportunities will also be provided for students to mentor elementary and middle school students on their respective campuses. Students will explore careers, agencies, and organizations focusing on family services

**Family and Community Services II - 9076****Credit:** 1, **Full Year**                      **Grade** 12**Prerequisite:** *Family and Community Services*

Seniors...If you are interested in community service experiences, then this course is designed for you. Students will plan and implement community service activities through community service projects each semester. Through these service opportunities students will develop and enhance their organizational and leadership skills and characteristics. Opportunities will

also be provided for students to mentor elementary and middle school students on their respective campuses. Students will explore careers, agencies, and organizations focusing on family services.

## **Arts, AV Technology and Communications Cluster**

### **Fashion Design - 8454**

**Credit: 1, Full Year                      Grade: 10-12**

**Prerequisite:** *None*

If you have a love for fashion and the textile and apparel industries this is the course for you. In this hands-on laboratory course you will learn the current fashion trends, maintenance and care for apparel, use design elements and principles in garment construction, recycle and redesign apparel, explore career opportunities, develop a professional portfolio and much more. You also will comprise a career portfolio and create a mock window display.

### **Advanced Fashion Design - 8194**

**Credit: 2, Full Year                      Grade: 11-12**

**Prerequisite:** *Fashion Design I*

This hand-on laboratory course emphasizes design and production. The student will research the fashion industry, determine textile characteristics on apparel and fashion, design and construct advanced garments, and continue to develop your career portfolios. If you want to learn what it takes to be a fashion designer and learn marketing and promotion skills this is the class for you.

### **Commercial Photography - 8754**

**Credit: 1, Full Year                      Grade: 9-12**

**Prerequisite:** *None*

This technical course is designed to provide advanced knowledge and skills acquisition of the contemporary resources, processes and impacts of graphic communications technology. Activities in this course may include graphic design, computer image composition, preparing production, image transfer and finishing experience. Examples of student learning activities are taking and editing photographs, publishing a newsletter, using computers to transmit information, and developing quality control methods. Examples of equipment used are digital cameras, video camcorder, recorders, copiers,

computers hardware/software and optical systems. *Offered at CHS and SVHS.*

### **Advanced Commercial Photography - 8764**

**Credit: 2, Full Year                      Grade: 10-12**

**Prerequisite:** *Students must have completed Commercial Photography. Teacher's signature required.*

This is an advanced technical course designed for students to apply skills and knowledge learned in Photograph I. Examples of student learning activities are create photographs for a defined purpose using approved composition and layout techniques, and create an advertising campaign for specific products. . Examples of equipment used are digital cameras, video camcorder, recorders, copiers, computers hardware/software and optical systems. *Offered at CHS and SVHS.*

### **Audio Video Production - 8684**

**Credit: 1, Full Year                      Grade 9-12**

**Prerequisite:** *None*

Have you ever dreamed of making your own movies? In Audio Video Production that's exactly what we do. We use Mac computers and the latest and greatest film making software, Macintosh Final Cut Pro, to make our own live action, animated, multi-camera, and sound-dubbed films. You'll learn pre-production, editing, and post-production techniques that will allow you to export your films in a variety of formats for DVD, Web, and Podcast use. AND you will have the opportunity to earn your Apple Certified Level I End User Certification for Final Cut Pro should you wish to do so. This class is for serious filmmakers only because there is a lot to learn! **This course will count for Technology Applications credit.** *Offered at CHS, CLHS and SVHS.*

### **Advanced Audio Video Production - 8354**

**Credit: 2, Full Year                      Grade 10-12**

**Prerequisite:** *Audio Video Production and Teacher Recommendation*

Did you enjoy Audio Video Production last year? Then why not move on up to Advanced Audio Video where your Final Cut Pro skills will be put to the test creating films for competition and possibility for profit? Hone your filmmaking skills and create projects you can be truly proud of. Learn advanced Final Cut Pro and Motion techniques, scriptwriting, and more. What other class gives you that?

