



Graduation Plan & Endorsement Selection Guide

Sulphur Springs High School

Graduation Plan & Endorsement Guide

The Sulphur Springs High School Graduation Plan and Endorsement Guide is designed to help students and parents make informed decisions about planning for the future. The information in this guide is a great start to that process!

This guide provides information about the high school graduation requirements and descriptions of each endorsement/program of study. Career and education requirements, local employment needs, and certifications and licensures offered in each career area are also included.

IMPORTANT!

Be sure to contact the Director of College and Career Readiness or a guidance counselor about the important decisions that you will be making.

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Graduation Requirements for Students Entering 9th Grade

The 83rd Texas Legislature passed House Bill 5 into law changing the high school graduation plans for all students who were freshman during the 2014-15 school year and thereafter. The change requires a direct focus on College and Career Readiness and allows flexibility to meet the needs of each individual student. The graduation requirements include:

1. **Achieve mastery of End of Course Exams (EOC)** in: English I, English II, Algebra I, Biology, and U.S. History.
2. **Complete all requirements from the Foundation High School Plan (FHSP)** – Basic course credits that all students must complete.
3. **Complete all requirements for a minimum of one Endorsement** – Additional credits required to pursue college and/or career goals.

Students must declare their preferred Endorsement(s) in writing by the beginning of their 9th grade year. Students may change their Endorsement(s) with parental notification during their 9th grade year or at the beginning of their 10th grade year. By the end of the student’s 10th grade year, no endorsement changes can be made.

Credits Required to Graduate:

Sulphur Springs High School requires students to earn 27 credits on the Foundation High School Plan with an Endorsement:

SSHS Foundation High School Plan with Endorsement	27 Credits
English Language Arts	4
Mathematics	4
Science	4
Social Studies	4
Foreign Language	2
Fine Arts	1
Physical Education	1
Technology	1
Personal Health & Finance (Lifetime Nutrition & Wellness/Dollars & Sense)	1
Electives (4 must satisfy Endorsement curriculum requirements)	5
Total Credits	27

The Texas Education Code, Section 28.025(b), allows a student to graduate under the Foundation High School Program without earning an endorsement if, after the student’s sophomore year, the student and the student’s parent/guardian are notified of the benefits of graduating with an endorsement and the student’s parent/guardian gives written permission for the student to opt out of an endorsement. Under the Foundation High School Plan without an endorsement, students are required to complete 27 credits to graduate.

Personal Graduation Plans (PGP)

Each student must have a four-year Personal Graduation Plan (PGP) created during the spring of 8th grade with the help of his/her guidance counselor. Parent participation is VITAL. Parents should meet with their child's guidance counselor to discuss the plan and are required to approve the plan and their child's Endorsement selection in writing. Each year the PGP will be reviewed with the student.

8th Grade Career Exploration and Endorsement Selection Process

Students will choose their Endorsements after researching personal interests, careers, Endorsement options and long-term career goals in the fall semester during English classes. Guidance counselors will help guide students during the spring semester in ensuring that students have the correct Endorsement based on their career interests and help them plan their four-year graduation plan in Career Cruising.

Career Cruising

Students' four-year Personal Graduation Plans are accessible to students, parents, and guidance counselors. To access Career Cruising, go to www.ssisd.net and select the Campuses link. Choose Sulphur Springs High School. The Career Cruising link is located on the left-hand side of the screen under the "Useful Links". Students will log in with their student email addresses and a password that they created.



Once students have selected their Endorsement(s), guidance counselors will enter their Endorsement selections into Career Cruising. Students can track their progress in completing graduation and Endorsement requirements within the Career Cruising system.

Course Levels

1) STANDARD – This level is NOT weighted. Courses that are considered Standard courses are:

- PSP - Post-Secondary Prep

2) HONORS – This level is weighted at 0.5 above the Standard weight. Courses that are considered Honors courses are:

- CP - College Prep
- DC – Dual Credit
- Concurrent Credit

3) ADVANCED PLACEMENT (AP) – This level is weighted at 1.0 above the Standard weight. Courses that are considered AP will be labeled as such:

- AP – Advanced Placement

Distinguished Level of Achievement & Performance Acknowledgements

Students may earn a **Distinguished Level of Achievement** by successfully completing the following:

- a total of four credits in mathematics, **which must include Algebra II**
- a total of four credits in science
- the remaining curriculum for the Foundation High School Plan
- the curriculum requirements for at least one Endorsement

****A student must earn a Distinguished Level of Achievement to be eligible for top 10% automatic admission.***

A student may earn a **Performance Acknowledgement** on the student's diploma and transcript for outstanding performance in the following areas:

- Earning dual credit
- Exhibiting bilingualism and bi-literacy
- Performing well on the SAT or ACT
- Earning a nationally or internationally recognized certification or licensure.

The details for earning **Performance Acknowledgements** in each area are outlined below:

- In a **dual credit course** by successfully completing:
 1. At least 12 hours of college academic courses, including those taken for dual credit as part of the Texas core curriculum and advanced technical credit courses with a grade of the equivalent of 3.0 or higher on a scale of 4.0 **OR**
 2. Earning an Associate's Degree while in high school.
- In **bilingualism and biliteracy** by demonstrating proficiency in accordance with local school district grading policy in two or more languages by:
 1. Completing all English language arts requirements and maintaining a minimum grade point average (GPA) of the equivalent of 80 on a scale of 100; **AND**
 2. Satisfying one of the following:
 - Completion of a minimum of three credits in the same language in a language other than English with a minimum GPA of the equivalent of 80 on a scale of 100; **OR**
 - Demonstrated proficiency in the Texas Essential Knowledge and Skills for Level IV or higher in a language other than English with a minimum GPA of the equivalent of 80 on a scale of 100; **OR**
 - Completion of at least three credits in foundation subject area courses in a language other than English with a minimum GPA of 80 on a scale of 100; **OR**
 - Demonstrated proficiency in one or more languages other than English through one of the following methods:
 - A score of 3 or higher on a College Board AP exam for a language other than English; **OR**
 - Performance on a national assessment of language proficiency in a language other than English of at least Intermediate High or its equivalent

In addition to meeting the requirements to earn a performance acknowledgement in bilingualism and biliteracy, an English Language Learner must also have:

- Participated in and met the exit criteria for a bilingual or English as a second language (ESL) program; **AND**
- Scored at the Advanced High level on the Texas English Language Proficiency Assessment System (TELPAS)
- On a **College Board Advanced Placement (AP) test** by:
 1. Earning a score of 3 or above.
- On the **PSAT[®], the ACT-PLAN, the SAT[®], or the ACT[®]** by:
 1. Earning a score on the Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT[®]) that qualifies the student for recognition as a commended scholar or higher by the College Board and National Merit Scholarship Corporation, as part of the National Hispanic Recognition Program (NHRP) of the College Board or as part of the National Achievement Scholarship Program of the National Merit Scholarship Corporation
 2. Achieving the college readiness benchmark score on at least two of the four subject tests on the ACT-PLAN[®] examination
 3. Earning a combined critical reading and mathematics score of at least 1250 on the SAT[®]; or
 4. Earning a composite score on the ACT[®] examination of 28 (excluding the writing subscore)
- Earning a **nationally or internationally recognized business or industry certification or license**:

