



# Aledo High School

## Career And Technical Courses



Mary Smith, CTE Coordinator

[mesmith@aledoisd.org](mailto:mesmith@aledoisd.org)

*All CTE Courses are subject to student enrollment.*

**Agriculture, Food and Natural Resources**  
**(Business & Industry Endorsement)**

**8000 Principles of Agriculture, Food and Natural Resources**

**Grade Level: 9-12**

**Prerequisite: None**

**Semesters: 2**

**Credit: 1.0**

This introductory course emphasizes the importance of the Agricultural industry and how it influences each of our daily lives. Career development, historical, current, and future significance of the agricultural industry, leadership skills, food and fiber, communication skills, agricultural research methods, breeds of livestock, livestock selection and evaluation, plant growth, soil fertility testing, soil conservation, and basic woodworking are all topics covered in the class.

**8001 Livestock Production**

**Grade Level: 10-12**

**Prerequisite: None**

**Semesters: 2**

**Credit: 1.0**

This course is designed to prepare students for careers in the field of animal science. Students will acquire knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Students will learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. Animal species to be addressed in this course may include, but are not limited to, beef cattle, dairy cattle, swine, sheep, goats, and poultry.

**8002 Small Animal Management**

**Grade Level: 10-12**

**Prerequisite: None**

**Semesters: 2**

**Credit: 1.0**

This course prepares students for careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems.

**8003 Equine Science**

**Grade Level: 10-12**

**Prerequisite: None**

**Semesters: 1**

**Credit: .5**

This course designed to develop knowledge and skills pertaining to the selection, nutrition, reproduction, health and management of horses.

**8004 Veterinary Medical Applications ~ *NEW Course***

**Grade Level: 11-12**

**Prerequisite: None**

**Semesters: 2**

**Credit: 1.0**

Topics covered in this course include, but are not limited to, veterinary practices as they relate to both large and small animal species.

**8006 Agribusiness Management & Marketing**

**Grade Level: 11-12**

**Prerequisite: None**

**Semesters: 2**

**Credit: 1.0**

To assist students for careers in agribusiness systems, this course provides 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.

**8009 Food Technology and Safety ~ *NEW Course***

**Grade Level: 10-12**

**Prerequisite: None**

**Semesters: 1**

**Credit: .5**

This course examines the food technology industry as it relates to food production, handling, and safety. To be prepared for career in value-added and food processing systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to value-added and food processing and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

**8010 Wildlife Fisheries & Ecology Management ~ *NEW Course***

**Grade Level: 10-12**

**Prerequisite: None**

**Semesters: 1**

**Credit: .5**

This course examines the management of game and non-game wildlife species, fish, and aqua crops and their ecological needs as related to current agricultural practices.

### **8015 Agricultural Mechanics and Metal Technologies**

**Grade Level: 10-12**

**Semesters: 2**

**Prerequisite: None**

**Credit: 1.0**

Students who enjoy mechanics and not only working with their minds but also with their hands will enjoy this class. Shop safety, the use of hand tools, woodworking with power tools & equipment, cold metal work & hot metal work including use of the forge, oxy-acetylene torch, plasma arc cutter, and arc & MIG welding will be areas of instruction in this class.

### **8016 Agricultural Facilities and Fabrication**

**Grade Level: 11-12**

**Semesters: 2**

**Prerequisite: None**

**Credit: 1.0**

This year long course focuses on advanced oxy-fuel cutting and gas, arc & MIG welding. Other areas of instruction will include concrete, safe electrical power use, building planning, and surveying.

### **8017 Agricultural Power Systems ~ *NEW Course***

**Grade Level: 11-12**

**Semesters: 2**

**Prerequisite: None**

**Credit: 1.0**

This course focuses on oxy-fuel and electric cutting and welding; electricity; building planning construction; and small engine, equipment, and machinery maintenance and repair.

## **Architecture and Construction** **Business & Industry Endorsement**

### **8100 Principles of Architecture and Construction Technology**

**Grade Level: 9-12**

**Semesters: 2**

**Prerequisite: None**

**Credit: 1.0**

Principles of Architecture and Construction Technology provides an overview to the various fields of architecture, construction science, and construction technology. Safety and career opportunities are included, and job-related study in the classroom such as communications; problem solving and critical thinking; Information Technology Applications; systems; safety, health, and environmental; leadership and teamwork; ethics and legal responsibilities; employability and career development; technical skills; introduction to hand tools; introduction to power tools; basic rigging; and reading technical drawings.