**Graphic Design and Illustration - 8204**  
**Credit: 1, Full Year**                      **Grade 9-12**  
**Prerequisite: None**

Learn Adobe Illustrator and Photoshop – two programs used widely throughout the art, business, scientific, design and multimedia industries. Build two-dimensional cartoons and artwork in Illustrator and Photoshop and learn to animate them in Photoshop and Flash. Find out what your digital camera is capable of and how to improve and artistically alter your pictures using Photoshop. Don't pay big bucks for this knowledge years from now! Learn it now while you're still young, and while it's free! **This course counts for Technology Applications credit.** *Offered at CHS, CLHS and SVHS.*

**Advanced Graphic Design and Illustration - 8205**  
**Credit: 2, Full Year**                      **Grade 10-12**  
**Prerequisite: Graphic Design and Illustration and Teacher recommendation**

Take what you learned last year in Graphic Design and Illustration to the next level. Work on advanced projects that combine Illustrator, Photoshop and other software in new and exciting ways. Want to dive more into animation – go for it! Interested in finding out how to sell photos for profit – you can! Want to build websites for your use or to sell to companies? Why not? Individual interests and custom tailored projects are the name of the game in this class. Head to college with a whole lot of knowledge! **This course counts for Technology Application credit.** *Offered at CLHS and SVHS.*

**Problems and Solutions - Advanced Film - 8314**  
**Credit: 1, Full Year**                      **Grade: 12**  
**Prerequisite: None**

This course is a project-based research course for students who have the ability to research a real world problem. Students develop a project on a topic related to a career interest in this cluster, use scientific methods of investigation to conduct in depth research, matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. To attain academic success, students must have opportunities to learn reinforce, apply and transfer their knowledge, skills and technologies in a variety of settings. **This course is designed to provide students an opportunity to earn**

**one advanced measure for the Distinguished Achievement Program.** *Offered at CLHS and SVHS.*

**Professional Communication - 1244**  
**Credit: ½, Semester**                      **Grade: 9-12**  
**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. *This course will satisfy Speech credit.*

## Hospitality and Tourism Cluster

**Principles of Hospitality and Tourism - 9224**  
**Credit: ½, Semester**                      **Grade 10-12**  
**Prerequisite: None**

This course provides an introduction to the many facets of the Hospitality & Tourism industry, including lodging; travel and tourism; recreation, amusements, attractions, and resorts; and restaurants and food and beverage service. Students will develop knowledge and skills to function effectively in various positions within this multi-faceted industry. Knowledge-based learning will extend beyond the classroom through hospitality related businesses in the community. *Offered at CHS and SVHS*

**Travel and Tourism Management - 9124**  
**Credit: ½, Semester**                      **Grade: 10-12**  
**Prerequisite: Principles of Hospitality and Tourism**

Come fly with us as we discover the world of travel and tourism! In this class you will investigate the airlines, international travel, cruising, and travel by rail, lodging, recreation, amusements, attractions, and resorts. Develop your communication skills, learn technology related to the travel industry, and create your own travel brochure. Learn what qualifications are required for employment and explore the many opportunities available in the travel and tourism industry. *Offered at SVHS.*

## **Hospitality Services - 8464**

**Credit: 1, Full Year      Grade: 11-12**

**Prerequisite:** *Travel and Tourism Management*

Want to be better prepared for one of the fastest growing job industries in the nation? Then you want to take Hospitality Services! Students will gain knowledge and skills to pursue the full range of the hospitality services industry; from hotel management, to restaurant management, to travel and tourism. Develop your public relations skills, learn strategies to provide the best customer service and customer satisfaction, and develop team-building and leadership skills. The student will develop a personal career portfolio and participate in internships and job shadowing. *You can receive a service industry certification upon completion of course and internship. Offered at CHS and SVHS*



## **Culinary Arts – 8945/8944**

**Credits: 1-2      Grades: 11-12**

**Prerequisite:** *Lifetime Nutrition and Wellness is recommended but not required. Teacher approval and course application required.*

Experience the excitement of the Food Network at Smithson Valley High School. If you have a passion for food and a craving to learn, you've come to the right place. Culinary Arts is the course for you. Do you see yourself as a chef, restaurateur, food writer, or even foodservice manager or research and development professional? Or perhaps you picture yourself as a baker, pastry chef, cake decorator, or bakery café owner. This course provides work-based training designed to develop knowledge and skills for employment in the area of food production, management, and services. Instruction includes operation and management of foodservice establishments, marketing strategies, quantity food production skills, food presentation and service

techniques, and technology applications in the foodservice industry. Each student is provided the opportunity to take the ServSafe Employee Guide® course and test as well as the national ServSafe® exam, for certification. Legal considerations, customer service, career options, and managing multiple family, community, and career roles are contained in the content. *Offered at SVHS.*