Certifications Currently Offered to Meet Performance Acknowledgement Criteria:	
AAFCS – Education Fund. & Early Childhood Education	Clinical Medical Assistant - CMA
AAFCS – Pre-Professional Certification in Culinary Arts	Emergency Medical Technician - EMT
AAFCS – Pre-Professional Certification in Interior Design Fundamentals	Floral Design Level 1
Adobe Certified Associate – Photoshop, Illustrator, Animate	Microsoft Office Specialist (Word, Excel, Access, PP)
AllDATA Automotive Specialist	Microsoft Expert – Excel & Word
American Welding Society – SENSE Welding	Microsoft Technology Associate - Programming
ASE Automotive Certifications	NCCER Core Level 1
AWS D9.1, D1.1	QuickBooks Certified User
Certified Nurse Assistant - CNA	Texas Beef Quality Assurance
Certified Veterinary Assistant	

Course Selection Guide Worksheet – Foundation High School Plan with Endorsement

Use the following worksheet to select courses for your Foundation High School Plan with Endorsement.

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
<p><i>English Language Arts</i> 4 Credits</p>	<input type="checkbox"/> English I PSP <input type="checkbox"/> English I CP	<input type="checkbox"/> English II PSP <input type="checkbox"/> English II CP	<input type="checkbox"/> English III PSP <input type="checkbox"/> English III CP <input type="checkbox"/> English III AP	<input type="checkbox"/> English IV PSP <input type="checkbox"/> English IV CP <input type="checkbox"/> English IV Dual Credit <input type="checkbox"/> English IV AP
<p><i>Mathematics</i> 4 Credits</p> <p><i>Algebra II satisfies requirement for Distinguished Level of Achievement</i></p>	<input type="checkbox"/> Algebra I PSP <p>For students who earned Algebra I credit in 8th grade:</p> <input type="checkbox"/> Geometry PSP (Prerequisite: Algebra I) <input type="checkbox"/> Geometry CP (Prerequisite: Algebra I)	<input type="checkbox"/> Geometry PSP <input type="checkbox"/> Geometry CP <input type="checkbox"/> Algebra II PSP (Prerequisite Geometry) <input type="checkbox"/> Algebra II CP (Prerequisite Geometry)	<input type="checkbox"/> Algebra II PSP <input type="checkbox"/> Algebra II CP <input type="checkbox"/> Accounting II <input type="checkbox"/> Robotics II <input type="checkbox"/> Financial Mathematics <input type="checkbox"/> Pre-Calculus PSP (Prerequisite Algebra II) <input type="checkbox"/> Pre-Calculus CP (Prerequisite Algebra II)	<input type="checkbox"/> Algebra II PSP <input type="checkbox"/> Algebra II CP <input type="checkbox"/> Pre-Calculus PSP <input type="checkbox"/> Pre-Calculus CP <input type="checkbox"/> AP Computer Science <input type="checkbox"/> AP Calculus <input type="checkbox"/> AP Statistics <input type="checkbox"/> College Algebra/College Statistics
<p><i>Science</i> 4 Credits</p>	<input type="checkbox"/> Integrated Physics & Chemistry PSP <p>Best for students who earned Algebra I credit in 8th grade:</p> <input type="checkbox"/> Biology PSP (Prerequisite Algebra I) <input type="checkbox"/> Biology CP (Prerequisite Algebra I)	<input type="checkbox"/> Biology PSP <input type="checkbox"/> Biology CP <input type="checkbox"/> Chemistry PSP (Prerequisite Biology) <input type="checkbox"/> Chemistry CP (Prerequisite Biology)	<input type="checkbox"/> Chemistry PSP <input type="checkbox"/> Chemistry CP <input type="checkbox"/> AP Chemistry (Prerequisite Chemistry PSP or CP) <input type="checkbox"/> Physics PSP (Prerequisite Chemistry) <input type="checkbox"/> Physics CP (Prerequisite Chemistry) <input type="checkbox"/> Concurrent Biology	<input type="checkbox"/> Physics PSP <input type="checkbox"/> Physics CP <input type="checkbox"/> Advanced Animal Science <input type="checkbox"/> Advanced Plant & Soil <input type="checkbox"/> Anatomy & Physiology CP <input type="checkbox"/> AP Biology <input type="checkbox"/> AP Chemistry <input type="checkbox"/> Concurrent Biology <input type="checkbox"/> Forensic Science

	9 th Grade	10 th Grade	11 th Grade	12 th Grade
<i>Social Studies</i> 4 Credits	<input type="checkbox"/> World Geography PSP <input type="checkbox"/> World Geography CP	<input type="checkbox"/> World History PSP <input type="checkbox"/> World History CP <input type="checkbox"/> AP World History	<input type="checkbox"/> U.S. History PSP <input type="checkbox"/> U.S. History CP <input type="checkbox"/> AP U.S. History <input type="checkbox"/> Dual Credit U.S. History	<input type="checkbox"/> U.S. Government PSP (1/2) <input type="checkbox"/> Dual Credit U.S. Government (1/2) AND <input type="checkbox"/> Economics PSP (1/2) <input type="checkbox"/> Dual Credit Economics (1/2)
<i>Foreign Language</i> 2 Credits <i>Fine Arts</i> 1 Credit <i>Personal Health & Finance</i> 1 Credit	<i>Foreign Language I Credit</i> <input type="checkbox"/> Spanish I PSP <input type="checkbox"/> Spanish I CP OR <input type="checkbox"/> French I PSP <input type="checkbox"/> French I CP <i>Foreign Language credits may also be taken in the 10th and 11th grade years instead of 9th and 10th grade years. Simply choose them as electives in those years and the Foreign Language Credits will appear.</i>	<i>Foreign Language II Credit</i> <input type="checkbox"/> Spanish II PSP <input type="checkbox"/> Spanish II CP OR <input type="checkbox"/> French II PSP <input type="checkbox"/> French II CP	<i>Fine Art Credit</i> <input type="checkbox"/> Art I <input type="checkbox"/> Concert Band (2 years req.) <input type="checkbox"/> Choir <input type="checkbox"/> Dance I <input type="checkbox"/> Music History <input type="checkbox"/> Floral Design <input type="checkbox"/> Stage Band – Jazz <input type="checkbox"/> Strings <input type="checkbox"/> Theatre Arts I <i>Fine Arts credit may be taken any year.</i>	<i>Personal Health & Finance Credit</i> <input type="checkbox"/> Lifetime Nutrition & Wellness (1/2) AND <input type="checkbox"/> Dollars & Sense (1/2) <i>These credits may also be taken in the 11th or 12th grade year.</i>
<i>Physical Education</i> 1 Credit <i>Technology</i> 1 Credit <i>Electives</i> 2 Credits	<i>Physical Education Credit</i> <input type="checkbox"/> Athletic Trainer <input type="checkbox"/> Marching Band (2 years req.) <input type="checkbox"/> Cheerleading <input type="checkbox"/> PE <input type="checkbox"/> Pre-Drill <input type="checkbox"/> Athletics	<i>Technology Credit</i> <input type="checkbox"/> Business Information Management I <input type="checkbox"/> Computer Programming <input type="checkbox"/> Digital Media <input type="checkbox"/> Graphic Design <input type="checkbox"/> Video Production I	<i>Choice of Elective 1 Credit</i> <hr/>	<i>Choice of Elective 1 Credit</i> <hr/>
Endorsement Sequence 4-7 Credits	Endorsement Course 1 <hr/>	Endorsement Course 2 <hr/>	Endorsement Course 3 <hr/>	Endorsement Course 4 <hr/>
<i>Elective Options</i>	Elective Option <hr/>	Elective Option <hr/>	Elective Option <hr/>	Elective Option <hr/>
Total Credits 32	8 Credits	8 Credits	8 Credits	8 Credits