### **8101 Interior Design**

**Grade Level: 10-12**

**Semesters: 2**

**Prerequisite: None**

**Credit: 1.0**

This laboratory course provides students with knowledge and skills related to interior and exterior design environments, elements and principles of art and design, color fundamentals, space planning and furniture arrangement. The first semester focuses on the management of family housing needs, types of housing, buying and renting of housing, home safety, space design, basic housing construction features, and landscape design. The second semester focuses on designing floor plans, planning for lighting, wall, window, and floor treatments and preparing a final presentation board. Students interested in a career in Interior Design or in their own home design will want to sign up for this course.

An outside project (Career Connection) will be required for the course.

### **8104 Architectural Design ~ *NEW Course***

**Grade Level: 10-12**

**Semesters: 2**

**Prerequisite: Principles of Arch & Construction or Teacher Approval**

**Credit: 1.0**

A technical course in principles of residential design, architectural styles and construction practices. Activities focus on the development of original working drawings, presentation drawings and model building. This course is taught with computerized equipment.

**Arts, A/V Technology & Communication**  
**(Business & Industry Endorsement)**

**8200 Principles of Audio/Video Production ~ *NEW Course***

**Grade Level: 10-12**

**Prerequisite: None**

Students will learn the technology to create and manage professional-level video presentations. Pre-production planning (script-writing, storyboarding, shot preparation, and tools), production (cameras, lighting, sets, and direction), and post-production (editing, master creation, and delivery) will be emphasized using short documentaries and exercises as the basis for mastery.

**Semesters: 2**

**Credit: 1.0**

**8201 Animation ~ *NEW Course***

**Grade Level: 11-12**

**Prerequisite: Art or Digital Interactive Media or Teacher Approval**

Careers in animation span all aspects of motion graphics. Within this context, 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 history and techniques of the animation industry.

**Semesters: 2**

**Credit: 1.0**

**8204 Graphic Design and Illustration~ *NEW Course***

**Grade Level: 11-12**

**Prerequisite: Digital Interactive Media or Teacher Approval**

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 fundamental elements and principles of visual art and design.

**Semesters: 2**

**Credit: 1.0**

**8206 Fashion Design**

**Grade Level: 10-12**

**Prerequisite: None**

A course for students interested in fashion design or fashion merchandising. This laboratory course offers current information on fashion trends and design elements, figure and wardrobe analysis, apparel labels, and care and maintenance of clothing. Students will participate in hands-on activities focusing on sewing machine operation and care, sewing equipment, clothing construction (sewing) and alterations. This course will address the textile and apparel industry, and the design and production of merchandise. Hands-on activities include identifying fibers and fabrics, product-marketing techniques, printing and dyeing fabrics and creating apparel designs. An outside project (Career Connection) will be required for this course.

**Semesters: 2**

**Credit: 1.0**

**8208 Professional Communications - *Required Course for Speech Credit***

**Grade Level: 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.

**Semesters: 1**

**Credit: .5**

**Advanced Audio/Video Production - *Future Course- Coming Soon***

**Grade Level: 12**

**Prerequisite: Principles of A/V**

In addition to developing advanced 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 pre-production, production, and post-production audio and video activities.

**Semesters: 2**

**Credit: 1.0**

**Advanced Animation – *Future Course- Coming Soon***

**Grade Level: 12**

**Prerequisite: Animation**

Careers in animation span all aspects of motion graphics. Within this context, in addition to developing technical knowledge and skills

**Semesters: 2**

**Credit: 1.0**

needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to create two- and three-dimensional animations.

**Advanced Graphic Design and Illustration- *Future Course – Coming Soon***

**Grade Level: 12**

**Semesters: 2**

**Prerequisite: Graphic Design**

**Credit: 1.0**

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. 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.

***Business Management and Administration*  
***(Business & Industry Endorsement)*****

**8300 Principles of Business, Marketing and Finance**

**Grade Level: 9-12**

**Semesters: 1**

**Prerequisite: None**

**Credit: .5**

Principles of Business, Marketing and Finance is an introductory course where students will gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students will learn about personal budgeting and finance.