## **Practicum in Culinary Arts - 8954**

**Credit: 2, Full Year      Grades: 12**

**Prerequisite:** *Teacher approval and course application required. Lifetime Nutrition and Wellness recommended.*

**Iron Chef! Chopped!** Sound familiar. Experience the authentic simulation of the Culinary Arts industry and the Food Network with an opportunity to extend your culinary training in our on-campus culinary kitchen and dining room or off-campus at approved restaurants, hotels, or resorts. Learn while doing. The Culinary Arts internship practicum will give you an exciting real-world taste of the Culinary Arts industry. Culinary Arts puts you right in the middle of the action in restaurants that includes experience for both back-of-the-house and front-of-the-house learning. This course provides occupationally-specific training designed to develop knowledge and skills for employment in the area of food production, management, and services. Instruction includes development of a professional portfolio, operation and management of foodservice establishments, marketing strategies, quantity food production skills, food presentation and service techniques, and technology applications in the foodservice industry. Each student is provided the opportunity to take the ServSafe Employee Guide® course and test as well as the national ServSafe® exam. Successful completion of these nationally recognized programs entitles the student to receive certificates that can be used for three years before renewal is required. Legal considerations, customer service, career options, and managing multiple family, community, and career roles are contained in the content. *Offered at SVHS.*

## **Career Preparation I - 8374**

**Credit: 3, Full Year      Grade: 11-12**

**Prerequisite:** *16 years of age, teacher approval and course application required.*

Are you ready to make money, leave school early, and get credit while on the job? Career Preparation is an occupationally specific, 3 credit course designed to provide an integrated academic training in the classroom and on the job. Classroom instruction will cover

occupational skills, critical thinking, creating a professional portfolio, teamwork, communication, ethical and legal responsibilities, time and money management, and entrepreneurship. Employment opportunities include education and child care training, culinary arts, hospitality, interior design, and fashion. Students must provide their own transportation.

### **Career Preparation II - 8384**

**Credit: 3, Full Year                      Grade: 12**

**Prerequisite:** *Career Preparation I*

Career Preparation II is for seniors who have taken Career Preparation I and want to continue a career path, leave campus early, and make money. CISD offers four paid positions in the elementary schools and second year Career Preparation students are the first to be considered for those positions. Career Preparation is an occupationally specific, 3 credit course designed to provide an integrated academic training in the classroom and on the job. Classroom instruction will cover a more in-depth study of the occupational training; assist in instruction and mentoring first year students. Employment opportunities include education and child care training, culinary arts, hospitality, interior design, and fashion. Students must provide their own transportation.

## **Health Science Cluster**

### **Principles of Health Science Technology-8414**

**Grade: 9-12**

**Prerequisite: None**

**Credit: 1, Full Year**

This course is designed to provide an opportunity for understanding the concepts and skills necessary for entering the health care field. Essential elements included in this course are current events in health care, medical terminology, anatomy and physiology (build body using clay!), human growth and development, CPR, first aid, basic concepts of illness and wellness, medical communications skills, and interpersonal relationships. *This course will satisfy the health requirement. Offered at CHS and SVHS.*

### **Medical Terminology - 9174**

**Credit: ½, Semester                      Grade 9-12**

**Prerequisite: None**

This course is designed to help students develop a working knowledge of the language of medicine. Students are introduced to the structure of medical terms including prefixes and suffixes, combining forms and word roots, plus medical abbreviations and acronyms. The Dean Vaughn Medical Terminology 350 system is used in this course. This unique and proven teaching program has unsurpassed learning and retention success rates. Knowledge of medical terminology enhances the student's ability to successfully secure employment or pursue advanced education in health care. *Offered at CHS and SVHS.*

### **Health Science - 8424**

**Credit: 1, Full Year                      Grade: 10-12**

**Prerequisite:** *Principles of Health Science recommended.*

This course is designed to help students develop the essential knowledge and skills for entering the health care profession elements included in this course are legal and ethical responsibilities, promotion of safety, infection control, vital signs, medical terminology, and current events in health care. *This course will satisfy the health requirement. Offered at CHS and SVHS.*