Five Main Endorsement Areas

1. **Arts & Humanities:** Includes courses directly related to political science, world languages, cultural studies, English literature, history, and fine arts.
2. **Business & Industry:** Highly varied occupations in both service and manufacturing industries ranging from industrial and technical trades to business, marketing and finance.
3. **Multidisciplinary:** Allows students to select courses from the curriculum of each endorsement area and earn credits in a variety of advance courses from multiple content areas sufficient to complete the distinguished level of achievement.
4. **Public Service:** Service-oriented occupations for both private and public sector industries including health sciences, education and training, law enforcement, and human services.
5. **STEM:** Rigorous coursework and occupations centered on applied science, mathematics, and technology.

Choosing an Endorsement

Arts & Humanities Areas	Business & Industry Career Areas	Public Service Career Areas	STEM Areas
Art	Accounting	Education & Training	Math
Dance	Animal Science	Health Science	Science
French	Architecture	Human Services	Robotics
Spanish	Auto Repair	Law & Public Safety	
Spanish & French	Broadcasting		
Music Instrumental	Business Management		
Music Vocal	Computer Programming		
Social Studies	Construction		
Theatre Arts	Culinary Arts		
	Entrepreneur		
	Farm Management		
	Graphic Design Journalism		
	Marketing		
	Medical Management & Billing		
	Multimedia		
	Plant Science		
	Video Game Design		
	Welding		
	Wildlife Management		

[Multidisciplinary Studies](#)

Articulated Course Credits

Articulated course credit allows high school students to receive college credit for technical courses they completed while in high school. The articulation process eliminates the need for duplication of courses at the college level. Articulated credit is absolutely FREE! Students can take up to 15 credit hours of articulated credit that saves in the form of time and college tuition and fees.

Articulation Agreement with Paris Junior College (PJC)

Sulphur Springs High School has articulation agreements with Paris Junior College (PJC) for several high school Career & Technical Education (CTE) courses. There are requirements in order for students to earn the articulated credits through PJC. Those requirements are:

1. Must meet all college admission requirements.
2. Must have graduated from high school on the Recommended Graduation Plan or Foundation High School Plan with an Endorsement.
3. Must select and have an approved college AAS or Certificate Degree Plan on file with PJC.
4. Must have completed the specified high school course(s) with a minimum grade of 80.
5. Must be currently enrolled in PJC and have completed twelve (12) semester hours of credit (which can include dual credit/concurrent credit coursework taken in high school).
6. Request for college credit to be granted for the articulated courses within fifteen (15) months from the date of high school graduation.

Articulated Courses

SSHS Course	PJC Course	SSHS Course	PJC Course	SSHS Course	PJC Course
Accounting I	ACNT 1311	Business Information Management (BIM) I AND BIM II	ITSC 1309	Principles of Health Science	HPRS 1201
Accounting II	ACNT 1303	Business Law AND Principles of Business, Marketing & Finance	BUSG 1301	Principles of Information Technology	ITSC 1301
Ag Mechanics & Metal Technologies	WLDG 1313	Court Systems & Practices	CRIJ 1306	Touch Systems Data Entry	POFT 1329
Anatomy & Physiology	MDCA 1309	Health Science Theory	HPRS 1102	Web Technologies	IMED 1316
Architectural Design I	DFTG 1309	Medical Terminology	HITT 1305	Welding I	WLDG 1307
Architectural Design II	DFTG 1305	Money Matters AND Principles of Business, Marketing & Finance	BUSG 1304		

Certification Programs

Sulphur Springs High School in conjunction with Paris Junior College (PJC) offer several endorsements that will result in students earning Certifications. Courses taken through these endorsements will contain courses that articulate with PJC and, in some cases, are available through concurrent courses that can be taken while enrolled in the Practicum high school courses.

Endorsements Leading to PJC Certifications:

- Business & Industry Endorsement – AG Structural Steel Welding Certificate
- Business & Industry Endorsement – Business Medical Management & Billing Certificate
- Business & Industry Endorsement – Office/Computer Applications Certificate
- Business & Industry Endorsement – Office Accounting Certificate
- Business & Industry Endorsement – IT Business Computer Applications Certificate
- Public Service Endorsement – Enhanced Nurse Aide Certificate

Arts & Humanities Endorsements

The Arts & Humanities Endorsement allows students to follow their interests in fine arts, foreign language or the general humanities.

Fine Arts Requirements: A coherent sequence of four credits by selecting courses from one or two categories or disciplines in fine arts.

Foreign Language Requirements: Four levels of the same language or two levels of each of the foreign languages offered.

Social Studies Requirements: Completion of five social studies credits.
Endorsement electives may serve as Foundation electives as well.