**8302 Business Information Management I**

**Grade Level: 9-12**

**Semesters: 2**

**Prerequisite: None**

**Credit: 1.0**

A course designed to improve keyboarding proficiency while learning word processing software applications with Microsoft Word. Documents such as letters, memos, tables, reports, and resumes are produced. The first semester includes an introduction to database management software using Microsoft Access. The second semester covers desktop publishing concepts, spreadsheet technology using MS EXCEL and presentation principles using MS PowerPoint. **Certification tests are optional at the conclusion of this course.**

**8303 Business Information Management II**

**Grade Level: 10-12**

**Semesters: 2**

**Prerequisite: BIM I**

**Credit: 1.0**

Students will apply previously learned computer skills introduced in BUSIM I to develop advanced features of Microsoft Office 2010 software. All students will be offered the opportunity to take MOS Certification tests in Word, Excel, Access and Power Point. Several colleges are now requiring these tests in order to apply to their School of Business and/or is a distinct advantage when applying for jobs. These tests are offered free to the students.

**8305 Business Law**

**Grade Level: 10-12**

**Semesters: 1**

**Prerequisite: None**

**Credit: 0.5**

Identify legal terms as well as the rights and responsibilities of individuals by studying laws for minors, families, and consumers. Areas include bankruptcy laws, contracts, and ownership of property, buying on credit, insurance protection, and borrowing money. Discuss employment contracts and employment opportunities. Differentiate between civil and criminal lawsuits.

**8308 Business Management ~ *NEW Course***

**Grade Level: 11-12**

**Semesters: 2**

**Prerequisite: None**

**Credit: 1.0**

This course will allow students to analyze the primary functions of management and leadership, which are planning, organizing, staffing, directing or leading, and controlling. Students will develop a foundation in the economical, financial, technological, international, social, and ethical aspects of business to become competent managers, employees, and entrepreneurs.

**Education and Training ~NEW Career Cluster**  
**(Public Service Endorsement)**

**8400 Principles of Education and Training ~ *NEW Course***

**Grade Level:** 9-12

**Prerequisite:** None

Students are introduced to careers available within the education and training career cluster, such as teaching, coaching, director, trainer, educational counseling, and educational administration. Students will create an educational/career plan for working within this career cluster and will begin building a career portfolio that will be developed throughout the education and training course path.

**Semesters:** 1

**Credit:** .5

**8402 Instructional Practices in Education and Training ~ *NEW Course***

**Grade Level:** 10-12

**Prerequisite:** None

Students will develop knowledge, skills, and experiences needed to work within the education and training career cluster. These may include child development theories, learning activities, program management, curriculum planning, teaching and leadership. Students gain field experience once a month at cooperative schools during assigned class time; placement rotations are utilized to allow students to have experiences in a full range of education career roles, grade levels, subject areas and ability groups. Students continue to build a career portfolio that will be developed throughout the education and training course path.

**Semesters:** 2

**Credit:** 1.0

**8403 Practicum in Education and Training ~ *Future Course***

**Grade Level:** 11- 12

**Prerequisite:** Application Process

Students are assigned to a field-based internship which provides students with the opportunity to apply the knowledge and skills learned in previous courses in an assigned elementary/middle school classroom. Students will plan and direct student instruction as well work cohesively with assigned teacher four days a week. Students continue to build a career portfolio that will be developed throughout the education and training course path. Uniform fee may apply of no more than \$25.00.

**Semesters:** 2

**Credit:** 1.0

**8704 Counseling and Mental Health ~ *NEW Course***

**Grade Level:** 10-12

**Prerequisite:** None

This course is designed for students to model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Course content includes a focus on career opportunities in counseling and mental health, effective communication techniques, characteristics of various mental illnesses, and use of technology in the profession. Students are expected to apply knowledge of ethical and legal responsibilities, limitations, and the implication of their actions.

**Semesters:** 2

**Credit:** 1.0

**Human Growth and Development - *Future Course – Coming Soon***

**Grade Level:** 10-12

**Prerequisite:** None

Human Growth and Development is an examination of human development across the lifespan with emphasis upon research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones.

**Semesters:** 2

**Credit:** 1.0

**Finance**  
**(Business & Industry Endorsement)**

**8300 Principles of Business, Marketing and Finance**

**Grade Level:** 9-12

**Prerequisite:** None

Principles of Business, Marketing and Finance is an introductory course where students will gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students will learn about personal budgeting and finance.