### **Medical Microbiology - 9114**

**Credit: ½, Semester                      Grade 12**

**Prerequisites:** *Three credits in science recommended. To receive credit in science, students must meet 40% laboratory and fieldwork requirement. Biology I, Chemistry I or concurrent enrollment of Chemistry I*

Students in Medical Microbiology study the relationships of microorganisms to wellness and disease. They develop knowledge and skills related to disease prevention by learning the chain of infection, asepsis, and standard precautions. Pathogenic and nonpathogenic organisms will be identified to assist in the understanding of specific disease, causative agents, and treatment options. *Counts for 4<sup>th</sup> year of Science Credit with Pathophysiology as the second course. Offered at SVHS.*

### **Pathophysiology - 9134**

**Credit: ½, Semester                      Grade: 12**

**Prerequisite:** *Biology and Chemistry*

Pathophysiology offers students the opportunity to use the background skills and knowledge obtained from the medical microbiology course to make decisions

concerning diagnosis, prevention, and treatment of disease caused by microbes. Case studies and clinical analysis techniques provide students with a strong foundation for making choices in future health and medical careers. *This course counts as a 4<sup>th</sup> year of Science with Medical Microbiology. In order to receive credit in science, students must meet 40% laboratory and fieldwork requirement. Offered at SVHS.*

### **Practicum in Health Science**

#### **Clinical Rotation - 8434**

**Credit: 2, Full Year      Grades: 10-12**

**Prerequisite:** *Biology, Chemistry recommended. Teacher approval and application required.*

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

Students will be introduced to a variety of aspects of health care by rotation among the various departments in the area. Students will observe in a large variety of health care areas. Career areas for rotation include veterinary medicine, nursing, physical therapy, ophthalmology, chiropractic, dentistry, x-ray technology, pharmacy, nursing home, etc. *Offered at CHS and SVHS.*

### **Problems and Solutions of Health Science**

#### **Technology - Pharmacology - 8394**

**Credit: 1, Full Year      Grade: 12**

**Prerequisite:** *Must be a senior and be at least 18 years before graduation date. You cannot have a criminal record. Teacher approval and application required.*

An occupationally specific course (s) designed to provide knowledge and skills for certification or licensure in an allied health career. Students develop advanced clinical skills necessary for employment in the health care industry or continued education in health careers. This course provides students with the knowledge and skills in the classification and study of pharmacological agents to understand the treatment, care, and restoration of clients' health. Students will learn the material to challenge (at their own expense) the Pharmacology Certification Exam upon turning 18 years of age. Successful completion of this course will prepare the student to sit, for the National Pharmacy Technician Certification Exam, upon graduation from high school. Competencies in Federal Law, Medication Review, Aseptic Techniques, Calculations and Pharmacy

Operations will be covered. This class is Internet based is self paced and instructor directed and has approximately 150 hours of instruction. It is a challenging course and requires self discipline and good study skills. There is a cost of approximately \$125.00 which is required for registering to sit for the exam.

### **Anatomy and Physiology - 8403 (Dual - 8405)**

**Credit: 1, Full Year      Grade: 11-12**

**Prerequisite:** *Completion of science graduation sequence.*

Anatomy and Physiology is an advanced course recommended for students with a strong interest in science and good study skills. In this course, students conduct laboratory investigations and fieldwork. Students will study the structures and functions of the human body and body systems and will investigate the body's responses to forces; maintenance of homeostasis; electrical interactions; transport systems; and energy systems. **This course will count for the fourth year of Science Credit.**

## **Manufacturing Cluster**

### **Principles of Manufacturing**

**Credit: 1 Full -8785**

**Credit: ½, Semester- 8784      Grade: 9-12**

**Prerequisite:** *None*

This course is an introductory course **taught in a woodworking lab**. Students will gain knowledge and skills in transforming raw materials into finished products. Students study common manufacturing tools, machines, materials, and processes. The class will include design, budget, marketing, production and sales of a product(s). Students will explore organizational structures as well as career opportunities available in manufacturing. *Offered at CHS.*

### **Welding - 8894**

**Credit: 2, Full Year      Grade: 10-12**

**Prerequisite:** *None*

Welding provides the knowledge, skills, and technologies required for employment opportunities in metal technology systems. The areas of oxy-fuel processes, plasma arc cutting, arc welding, mig welding, and tig welding will be covered. Knowledge about career opportunities, requirements, and expectations and the

development of workplace skills prepare students for success.