Programs of Study	Course Sequence
Art (4 credits) <i>Career Requirements: Bachelor's Degree +</i>	9th Grade: Art I (Fine Arts Credit) 10th Grade: Art II 11th Grade: Art III 12th Grade: Art IV
Dance (4 credits) <i>Career Requirements: Bachelor's Degree +</i>	9th Grade: Dance I (Fine Arts Credit) 10th Grade: Dance II 11th Grade: Dance III 12th Grade: Dance IV
Foreign Language - French (4 credits) <i>Career Requirements: Bachelor's Degree +</i>	9th Grade: French I CP (Foreign Language Credit) 10th Grade: French II CP (Foreign Language Credit) 11th Grade: French III CP 12th Grade: French IV CP
Foreign Language - Spanish (4 credits) <i>Career Requirements: Bachelor's Degree +</i>	9th Grade: Spanish I CP (Foreign Language Credit) 10th Grade: Spanish II CP (Foreign Language Credit) 11th Grade: Spanish III CP 12th Grade: Spanish IV CP



Programs of Study	Course Sequence
<p>French & Spanish (4 credits) <i>Career Requirements: Bachelor's Degree +</i></p>	<p>9th Grade: Spanish I CP (Foreign Language Credit) 10th Grade: Spanish II CP (Foreign Language Credit) 11th Grade: French I CP 12th Grade: French II CP</p>
<p>Music Instrumental (4 credits) <i>Career Requirements: Bachelor's Degree +</i></p>	<p>9th Grade: Marching Band (1/2 PE Credit) AND Concert Band (1/2 Fine Arts Credit) OR Stage Band Jazz OR Strings 10th Grade: Marching Band (1/2 PE Credit) AND Concert Band (1/2 Fine Arts Credit) OR Stage Band Jazz OR Strings 11th Grade: Marching Band AND Concert Band OR Stage Band Jazz OR Strings 12th Grade: Marching Band AND Concert Band OR Stage Band Jazz OR Strings</p>
<p>Music Vocal (4 credits) <i>Career Requirements: Bachelor's Degree +</i></p>	<p>9th Grade: Music History OR Choir (Fine Art Credit) 10th Grade: Choir (Wildcat Singers, Wildcat Chorale, Bella Voce, Rhapsody) 11th Grade: Choir (Wildcat Singers, Wildcat Chorale, Bella Voce, Rhapsody) 12th Grade: Choir (Wildcat Singers, Wildcat Chorale, Bella Voce, Rhapsody)</p>
<p>Social Studies (5 credits – 4 already satisfy Foundation Plan) <i>Career Requirements: Bachelor's Degree +</i></p>	<p>9th Grade: World Geography 10th Grade: World History 11th Grade: US History 12th Grade: US Government/Economics AND 5th Endorsement Social Students Credit – <u>Choose two</u> (for 1 Credit Total):</p> <ul style="list-style-type: none"> ● Psychology PSP (1/2 Credit) ● Sociology (1/2 Credit) ● Old Testament Studies (1/2 Credit) ● New Testament Students (1/2 Credit)
<p>Theatre Arts (4 credits)</p>	<p>9th Grade: Theatre Arts I OR Technical Theatre I (Fine Art Credit) 10th Grade: Theatre Arts II OR Technical Theatre II 11th Grade: Theatre Arts III OR Technical Theatre III 12th Grade: Theatre Arts IV OR Technical Theatre IV</p>

Business & Industry Endorsements

Encompassing a wide range of career fields, the Business & Industry Endorsements prepare students for the workplace, a technical education or a four-year university depending on the program and interests of the student. Several career focus areas lead to an industry certification providing employment opportunities upon graduation.

Business & Industry Requirements: A minimum of four or more credits in Career & Technical Education (CTE) courses with at least two in the same career cluster, one advanced course, and the final course should be from the same career cluster named in the Endorsement area.

Advanced level courses are identified with an asterisk ().*

Career Cluster:



Programs of Study	Course Sequence
<p>Animal Science (4-5 credits) Industry Recognized Certifications: Certified Veterinary Assistant Level I, Texas Beef Quality Assurance</p> <p>Career Goal: Veterinarian, Veterinary Assistant, Veterinary Technologist, Animal Nutritionist, Biotechnology Technician, Meat Processor</p> <p>CTE Student Organization: Texas FFA Association</p>	<p>9th Grade: Principles of Agriculture, Food & Natural Resources (1 Credit)</p> <p>10th Grade: Small Animal Management (1/2 Credit) AND Equine Science (1/2 Credit) OR Livestock Production (1 Credit)</p> <p>11th Grade: *Veterinary Medical Applications (1 credit)</p> <p>12th Grade: *Practicum in AFNR (2 Credits) AND/OR *Advanced Animal Science (4th Science Credit)</p>
<p>Plant Science (4-5 credits) Industry Recognized Certifications: Texas State Floral Association (TSFA) Floral Design Certification Level I and II</p> <p>Career Goal: Floral Designer, Agriculture Communications, Farm Manager, Financial Planner, Landscape Designer</p> <p>CTE Student Organization: Texas FFA Association</p>	<p>9th Grade: Principles of Agriculture, Food & Natural Resources (1 Credit)</p> <p>10th Grade: Floral Design (Fine Art Credit)</p> <p>11th Grade: *Horticulture Science (1 Credit) OR Advanced Floral Design (1 Credit)</p> <p>12th Grade: *Practicum in AFNR (2 Credits) AND/OR *Advanced Plant & Soil Science (4th Science Credit)</p>



Programs of Study

Course Sequence

Farm Management

(4-5 credits)

Industry Recognized Certifications:

Texas Beef Quality Assurance, Hunter's Education

Career Goal:

Farm Manager, Energy Technician, Forest Conservationist

CTE Student Organization: Texas FFA Association

9th Grade: Principles of Agriculture, Food & Natural Resources (1 Credit)

10th Grade: Livestock Production (1 Credit)
OR Agriculture Mechanics (1 Credit)

11th Grade: *Horticulture Science (1 Credit)
OR Wildlife, Fisheries, and Ecology

12th Grade: *Practicum in AFNR (2 Credits)
AND/OR *Advanced Plant & Soil Science (4th Science Credit)

Wildlife Management

(4-5 credits)

Industry Recognized Certifications:

Hunter's Education, Boater's Education

Career Goal:

Game Warden, Marine Biologist, Water Environment Manager

CTE Student Organization: Texas FFA Association

9th Grade: Principles of Agriculture, Food & Natural Resources (1 Credit)

10th Grade: Wildlife, Fisheries, and Ecology Management (1 Credit)

11th Grade: Law Enforcement I (1 Credit)

12th Grade: *Practicum in AFNR (2 Credits)
AND/OR *Advanced Animal Science (4th Science Credit)

Agriculture, Food & Natural Resources Course Descriptions

Principles of Agriculture, Food & Natural Resources

Grades 9-10

1 Credit

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

Equine Science

Grades 10-12

.5 Credit

Recommended Prerequisite: Principles of Agriculture, Food & Natural Resources

In Equine Science, students will acquire knowledge and skills related to equine animal systems and the equine industry. Equine Science may address topics related to horses, donkeys, and mules. To prepare for careers in the field of animal science, students must enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