**Semesters:** 1

**Credit:** .5

**8320 Money Matters****Grade Level: 10-12****Prerequisite: None****Semesters: 1****Credit: 0.5**

Students will investigate global economics with emphasis on the free enterprise system and its impact on consumers and businesses. Students apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to set long-term financial goals based on those options. Students will determine methods of achieving long-term financial goals through investment, tax planning, asset allocation, risk management, retirement planning, and estate planning.

**8321 Banking and Financial Services****Grade Level: 10-12****Prerequisite: None****Semesters: 1****Credit: 0.5**

Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. 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.

**8322 Accounting I****Grade Level: 10-12****Prerequisite: None****Semesters: 2****Credit: 1.0**

Accounting—the “language of business”! This course is essential for all college-bound business majors. Using double-entry accounting procedures, learn how to keep books for your own business and how to prepare financial reports. Learn payroll and banking and other specialized accounting procedures. **Includes content beyond the Texas Essential Knowledge and Skills equivalent to courses taught at community and technical colleges. Make college accounting easier!**

**8323 Accounting II****Grade Level: 11-12****Prerequisite: Accounting I****Semesters: 2****Credit: 1.0**

Designed for students interested in studying accounting at the post-secondary level or entering the workforce. Examines formation and dissolution of partnerships, corporate organization, investments and distribution of earnings, inventory control, budgets, and analyzing accounting information. Looks at interpreting and synthesizing managerial problems using accounting information as a tool.

**Health Science**  
**(Public Service Endorsement)**

**8500 Principles of Health Science ~ *NEW Course* (May Count for Health credit)****Grade Level: 9-12****Prerequisite: None****Semesters: 2****Credit: 1.0**

This course is designed to develop health care specific knowledge and skills in effective communications, ethical and legal responsibilities, client care, safety, first aid and CPR. This course prepares the student for the transition to clinical or work based experiences in the health care field. Full year completion satisfies the state graduation credit for health. The CPR card will cost the student approximately \$5.00.

**8501 Medical Terminology ~ *NEW Course*****Grade Level: 10-12****Prerequisite: None****Semesters: 1****Credit: 0.5**

Medical Terminology is a course designed to develop a working knowledge of the language of medicine. Students acquire word-building skills by learning prefixes, suffixes, roots and abbreviations. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student’s ability to successfully secure employment or pursue advanced education in health care.



## 8502 Health Science / Clinical Rotation ~ *NEW Course*

**Grade Level:** 11-12

**Semesters:** 2

**Prerequisite:** None

**Credit:** 1.0

This course is designed to continue the student's exploration in the health science field through hands on application to include problem solving, mathematical conversions and medical terminology communication. Students will visit different medical offices in the area. Examples: Doctors office, Dentist office, Vet Clinic etc.

**Students will have a background check before starting clinicals. Students will be required to show proof of a physical within the last year. Student shot records must be up to date including TB Booster shot.**

**There are 3 OPTIONS for PRACTICUM: ~ *NEW Course***

### **Practicum in Health Science ~ *NEW COURSE***

#### *Option 1*

#### **8503 Practicum in Health Science / Certified Nursing Assistant**

**Grade Level:** 12

**Semesters:** 2

**Prerequisite:** None

**Credit:** 1.0

Practicum is an occupationally specific course 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. The course will be taught as an occupationally specific course with clinical training. **Students will have a background check before starting clinicals. Students will be required to show proof of a physical within the last year. Student shot records must be up to date including TB Booster shot. Students will pay the fee to take the state examination test.**

#### *Option 2*

#### **8504 Practicum in Health Science / Sports Medicine**

**DISTRICT #:** 13020500 **Grade Placement:** 11-12

**Prerequisite:** Principles of Health Science

**Credit:** 2

**Site:** AHS

Practicum is an occupationally specific course 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. The course will be taught as an occupationally specific course with clinical training. **Students will have a background check before starting clinicals. Students will be required to show proof of a physical within the last year. Student shot records must be up to date including TB Booster shot. Students will pay the fee to take the state examination test.**

#### *Option 3*

#### **8505 Practicum in Health Science / Pharmacy Tech.**

**Grade Level:** 12

**Semesters:** 2

**Prerequisite:** None

**Credit:** 1.0

Practicum is an occupationally specific course 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. The course will be taught as an occupationally specific course with clinical training. **Students will have a background check before starting clinicals. Students will be required to show proof of a physical within the last year. Student shot records must be up to date including TB Booster shot. Students will pay the fee to take the state examination test.**