**Advanced Manufacturing and Technology Academy - 9035/9135**

**Credit: 3, Full Year                      Grade 11-12**

**Prerequisite:** *ACCUPLACER/Application.*

*This course is offered at Central Texas Technology Center. Apply Texas Application required. See Counselor for enrollment packet.*

## Architecture and Construction Cluster

### Principles of Architecture and Construction - 8694

**Credit; 1/2, Semester                      Grade: 9-12**

Do you find yourself being amazed by the progress being made on the construction going on at your school? Principles of Architecture and Construction will give the student an understanding of what's really happening from start to finish. The course will cover how to create, read and interpret technical information in reports and documents such as estimates, permits and work orders by using a variety of hardware and software. Problem solving skills will be used to evaluate and adjust plans and schedules to respond to unexpected events. The student will investigate available opportunities and careers in these fields as well as public relation skill to cover a variety of situations. How to manage materials safely will also be covered. *Offered at SVHS.*

### Architectural Design - 8794

**Credit: 1, Full Year                      Grade: 10-12**

**Prerequisite:** *Principles of Architecture and Construction*

Students gain knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, and landscape architecture. Architectural design includes the knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for commercial or residential architectural purposes. In this advanced technical course students will use a Computer Aided Drafting and Design (CADD) system with AutoCAD

software to design and produce the drawings associated with residential home building. Students will study the architectural styles, and construction practices related to modern architecture and will become familiar with the graphic standards accepted by the American Institute of Architects (AIA). *Offered at SVHS.*

### Engineering Design and Presentation - 8934

**Credit: 1, Full Year                      Grade: 10-12**

**Prerequisite:** *None*

Students enrolled in this course will demonstrate knowledge and skills of the process of design as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Additionally, students explore career opportunities in engineering, technology, and drafting and what is required to gain and maintain employment in these areas.

### Engineering Mathematics - 8994

**Credit: 1, Full Year                      Grade: 11\* - 12**

**Prerequisite:** *Must be taken after Algebra I, Geometry, and Algebra II to satisfy graduation requirements in math under the recommended and DAP graduation plan.*

Engineering Mathematics is a course where students solve and model robotic design problems. Students use a variety of mathematical methods and models to represent and analyze problems involving data acquisition, spatial applications, electrical measurement, manufacturing processes, materials engineering, mechanical drives, pneumatics, process control systems, quality control, and robotics with computer programming. This course will count as a fourth math credit. *Offered at CLHS only. This course will satisfy graduation requirements under the recommended or DAP graduation plan.*



### Concepts of Engineering and Technology - 8774

**Credit: 1, Full Year                      Grade: 9-12**

**Prerequisite:** *None*

Have you ever wondered just how the fields of science, engineering, mathematics, and technology are related?

Concepts of Engineering and Technology will offer the student the opportunity to gain knowledge and skills in these areas by completing assignments and projects using a variety of hardware and software. The student will investigate available opportunities and careers in these fields. Furthermore, the student will be a part of a variety of problem solving activities including a design team that will participate in a cumulative project that involves the development, testing, and presentation of a model while following appropriate safety guidelines. A portfolio will be generated through the course of the year. *Offered at SVHS.*

### **Interior Design - 8364**

**Credit: 1 Full Year                      Grade: 10-12**

**Prerequisite:** *None*

Do you find yourself watching HGTV? Do you love driving through neighborhoods looking at architecture or landscaping? Are you interested in a career as an Interior Designer, Architect or Real Estate Agent? This course will appeal to those desiring an overview of architectural styles, community planning, future housing trends, as well as basic construction. The content also addresses design principles, furniture styles, lighting, accessories, and appliances. The student will acquire basic knowledge of computer-aided design methods to create interior drawings for presentations.