Livestock Production

Grades 10-12

1 Credit

Recommended Prerequisite: Principles of Agriculture, Food & Natural Resources

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

Small Animal Management	Grades 10-12	.5 Credit
<i>Recommended Prerequisite: Principles of Agriculture, Food & Natural Resources</i>		
In Small Animal Management, students will acquire knowledge and skills related to small animals and the small animal management industry. Small Animal Management may address topics related to small mammals such as dogs and cats, amphibians, reptiles, and birds.		
Veterinary Medical Applications	Grades 11-12	1 Credit
<i>Prerequisite: Equine Science, Small Animal Management, or Livestock Production</i>		
Veterinary Medical Applications covers topics relating to veterinary practices, including practices for large and small animal species.		
Advanced Animal Science	Grades 11-12	1 Credit
<i>Prerequisites: Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production. Recommended Prerequisite: Veterinary Medical Application</i>		
Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences.		
Wildlife, Fisheries, and Ecology Management	Grades 10-12	1 Credit
<i>Recommended Prerequisite: Principles of Agriculture, Food & Natural Resources</i>		
Wildlife, Fisheries, and Ecology Management examines the management of game and non-game wildlife species, fish, and aquacrops and their ecological needs as related to current agricultural practices.		
Floral Design (Fine Arts Credit)	Grades 10-12	1 Credit
<i>Recommended Prerequisite: Principles of Agriculture, Food & Natural Resources</i>		
Floral Design is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students will develop respect for the traditions and contributions of diverse cultures. Students will respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations.		
Horticulture Science	Grades 10-12	1 Credit
<i>Local Prerequisite: Floral Design</i>		
Horticultural Science is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production.		
Advanced Plant and Soil Science (Science Credit)	Grades 11-12	1 Credit
<i>Recommended Prerequisites: Biology, Integrated Physics and Chemistry, Chemistry, Physics and Horticulture Science.</i>		
Advanced Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science.		

Agriculture Mechanics and Metal Technologies**Grades 10-12****1 Credit**

Recommended Prerequisite: Principles of Agriculture, Food, and Natural Resources.

Agricultural Mechanics and Metal Technologies is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques.

Practicum in Agriculture, Food, and Natural Resources**Grades 11-12****2 Credits**

Prerequisites: A minimum of two Agriculture courses.

Practicum in Agriculture, Food, and Natural Resources is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories

Career Cluster:



Programs of Study	Course Sequence
<p>Architecture (5 credits) Industry Recognized Certifications: AAFCS Pre Professional Interior Design Fundamentals</p> <p>Career Goal: Architect, Civil/Structural Engineer, Interior Designer</p> <p>CTE Student Organization: Skills USA, Family Community and Consumer Leaders of America (FCCLA)</p>	<p>9th Grade: Principles of Architecture (1 Credit) 10th Grade: Interior Design (1 Credit) 11th Grade: Architectural Design I (1 Credits) OR Dual Credit Architectural Design I (CAD 1309 & CAD 1305) 12th Grade: *Architectural Design II (2 Credits) OR Dual Credit Architectural Design II (CAD 1325 & CAD 2317)</p>
<p>Construction (6-7 credits) Industry Recognized Certifications: OSHA 10-Hour Safety, NCCER Core Level I</p> <p>Career Goal: Construction Manager, Construction Foreman, Project Manager, Building Maintenance, Cost Estimator, Equipment/Material Manager</p> <p>CTE Student Organization: Skills USA</p> <ul style="list-style-type: none"> ✓ HIGHEST WAGE ✓ FASTEST GROWING 	<p>9th Grade: Principles Construction (1 Credit) 10th Grade: Construction Technology I (2 Credits) OR Interior Design (1 Credit) 11th Grade: Construction Technology II OR Construction Technology I (2 Credits) 12th Grade: *Practicum in Construction Technology (2 Credits) OR *Construction Technology II NOTE: Opportunity for Dual Credit courses or Apprenticeship hours in Electrical, HVAC, & Plumbing while in Practicum</p>

Architecture and Construction Course Descriptions

Principles of Architecture

Grades 9-10

1 Credit

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

Interior Design**Grades 10-12****1 Credit**

Required Prerequisites: Algebra I and English I. Recommended Prerequisite: Principles of Architecture or Principles of Construction.

Interior Design I is a technical course that addresses psychological, physiological, and sociological needs of individuals by enhancing the environments in which they live and work. Students will use knowledge and skills related to interior and exterior environments, construction, and furnishings to make wise consumer decisions, increase productivity, promote sustainability, and compete in industry.

Architectural Design I**Grades 10-12****1 Credit**

Required Prerequisites: Algebra I, English I, and Interior Design

In Architectural Design I, students will gain knowledge and skills needed to enter a career in architecture or construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, or landscape architecture. Architectural Design I include the knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for nonresidential or residential architectural purposes.

Architectural Design II**Grades 11-12****2 Credits**

Required Prerequisites: Architectural Design I and Geometry.

In Architectural Design II, students will gain advanced knowledge and skills needed to enter a career in architecture or construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, or landscape architecture. Architectural Design II includes the advanced knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for nonresidential or residential architectural purposes.

Principles of Construction**Grades 9-10****1 Credit**

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

Construction Technology I**Grades 10-12****2 Credits**

Recommended Prerequisite: Principles of Construction or Principles of Architecture.

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

Construction Technology II**Grades 11-12****2 Credits**

Required Prerequisite: Construction Technology I

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

Practicum in Construction Technology**Grade 12****2 Credits***Required Prerequisite: Construction Technology II*

In Practicum in Construction Technology, students will be challenged with the application of knowledge and skills gained in previous construction-related coursework. In many cases students will be allowed to work at a job (paid or unpaid) outside of school or be involved in local projects the school has approved for this class.

Career Cluster:



Programs of Study	Course Sequence
<p>Broadcasting (6 credits) Industry Recognized Certifications: Adobe Certified Associate Premier Professional</p> <p>Career Goal: Broadcast Technician, Audio/Video Equipment Technician, Film Editor, Radio/TV Announcer, Producer/Director, Performing Arts, Artist, Fashion Designer, Printing Technology, Video Technology</p> <p>CTE Student Organization: Business Professionals of America, Skills USA</p>	<p>9th Grade: Principles of Arts, A/V Technology & Communications (1 Credit)</p> <p>10th Grade: Audio/Video Production (1 Technology Credit)</p> <p>11th Grade: *Audio/Video Production II (2 Credits)</p> <p>12th Grade: *Practicum in Audio/Video Production (2 Credits and Internship Opportunity)</p>
<p>Graphic Design Journalism (5 credits) Industry Recognized Certifications: Adobe Certified Associate Illustrator, Adobe Certified Associate Photoshop</p> <p>Career Goal: Journalist, Professional Photographer, Graphic Design Artist, Exhibit Designer</p> <p>Student Organizations: Business Professionals of America, Skills USA, UIL Journalism</p>	<p>9th Grade: Principles of Arts, A/V Technology & Communications (1 Credit)</p> <p>10th Grade: Commercial Photography (1 Credit)</p> <p>11th Grade: Graphic Design & Illustration for Journalism I (1 Credit)</p> <p>12th Grade: *Graphic Design & Illustration II (2 Credits)</p>
<p>Video Game Design (4 Credits) Industry Recognized Certifications: Adobe Certified Associate Illustrator, Adobe Certified Associate Photoshop, Adobe Certified Associate Animate</p> <p>Career Goal: Video Game Designer, Animator, Graphic Designer</p> <p>Student Organizations: Business Professionals of America, Skills USA</p>	<p>9th Grade: Principles of Arts, A/V Technology & Communications (1 Credit)</p> <p>10th Grade: Graphic Design OR Digital Media (1 Credit)</p> <p>11th Grade: Animation (1 Credit)</p> <p>12th Grade: *Video Game Design (1 Credit)</p>