#### **8511 Anatomy and Physiology**

**Grade Level:** 11-12

**Semesters:** 2

**Prerequisite:** None

**Credit:** 1.0

Anatomy and Physiology is a comprehensive study of the structures and functions of the human body. This course will include dissections and the study of the organization of organs and organ systems. Students will utilize critical thinking skills and scientific problem solving as they conduct lab investigations. To receive science credit, students must meet a 40% laboratory and field work requirement. – **Counts as a science credit.**

#### **Medical Microbiology - Future Course – Coming Soon**

**Grade Level:** 11-12

**Semesters:** 1

**Prerequisite:** None

**Credit:** 0.5

This science elective course is designed to explore medical based microbiology. The student will discover relationships between microbes and health maintenance as well as the role of microbes in infectious diseases. To receive science credit, students must meet a 40% laboratory and field work requirement.



**Pathophysiology - Future Course – Coming Soon**

**Grade Level: 11-12**

**Semesters: 1**

**Prerequisite: None**

**Credit: 0.5**

In this course students conduct laboratory investigations and fieldwork, use scientific methods, and make informed decisions using critical thinking and problem solving. Students study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of diseases. Students will differentiate between normal and abnormal physiology. The course must include at least 40% laboratory investigation and field work using appropriate scientific inquiry.

**\* Students may fulfill their 4th science requirement by taking both Medical Microbiology and Pathophysiology.**

**Hospitality and Tourism**  
**(Business & Industry Endorsement)**

**8600 Principles of Hospitality ~ *NEW Course***

**Grade Level: 10-12**

**Semesters: 1**

**Prerequisite: None**

**Credit: 0.5**

The hospitality and culinary arts industry maintains the largest national employment base in the private sector. In this course students will explore the many career opportunities in this field and gain introductory knowledge and skills needed to function effectively in various positions in this multifaceted industry.

**8703 Lifetime Nutrition**

**Grade Level: 10-12**

**Semesters: 2**

**Prerequisite: None**

**Credit: 1.0**

This technical laboratory course provides students with hands-on activities focusing on kitchen organization, safety and tools, nutrition information, table setting and etiquette, meal management, and numerous laboratory experiences. This course will also focus on wellness, changes that affect food quality, preserving nutrients in foods, being wise consumers, food and fitness trends, and global concerns.

**8603 Culinary Arts ~ *Future Course***

**Grade Level: 11-12**

**Semesters: 2**

**Prerequisite: Lifetime Nutrition or Teacher Approval**

**Credit: 1.0**

This course 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, a Texas culinary specialist certification or any other appropriate industry certification.

**Human Services**  
**(Public Service Endorsement)**

**8700 Principles of Human Services**

**Grade Level: 10-12**

**Semesters: 1**

**Prerequisite: None**

**Credit: 0.5**

Students will be provided with basic knowledge and skills in decision-making, consumer and resource management, housing needs, kitchen safety, tools and techniques, basic nutrition, etiquette, food preparation, personal development, family relationships, child development, clothing decisions, basic sewing techniques, and information about clothing care.

**8702 Interpersonal Studies**

**Grade Level: 10-12**

**Semesters: 1**

**Prerequisite: None**

**Credit: 0.5**

This is a semester course which encourages students to become actively involved in their own learning, thus providing them with a multitude of ways to become successful in their daily lives. Topics focus on developing decision-making and communication skills, developing healthy relationships with family, friends, dating and marriage partners, budgeting, becoming independent, and managing daily stress. A great discussion-based class that encourages basic skills needed for success!

**8703 Lifetime Nutrition****Grade Level: 10-12****Semesters: 2****Prerequisite: None****Credit: 1.0**

This technical laboratory course provides students with hands-on activities focusing on kitchen organization, safety and tools, nutrition information, table setting and etiquette, meal management, and numerous laboratory experiences. This course will also focus on wellness, changes that affect food quality, preserving nutrients in foods, being wise consumers, food and fitness trends, and global concerns.

**8704 Counseling and Mental Health ~ *NEW Course*****Grade Level: 11-12****Semesters: 2****Prerequisite: None****Credit: 1.0**

This course is designed for students to model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Course content includes a focus on career opportunities in counseling and mental health, effective communication techniques, characteristics of various mental illnesses, and use of technology in the profession. Students are expected to apply knowledge of ethical and legal responsibilities, limitations, and the implication of their actions.