### **Construction Technology - 8874**

**Credit: 1, Full Year                      Grade: 10-12**

**Prerequisites:** *Recommended, Principles of Manufacturing*

Students will gain knowledge and skills specific to those needed to enter the workforce in the areas of carpentry and construction. Students acquire knowledge and skills in safety, tool usage, building materials, codes, and framing. *Offered at CHS.*

### **Mill and Cabinetmaking Technology - 8984**

**Credit: 2, Full Year                      Grade: 10-12**

**Prerequisite:** *Principles of Manufacturing*

Students gain knowledge and skills specific to those needed to enter the work force in the area of millwork and cabinetmaking manufacturing and installation. The students may also apply these skills to professions in carpentry and construction. Students acquire knowledge and skills in cabinet design, tool usage, joining methods, finishes, and new and emerging technologies specific to this area of study. *Offered at CHS.*

### **Problems and Solutions in Technology - 8824**

**Credit: ½ - 1 Full Year                      Grade: 11-12**

**Prerequisite:** *Seek Instructors approval.*

This course is a project-based research course for students who have the ability to research a real world problem. Students develop a project on a topic related to a career interest in this cluster, use scientific methods of investigation to conduct in depth research, matched with a mentor from the business or professional community, compile findings, and present their findings to an audience that includes experts in the field. To attain academic success, students must have opportunities to learn reinforce, apply and transfer their knowledge, skills and technologies in a variety of settings. **This course is designed to provide students an opportunity to earn one advanced measure for the Distinguished Achievement Program**

## **Transportation, Distribution, Logistics Cluster**

### **Principles of Transportation, Distribution, and Logistics - 8554**

**Credit: 1/2, Semester                      Grade 9-11**

**Prerequisites:** *None*

In Principles of Transportation, Distribution, and Logistics, students gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This knowledge includes the history, laws and regulations, and common practices used in the logistics of warehousing and transportation systems. Students should apply knowledge and skills in the application, design, and production of technology as it relates to the transportation, distribution, and logistics industries. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. *CHS only*

### **Automotive Technology - 8504**

**Credit: 2, Full Year                      Grade: 9-12**

**Prerequisites:** *Principles of Transportation, Distribution, and Logistics All students must attend class at CHS. Bus transportation from CLHS and SVHS will be provided.*

Fees: Uniform/Skills USA. Students must meet requirements of St. Philip's College.

Automotive services include knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. In Automotive Technology, students gain knowledge and skills in the repair, maintenance, and diagnosis 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 the theory of operation of automotive vehicle systems and associated repair practices.

**Advanced Automotive Technology - 8534**  
**Credit: 2, Full Year**      **Grade: 11-12**  
**Prerequisites:** *Principles of Transportation, Distribution, and Logistics, and Automotive Technology. All students must attend classes at CHS. Bus transportation from SVHS and CLHS will be provided.*

Automotive services include advanced knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. In Advanced Automotive Technology, students gain knowledge and skills in the repair, maintenance, and diagnosis 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 the theory of operation of automotive vehicle systems and associated repair practices.

**Practicum in Transportation, Distribution and Logistics - 8514**  
**Credit: 3, Full Year**      **Grade: 12**  
**Prerequisites:** *Fee Skills USA/ personal transportation required to work site/Application and Teacher Approval.*

Students will be assigned to a Dealership or Approved Independent Repair. This is an on the job training program for high school students who are interested in a career related to the Automotive field. Students will work in a paid or unpaid position during the duration of the program. Students must provide their own transportation. The classroom instruction reinforces self awareness, occupational skills, technology skills, effective time management and an emphasis on skills necessary to be successful in the automotive field. Students will complete AYES work journals and a portfolio. Students are required to work a minimum of 15 hours a week Monday through Friday, be 16 years of age and work in an approved training site. *Offered at CHS.*

## Law, Public Safety, Corrections & Security Cluster

**Principles of Law, Public Safety, Corrections and Security - 8564**

**Credit: 1/2, Semester**

**Grade: 9-12**

**Prerequisites:** *None*

Have you ever considered a career as a police officer, firefighter or judge? Come explore the possibilities of the criminal justice system. This course is an overview of the various professions in the field of public safety. The students will explore the various opportunities and requirements of professions in the law enforcement industry. Students will participate in some hands on activities that will allow them to experience various aspects of the public safety professions.