Arts, A/V Technology & Communications Course Descriptions

Principles of Arts, A/V Technology & Communications

Grades 9-10

1 Credit

Careers in the Arts, Audio/Video Technology, and Communications Career Cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

Audio/Video Production I

Grades 10-12

1 Credit

Recommended Prerequisite: Principles of Arts, A/V Technology & Communications

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. 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 industry with a focus on preproduction, production, and post-production audio and video products.

Audio/Video Production II with Lab

Grades 11-12

2 Credits

Required Prerequisite: Audio/Video Production I

Building upon the concepts taught in Audio/Video Production, 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 products. This course may be implemented in an audio format or a format with both audio and video.

Practicum in Audio/Video Production

Grades 11-12

2 Credits

Required Prerequisite: Audio/Video Production II with Lab

Building upon the concepts taught in Audio/Video Production II and its corequisite Audio/Video Production II Lab, 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 increasing understanding of the industry with a focus on applying preproduction, production, and post-production audio and video products in a professional environment. This course may be implemented in an advanced audio/video or audio format. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

Commercial Photography

Grades 10-12

1 Credit

Recommended Prerequisite: Principles of Arts, A/V Technology & Communications

Careers in commercial photography require skills that span all aspects of the industry from setting up a shot to delivering products in a competitive market. In addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs.

Graphic Design and Illustration I (Technology Credit)

Grades 10-12

1 Credit

Recommended Prerequisite: Principles of Arts, A/V Technology & Communications

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video

Technology, and Communications Career Cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

Animation

Grades 10-12

1 Credit

Required Prerequisite: Graphic Design or Digital Media. Recommended Prerequisite: Principles of Arts, A/V Technology and Communications.

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.

Video Game Design

Grades 11-12

1 Credit

Local Required Prerequisite: Animation

Video Game Design will allow students to explore one of the largest industries in the global marketplace and the new emerging careers it provides in the field of technology. Students will learn gaming, computerized gaming, evolution of gaming, artistic aspects of perspective, design, animation, technical concepts of collision theory, and programming logic. Students will participate in a simulation of a real video game design team while developing technical proficiency in constructing an original game design

Career Cluster:



Programs of Study	Course Sequence
<p>Business Management (5-6 credits)</p> <p>Industry Recognized Certifications: Microsoft Office Specialist in Word, Excel, Access, PowerPoint; Microsoft Office Expert in Word, Excel; QuickBooks Certified User</p> <p>Career Goal: Business Executive, Business Manager, Human Resource Manager, Marketing Manager, Office Manager, Research Analyst, Sales Manager</p> <p>Student Organization: Business Professionals of America, UIL Accounting, UIL Computer Applications</p>	<p>9th Grade: Principles of Business Marketing & Finance (1 Credit)</p> <p>10th Grade: Business Information Management I (1 Technology Credit)</p> <p>11th Grade: Accounting I (1 Credit) OR *Business Information Management II (1 Credit) OR Dual Credit Business Management BUSG 1301 and 1327</p> <p>12th Grade: *Practicum in Business Management (2 Credits with Internship or Dual Credit-HRPO 2301 and BUSI 2301 Opportunities) OR *Career Preparation I (2 – 3 Credits with work release periods)</p>
<p>Medical Management & Billing (6 credits)</p> <p>Industry Recognized Certifications: Microsoft Office Specialist in Word, Excel, Access, and PowerPoint; Microsoft Office Expert in Word, Excel; QuickBooks Certified User</p> <p>Career Goal: Medical Secretary, Medical Billing, Database Administrator</p> <p>Student Organization: Business Professionals of America, UIL Accounting, UIL Computer Applications</p>	<p>9th Grade: Principles of Business Marketing & Finance (1 Credit)</p> <p>10th Grade: Medical Terminology (Articulated Credit) Required Technology Credit – Business Information Management I (1 Credit)</p> <p>11th Grade: Accounting I (Articulated Credit)</p> <p>12th Grade: *Business Information Management II (Articulated Credit with BIM I) Required 4th Science Credit – *Anatomy & Physiology (Articulated Credit)</p>

Business Management & Administration Course Descriptions

Principles of Business, Marketing & Finance

Grades 9-10

1 Credit

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

Business Information Management I (Technology Credit)**Grades 10-12****1 Credit***Recommended Prerequisite: Principles of Business, Marketing & Finance*

In Business Information Management I, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.

Business Information Management II**Grades 11-12****1 Credit***Required Prerequisite: Business Information Management I*

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

Practicum in Business Management**Grades 11-12****2 Credits***Local Required Prerequisites: Completed at minimum of two Business Management courses.*

Practicum in Business Management is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

Career Cluster:



Programs of Study	Course Sequence
<p>Accounting (5 credits)</p> <p>Industry Recognized Certifications: QuickBooks Certified User</p> <p>Career Goal: Accountant, Financial Officer or Manager, Financial Analyst, Financial Controller, Financial Examiner, Bookkeeper, Payroll/Accounts Receivable/Accounts Payable Clerk, Actuary, Urban Planner, Market Research Analyst, Realtor`</p> <p>Student Organization: Business Professionals of America, UIL Accounting</p>	<p>9th Grade: Principles of Business Marketing & Finance (1 Credit)</p> <p>10th Grade: Accounting I (1 Credit) Required Technology Credit: Business Information Management I (1 Credit)</p> <p>11th Grade: *Accounting II (Math Credit)</p> <p>12th Grade: *Financial Analysis</p>

Finance Course Descriptions

Principles of Business, Marketing & Finance **Grades 9-10** **1 Credit**

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

Accounting I **Grades 10-12** **1 Credit**

Recommended Prerequisite: Principles of Business, Marketing & Finance

Accounting encompasses careers that record, classify, summarize, analyze, and communicate a business's financial information/business transactions for use in management decision making. Accounting includes such activities as bookkeeping, systems design, analysis, and interpretation of accounting information.