**8705 Child Development****Grade Level: 10-12****Semesters: 1****Prerequisite: None****Credit: 0.5**

A semester course that focuses on the development of children from birth through the school age years. Students will have hands-on experiences with children from each age group as well as caring for "Baby Think It Over." Course content includes birth defects, health and safety, play and toys, children's food, and discipline and guidance. An outside project (Career Connection) will be required for this course.

**8706 Child Guidance****Grade Level: 11-12****Semesters: 2****Prerequisite: None****Credit: 2.0**

A 2-period laboratory course that provides on-site training for students interested in a teaching career or working in the childcare field. Students will spend the first semester assisting in the classrooms of a local day-care center and the second semester practice teaching at the elementary schools. Course content includes information on day-care management, child growth and development, guidance techniques, curriculum development and implementation, and children's health and nutrition. Students can receive Continuing Education Credits from Weatherford College with the successful completion of the course and agreement with a participating community college. Transportation will be provided.

**8707 Family and Community Services****Grade Level: 10-12****Semesters: 1****Prerequisite: None****Credit: 0.5**

This laboratory-based course is designed to involve students in realistic and meaningful community-based activities through direct service experiences. Students are provided opportunities to interact and provide services to individuals, families, and the community through community and volunteer services. Emphasis is placed on developing and enhancing organizational and leadership skills and characteristics. Students are encouraged to participate in extended learning experiences such as career and technical student organizations or other leadership or extracurricular organizations.

**8710 Cosmetology I - (TWO YEAR COURSE)**

**Grade Level: 11**

**Prerequisite: None**

**Site: Weatherford High School**

See description below ~

**Semesters: 2 –**

**Credit: 3.0**

**8711 Cosmetology II**

**Grade Level: 12**

**Prerequisite: None**

**Site: Weatherford High School**

**Semesters: 2**

**Credit: 3.0**

**This two-year program** provides students with job specific training for entry-level employment in cosmetology careers. It includes sterilization and sanitation processes, shampooing and rinsing hair, application of conditioning creams and color rinses, application of scalp and hair treatments, shaping and thinning hair, hairstyling, permanent waving, hair coloring, manicuring, facial massage, facial makeup, entrepreneurship, safety, leadership and career opportunities. In the second year this program continues with information and skills necessary to prepare for the Texas State Licensing Board of Cosmetology exam. **The cost of this program changes from year to year please see your CTE Coordinator for more details.**

**Information Technology**  
**(Business & Industry Endorsement)**

**8800 Principles of Information Technology ~ New Course**

**Grade Level: 9-12**

**Prerequisite: None**

**Semesters: 1**

**Credit: 0.5**

In this course students will 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.

**8804 Digital and Interactive Media**

**Grade Level: 10-12**

**Prerequisite: None**

**Semesters: 2**

**Credit: 1.0**

Students will learn about the hardware and software necessary to produce multimedia presentations and understand the copyright laws that apply. Students learn how color theory and design principles apply to multimedia presentations. They will create, edit and manipulate text, graphics, sound and animations in a variety of multimedia projects. Students will create original multimedia graphics and Flash animations. Course may include multimedia application opportunities within the school community.

**8805 Web Technologies**

**Grade Level: 10-12**

**Prerequisite: None**

**Semesters: 2**

**Credit: 1.0**

Students will use logical thinking skills to plan and design a variety of web sites. Students learn how color theory and design principles apply to web design. Students will learn to build and develop standards based websites using W3C XHTML, CSS and Dreamweaver software. Students will learn web design principles and Internet laws and ethics. Students will learn how to work with a variety of digital images and animations for the web.

**Law, Public Safety, Corrections, and Security ~ NEW Career Cluster**  
**(Public Service Endorsement)**

**8900 Principles of Law, Public Safety, Corrections, and Security ~ NEW Course**

**Grade Level: 9-12**

**Prerequisite: None**

**Semesters: 1**

**Credit: 0.5**

The students will be introduced to professions in law enforcement, security, corrections, and fire 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 and knowledge, such as ethics, origins of law, constitutionality, jurisdiction, courtroom procedures, and responsibilities of first responders, necessary for careers in law enforcement, fire service, security, and corrections.

**8901 Law Enforcement 1 ~ NEW Course****Grade Level: 11-12****Prerequisite: None****Semesters: 2****Credit: 1.0**

This course is an overview of the history, organization, and functions of local, state and federal law enforcement. This course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, and classification and elements of crime.

**8903 Forensic Science– Law ~NEW Course****Grade Level: 11-12****Prerequisite: None****Semesters: 2****Credit: 1.0**

Forensic Science is a course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes.