**Correctional Services - 8914**

**Credit: 1, Full Year**

**Grade: 10-12**

A course designed to give students an understanding of the correctional system in the criminal justice system. The course instruction will include requirements for employment in the correctional and security industry. Students will identify and research current issues facing the criminal justice system's prison and jail populations. The student will analyze rehabilitation and alternatives to institutionalizing. Hands on activities will provide the students the ability to utilize proper inmate control and booking procedures. Students will have a basic understanding of the various levels of law in Texas and the requirements and procedures of arrest and confinement. Come explore inmate life and the responsibilities of criminal justice system. *Offered at SVHS.*

**Forensic Science - 9244**

**Credit: 1, Full Year**

**Grade: 10-12**

**Prerequisite:** *Beginning 2011-2012, this course will satisfy the 4<sup>th</sup> year of science credit*

Forensic science is a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the

psychology of criminalist behavior. Students will learn basic terminology and investigative procedures related to crime scene, question building, interviewing, criminal behavior characteristics, truth detection methodology, and scientific procedures used to solve crimes. Students will have the opportunity to collect and analyze evidence through case studies and mock crime scenes. Lab activities will be based on crime scene scenarios and analyzing fingerprints, ballistics, and blood spatter. Students will learn about the history, legal aspects of forensic science, and career options available in the forensic field.

### **Fire Fighter I - 9254**

**Credit: 1, Full Year**

**Grade: 11-12**

**Prerequisite: None**

The Fire Fighter I introduces students to firefighter safety and development. Students will understand Texas Commission on Fire Protection (TCFP) rules and regulations, proper incident reporting and records, the proper use of personal protective equipment, and the principles of fire science. The instructor uses both academic study and applied instruction to achieve measureable results. Students participate in structured, applied learning activities. Students in the course may work towards certification in Fire Science. *Offered at CHS and SVHS.*

### **Law Enforcement I - 8904**

**Credit: 1, Full Year**

**Grade: 9-12**

**Prerequisites: None**

This course will provide a general overview of current law enforcement procedures, communication skills, criminal law, law enforcement terminology, traffic stops, basic field notes and police incident report writing; and basic crime scene procedures. The course will also include an overview of the history, organization and functions of local, state, and federal law enforcement. This class will involve hands-on training with equipment commonly used in the field of law enforcement.

### **Law Enforcement II - 8924**

**Credit: 1, Full Year**

**Grade: 10-12**

**Prerequisites: Law Enforcement I**

This course will provide knowledge and skills necessary to prepare for a career in law enforcement. The study of common police procedures telecommunications, advanced field note taking and report writing; use of force; arrest procedures; search and pat down procedures; crowd control; accident investigations felony traffic stops; courtroom testimony. The course will also

include the ethical and legal responsibilities of law enforcement officers. This course will include role playing and hands on learning with commonly used law enforcement equipment.

### **Security Services - 8494**

**Credit: 1/2, Semester**

**Grade: 9-12**

**Prerequisites: None**

A course designed to give students an understanding of patrol procedures, communication systems, apprehension and detention requirements and tools utilized in the law enforcement /security profession. Students will understand basic crime scene investigation and demonstrate the ability to provide oral and written reports. This class involves hands – on training with equipment commonly used in the profession of protective services.

### **Court Systems and Practices - 8714**

**Credit: 1, Full Year**

**Grade: 10-12**

**Prerequisites: Law Enforcement I recommended**

This course will allow the student to study the structure of the American criminal justice system; prosecution; defense; right to counsel; pretrial release; grand jury; adjudication process; rules of evidence; plea bargains; landmark case law and the relationship of law enforcement and corrections to our court system. Students will also participate in mock trials, debates and other activities related to criminal justice. *Offered at CHS and SVHS.*

## **Earning College Credit in Career and Technology Education**

### **The Advanced Technical Credit Program**

**(Statewide Articulation)** is an advanced placement program initiated to provide a method for high school students who continue technical programs of study in college to receive credit for knowledge and skills without duplication of coursework. Students successfully demonstrating college level competence in content enhanced high school courses are eligible to receive banked (in escrow) credit for courses that are part of an associate of applied science (AAS) degree or certificate plan offered by public two-year colleges. Some universities may also honor these courses, particularly those that offer BAAS, BAT, BSIS, or similar baccalaureate degrees.

### **Local Articulation options (TECH PREP)-**

provide high school students options for award of

articulated credit for high school or college courses not covered by the Advanced Technical Credit Program (Statewide Articulation) and the method to articulate courses and programs with colleges not participating in the ATC program. Conditions for award of credit for courses that are part of an associate of applied sciences (AAS) degree plan are described in locally developed articulation agreements. Some universities may also honor these courses.