Accounting II (Math Credit) **Grades 11-12** **1 Credit**

Required Prerequisite: Accounting I

In Accounting II, students will continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in various managerial, financial, and operational accounting activities. Students will formulate, interpret, and communicate financial information for use in management decision making. Students will use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real-world situations to maintain, monitor, control, and plan the use of financial resources.

Financial Analysis**Grades 11-12****1 Credit***Required Prerequisite: Accounting II*

In Financial Analysis, students will apply knowledge and technical skills in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students will develop analytical skills by actively evaluating financial results of multiple businesses, interpreting results for stakeholders, and presenting strategic recommendations for performance improvement.

Career Cluster:



Programs of Study	Course Sequence
<p>Culinary Arts (7 credits)</p> <p>Industry Recognized Certifications: Texas Food Handler Certification, AAFCS – Pre-Professional Culinary Arts Certification, American Culinary Federation (ACF) Pastry Certification</p> <p>Career Goal: Chef Head Cook, Food Beverage Manager, Lodging Manager, Sous Chef, Line Cook</p> <p>Student Organization: Family, Career and Community Leaders of America (FCCLA), Skills USA</p> <p>✓ FASTEST GROWING</p>	<p>9th Grade: Intro to Culinary Arts (1 Credit) 10th Grade: Culinary Arts (2 Credits) 11th Grade: *Advanced Culinary Arts (2 Credits) 12th Grade: *Practicum in Culinary Arts (2 Credits and Internship Opportunity)</p>

Hospitality & Tourism Course Descriptions

<p>Introduction to Culinary Arts</p> <p>Introduction to Culinary Arts will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This is an entry level course for students interested in pursuing a career in the food service industry. This course is offered as a classroom and laboratory-based course.</p>	<p>Grades 9-10</p>	<p>1 Credit</p>
<p>Culinary Arts</p> <p><i>Recommended Prerequisite: Introduction to Culinary Arts</i></p> <p>Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification or other appropriate industry certifications. This course is offered as a laboratory-based course.</p>	<p>Grades 10-12</p>	<p>2 Credits</p>
<p>Advanced Culinary Arts</p> <p><i>Required Prerequisite: Culinary Arts</i></p> <p>Advanced Culinary Arts will extend content and enhance skills introduced in Culinary Arts by in depth instruction of industry-driven standards in order to prepare students for success in higher education, certifications, and/or immediate employment.</p>	<p>Grades 11-12</p>	<p>2 Credits</p>

Practicum in Culinary Arts**Grade 11-12****2 Credits***Required Prerequisite: Advanced Culinary Arts*

Practicum in Culinary Arts is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Culinary Arts integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace.

Career Cluster:



Programs of Study	Course Sequence
<p>Multimedia (4-5 credits) Industry Recognized Certifications: Adobe Certified Associate – Photoshop, Adobe Certified Associate Animate</p> <p>Career Goal: Multimedia Artist and Animator, Multimedia Producer, Website Designer, Website Developer, Webmaster, Data Communications Analyst, GIS Geographer, Network Administrator</p> <p>Student Organizations: Business Professionals of America (BPA), Skills USA</p>	<p>9th Grade: Principles of Information Technology (1 Credit) 10th Grade: Digital Media (1 Technology Credit) 11th Grade: Animation (1 Credit) 12th Grade: *Web Technologies (1 Credit) OR *Practicum in IT TECH TEAM (2 Credits working with HS Tech Team)</p>
<p>Computer Programming (5 credits) Industry Recognized Certifications: Microsoft Technology Associate, Oracle Certified Associate JAVA SE 8 Programmer</p> <p>Career Goal: Code Programmer, Software Engineer, Computer Systems Engineer</p> <p>Student Organizations: Business Professionals of America (BPA), UIL Computer Programming, Skills USA</p> <p>✓ HIGHEST WAGE</p>	<p>9th Grade: Principles of Information Technology (1 Credit) 10th Grade: Computer Programming I (1 Technology Credit) 11th Grade: *Computer Programming II (1 Credit) 12th Grade: *Practicum in IT (2 Credits with Internship Opportunity)</p> <p><i>Recommended Math Credit – AP Computer Science</i></p>

Information Technology Course Descriptions

Principles of Information Technology

Grades 9-10

1 Credit

In Principles of Information Technology, students will develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students will enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.

Digital Media (Technology Credit)**Grades 10-12****1 Credit***Recommended Prerequisite: Principles of Information Technology*

In Digital Media, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment.

Web Technologies**Grades 10-12****1 Credit***Local Required Prerequisite: Digital Media or Graphic Design*

In Web Technologies, students will learn to make informed decisions and apply the decisions to the field of IT. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment.

Computer Programming I (Technology Credit)**Grades 10-12****1 Credit***Recommended Prerequisite: Principles of Information Technology*

In Computer Programming I, students will acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer programming. Students will apply technical skills to address business applications of emerging technologies.

Computer Programming II**Grades 11-12****1 Credit***Local Required Prerequisite: Computer Programming I*

In Computer Programming II, students will expand their knowledge and skills in structured programming techniques and concepts by addressing more complex problems and developing comprehensive programming solutions.

Practicum in Information Technology**Grades 11-12****2 Credits***Required Prerequisite: Completed a minimum of two Information Technology courses.*

In the Practicum in Information Technology, students will gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge and skills in the proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an industry mentor, as an unpaid or paid internship, as part of a capstone project, or as career preparation.

Career Cluster:



Programs of Study	Course Sequence
<p>Welding (6-7 credits)</p> <p>Industry Recognized Certifications: OSHA 10-Hour, AWS SENSE Welding Level I, AWS D1.1 Structural Steel, AWS D9.1 Sheet Metal Welding</p> <p>Career Goal: Welder and Cutter, Agricultural Engineer, Welder Fitter, Production</p> <p>CTE Student Organization: Texas FFA Association, Skills USA</p> <p>✓ FASTEST GROWING</p>	<p>9th Grade: Introduction to Welding (1 Credit)</p> <p>10th Grade: Welding I (2 Credits) OR Agriculture Mechanics & Metal Technologies (1 Credit)</p> <p>11th Grade: *Welding II (2 Credits) OR Welding I (2 Credits) OR Dual Credit WLDG 1313 and 1417</p> <p>12th Grade: *Practicum in Manufacturing (2 Credits with Dual Credit- WLDG 1428 and 1457 Opportunity) OR *Welding II (2 Credits)</p>

Manufacturing Course Descriptions

Introduction to Welding

Grades 9-10

1 Credit

Recommending prerequisite or corequisite: Algebra I

Introduction to Welding will introduce welding technology with an emphasis on basic welding laboratory principles and operating procedures. Students will be introduced to the three basic welding processes. Topics include: industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and introduction to welding codes and standards. Introduction to Welding will provide students with the knowledge, skills, and technologies required for employment in welding industries. Students will develop knowledge and skills related to welding 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 will prepare students for future success.