**Students may fulfill their 4th science requirement by taking Forensic Science**

**8907 Firefighter 1 ~ NEW Course****Grade Level: 11-12****Prerequisite: Weatherford College admission requirements****Semesters: 2****Credit: 1.0**

This course is an online course through Weatherford College that introduces students to firefighter safety and development. Student will analyze the Texas Commission on Fire Protection rules and regulation, proper incident reporting and records, proper use of personal protections equipment, and the principles of fire safety.

**Court Systems and Practices - Future Course – Coming Soon****Grade Level: 12****Prerequisite: None****Semesters: 2****Credit: 1.0**

This course is an overview of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on constitutional laws for criminal procedures such as search and seizure, stop and frisk, and interrogation. Students will be taught the skills needed for receiving the dispatch certification it will be up the student to test.

**Law Enforcement II - Future Course – Coming Soon****Grade Level: 12****Prerequisite: None****Semesters: 2****Credit: 1.0**

Students will be taught the knowledge and skills necessary to prepare for a career in law enforcement. This course includes the ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony. Students will be taught the skills needed for receiving the dispatch certification it will be up the student to test.

**Manufacturing****(Business & Industry Endorsement)****9001 Welding****Grade Level: 10-12****Prerequisite: None****Semesters: 2****Credit: 1.0**

Rapid advances in technology have created new career opportunities and demands in many industries. Welding provides the knowledge, skills, and technologies required for employment in metal technology systems. Students 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.

**9002 Advanced Welding ~ NEW Course**

**Grade Level: 11-12**

**Prerequisite: Welding I**

**Semesters: 2**

**Credit: 1.0**

Advanced Welding builds on knowledge and skills developed in welding. Students will develop advanced welding concepts and skills as they relate to personal and career development. This course supports integration of academic and technical knowledge and skills.

**Principles of Manufacturing - Future Course- Coming Soon**

**Grade Level: 9-12**

**Prerequisite: None**

**Semesters: 1**

**Credit: .5**

The students will gain introductory knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. The study of manufacturing technology allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting.

**Manufacturing Engineering - Future Course -Coming Soon**

**Grade Level: 11-12**

**Prerequisite: None**

**Semesters: 2**

**Credit: 1.0**

The students will gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. Knowledge and skills in the proper application of Manufacturing Engineering, the design of technology, efficient manufacturing technology, and the assessment of the effects of production technology prepare students for success in the global economy.

**Marketing**  
**(Business & Industry Endorsement)**

**8300 Principles of Business, Marketing and Finance**

**Grade Level: 9-12**

**Prerequisite: None**

**Semesters: 1**

**Credit: .5**

Principles is an introductory course where students will gain knowledge and skills in economics and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students will learn about personal budgeting and finance.

**8351 Entrepreneurship ~ NEW Course**

**Grade Level: 10-12**

**Prerequisite: None**

**Semesters: 2**

**Credit: 1.0**

Students in entrepreneurship will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, using research, and promoting the business.

**8352 Sports and Entertainment ~ NEW Course**

**Grade Level: 10-12**

**Prerequisite: None**

**Semesters: 1**

**Credit: .5**

This course will cover basic marketing, target marketing, and segmentation, sponsorship, event marketing, promotions, sponsorship proposals, and implementation of sports and entertainment marketing plans.

**Science, Technology, Engineering and Mathematics (STEM)**  
**(STEM Endorsement)**

**9100 Concepts of Engineering and Technology**

**Grade Level: 10-12**

**Prerequisite: None**

Students will be introduced to the engineering method, use of matrices for design decisions, segmentation, problem solving techniques, and design skills. These concepts will be synthesized along with many fields involving the laws of nature, mathematics, economics, management, and communications into a final project. Engineering principles of analysis, experimentation, and design are applied to a real problem, from initial concept to final recommendations. The project results are evaluated in terms of technical and economic feasibility, and social significance. Emphasis is placed on university preparation.

**Semesters: 1**

**Credit: .5**

**9102 Engineering Design and Presentation –Future Course – Coming Soon**

**Grade Level: 10-12**

**Prerequisite: None**

This course provides the students the opportunity to master computer software applications in a variety of engineering and technical fields. They will develop job specific skills for entry-level employment in engineering careers or to use in continuing education. This course will further develop the process of engineering thought and application design process.

**Semesters: 2**

**Credit: 1.0**

**9107 Robotics I**

**Grade Level: 10-12**

**Prerequisite: None**

Students enrolled in this course will demonstrate knowledge and skills necessary for the robotic and automation industry. Through implementation of the design process, students will transfer advanced academic skills to component designs in a project-based environment. Students will build prototypes or use simulation software to test their design. Additionally, students will explore career opportunities, employer expectations, and education needs in the robotic and automation industry.

**Semesters: 2**

**Credit: 1.0**

**Transportation, Distribution, and Logistics**  
**(Business & Industry Endorsement)**

**9200 Automotive Technology - @ Weatherford High School**

**Grade Level: 11-12**

**Prerequisite: None**

**Site: Weatherford High School**

Automotive technology includes knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. Students gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. **Transportation will be provided.**

**Semesters: 2**

**Credit: 2.0**

**9201 Advanced Automotive Technology - @ Weatherford High School -**

**Grade Level: 12**

**Prerequisite: Automotive I**

**Site: Weatherford High School**

Advanced automotive technology includes advanced knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. Students gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. **Transportation will be provided.**

**Semesters: 2**

**Credit: 2.0**

**9202 Small Engine - @ Weatherford High School**

**Grade Level: 11-12**

**Prerequisite: None**

**Site: Weatherford High School**

This course is designed to provide training for entry-level employment in the small engine technology industry. Engine technology includes knowledge of the function, diagnosis and service of the systems and components of all types of small engines such as lawn mowers, motorcycle, and irrigation engines. Instruction includes the repair and service of cooling, air, fuel, lubricating, electrical, ignition, and mechanical systems and small engine overhauls. In addition, students will receive instruction in safety, academic, and leadership skills as well as career opportunities. **Transportation will be provided.**

**Semesters: 2**

**Credit: 2.0**

## ***Career and Technology Student Organizations – CTSO's***

### **FBLA – Future Business Leaders of America**

Thousands of students across the nation are joining Future Business Leaders of America! FBLA is the premier organization for students preparing for careers in business and the largest student business organization in the world with a quarter of a million members. FBLA prepares students for "real-world" professional experiences. Members gain the competitive edge for college and career success.

### **FFA – Future Farmers of America**

The Texas FFA Organization envisions a future in which all agricultural education students will discover their passion in life and build on that insight to chart the course for their education, career and personal future. FFA makes a positive difference in the lives of students by developing their potential for premier leadership, personal growth and career success through agricultural education.

### **Aledo Robotics-**

Clubs supplement and support the academic mission of the school system and assist students in their growth and development. The AHS Robotics Team assists in promoting the importance of teamwork, effort, goals, and commitment. Our team is highly competitive, but winning is not the primary measure of success. Sportsmanship, gracious professionalism, respect for participants, and dignity in the face of adversity are more important than the outcome of the contest. All team members do not perform at the same level, but all can demonstrate effort, dedication, and fair play.

### **Skills USA- (Future Student Club)**

SkillsUSA serves more than 335,000 students and instructors annually and answers the call of American industry by helping to produce better-prepared employees for the technical workforce. SkillsUSA members have opportunities for more than \$1 million annually in scholarships, contests, awards and honors. Many scholarships are tied to the national SkillsUSA Championships. Each state offers its own awards and scholarships through their state conference.

### **HOSA – Health Occupations Students of America - (Future Student Club)**

A powerful curricular program of student lead activities designed to develop future leaders for the health care system. HOSA participation provides opportunities for students to: develop effective leadership qualities and skills; enhance communication skills; develop critical thinking and problem-solving skills; build self-esteem through individual and group achievement; participate in community service activities; develop character and responsible citizenship traits; set goals for lifelong learning and make realistic career choices; network with health care professionals and peers who have similar goals; and access student scholarship opportunities.

### **NTHS – National Technical Honor Society - (Future Student Club)**

NTHS strives to bring well deserved recognition, scholarship opportunities, and career opportunities to students who excel in one of the 108 career and technical educational fields as their profession. Not only do NTHS students embody all the attributes and talent which is in demand today, these students also embrace a clear vision for tomorrow's workforce and their role in it. NTHS understands changes in industry within local communities and on a global scale.

Questions? Please Contact  
Mary Smith, CTE Coordinator  
[mesmith@aledoisd.org](mailto:mesmith@aledoisd.org)  
817-441-8327 ext. 1246  
(last update January 2015)