Welding I

Grades 10-12

2 Credits

Local Required Prerequisites: Introduction to Welding and Algebra I

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

Welding II**Grades 11-12****2 Credits***Required Prerequisites: Welding I, Geometry*

Welding II builds on the knowledge and skills developed in Welding I. Students will develop advanced welding concepts and skills as related to personal and career development. Students will integrate academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

Practicum in Manufacturing**Grades 12****2 Credits***Local Required Prerequisites: Completed a minimum of two Manufacturing courses.*

The Practicum in Manufacturing course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

Career Cluster:



Programs of Study	Course Sequence
<p>Entrepreneur (6 credits)</p> <p>Industry Recognized Certifications: Microsoft Office Specialist in Word, Excel, Access, & PowerPoint; Microsoft Office Expert Word & Excel, Adobe Certified Associate PhotoShop, Adobe Certified Associate Illustrator</p> <p>Career Goal: Sales Manager, E-Commerce Marketing Manager, Entrepreneurship, Advertising and Promotions Manager, Marketing Manager, Purchasing Manager, Storage Distribution Manager, Technical Sales</p> <p>Student Organizations: Business Professionals of America (BPA), Skills USA</p>	<p>9th Grade: Principles of Business, Marketing and Finance (1 Credit)</p> <p>10th Grade: Business Information Management I (1 Technology Credit) OR Graphic Design & Illustration I (1 Technology Credit)</p> <p>11th Grade: *Entrepreneurship (1 Credit)</p> <p>12th Grade: *Career Prep I (2-3 Credits with work release periods) OR *Web Technologies (1 Credit)</p>

Marketing Course Descriptions

Principles of Business, Marketing & Finance **Grades 9-10** **1 Credit**

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

Entrepreneurship **Grades 10-12** **1 Credit**

Recommended Prerequisite: Principles of Business, Marketing & Finance

In Entrepreneurship, students 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, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

Career Preparation I **Grades 11-12** **2-3 Credits**

Prerequisite: Must obtain a job working a minimum of 10-15 hours per week.

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

Career Cluster:



Programs of Study	Course Sequence
<p>Auto Repair (6-7 credits) <i>Industry Recognized Certifications:</i> OSHA 10-Hour Safety, ALLDATA Automotive Information Specialist, ASE Certifications</p> <p><i>Career Goal:</i> Automotive Service Technician, Mechanic, Diesel Mechanic, Automotive Specialty Technician, Health & Safety, Aviation Service, Commercial Pilot, Industrial Engineer, Sales & Services Management, Urban Regional Planner</p> <p><i>Student Organizations:</i> Skills USA</p> <p>✓ HIGHEST WAGE FASTEST GROWING</p>	<p>9th Grade: Automotive Basics (1 Credit) 10th Grade: Automotive Technology I (2 Credits) OR Small Engine Technology (1 Credit) 11th Grade: Automotive Technology II (2 Credits) OR Automotive Technology I (2 Credits) 12th Grade: *Practicum in Transportation Systems (2 Credits and Internship Opportunity) OR *Automotive Technology II (2 Credits)</p>

Transportation, Distribution & Logistics Course Descriptions

Automotive Basics **Grades 9-12** **1 Credit**

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

Small Engine Technology **Grades 9-12** **1 Credit**

Small Engine Technology I includes knowledge of the function and maintenance of the systems and components of all types of small engines such as outdoor power equipment, motorcycles, generators, and irrigation engines. This course is designed to provide training for employment in the small engine technology industry. Instruction includes the repair and service of cooling, air, fuel, lubricating, electrical, ignition, and mechanical systems. In addition, the student will receive instruction in safety, academic, and leadership skills as well as career opportunities.

Automotive Technology I: Maintenance and Light Repair **Grades 10-12** **2 Credits**

Local Required Prerequisites: Automotive Basics or Small Engine Technology

Automotive Technology I: Maintenance and Light Repair includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. This course includes applicable safety and environmental rules and regulations. In Automotive Technology I: Maintenance and Light Repair, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow

students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

Automotive Technology II: Automotive Service

Grades 11-12

2 Credits

Required Prerequisite: Automotive Technology I

Automotive Technology II: Automotive Service includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. Automotive Technology II: Automotive Service includes applicable safety and environmental rules and regulations. In this course, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings.

Practicum in Transportation Systems

Grade 11-12

2 Credits

Local Required Prerequisite: Automotive Technology II

Practicum in Transportation Systems is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study, or laboratories. The Practicum can be either school lab based or worked based.

Public Service Endorsements

The Public Service Endorsements prepare students for occupations in healthcare, public safety, education, and other service-oriented jobs. Many of the pathways in this Endorsement area offer opportunities to obtain work-force ready certifications and licensures or to continue to post-secondary institutions.

Public Service Requirements: A minimum of four credits, with some focus areas requiring 4+ credits.

Career Cluster:



Programs of Study

Education and Training

(6 credits)

Industry Recognized Certifications:

AAFCS Early Childhood Education, AAFCS Pre Professional Education Fundamentals

Career Goal:

Teacher, Teacher's Aide, School Administrator, School Counselor, Early Childhood Educator, Childcare Director/Owner, Special Education Specialist, Corporate Trainer, Training & Development Manager

CTE Student Organization: Family, Career and Community Leaders of America (FCCLA), Texas Association of Future Educators (TAFE)

- ✓ **HIGHEST WAGE**
- ✓ **FASTEST GROWING**
- ✓ **MOST OPENINGS**

Course Sequence

- 9th Grade:** Principles of Education & Training (1 Credit)
- 10th Grade:** Child Development (1 Credit)
- 11th Grade:** *Instructional Practices (2 Credits)
- 12th Grade:** *Practicum in Education & Training (2 Credits with Internship and Dual Credit Opportunities – EDUC 1301 and 2301)

Education and Training Course Descriptions

Principles of Education and Training

Grades 9-10

1 Credit

Principles of Education and Training is designed to introduce learners to the various careers available within the Education and Training Career Cluster. Students use self-knowledge as well as educational and career information

to analyze various careers within the Education and Training Career Cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.

Child Development

Grades 10-12

1 Credit

Recommended Prerequisite: Principles of Education or Principles of Human Services

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

Instructional Practices

Grades 11-12

2 Credits

Local Required Prerequisite: Child Development

Instructional Practices is a field-based (practicum) internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators or trainers in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

Practicum in Education and Training

Grade 12

2 Credits

Required Prerequisite: Instructional Practices

Practicum in Education and Training is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of classroom teachers, trainers, paraprofessionals, or other educational personnel.

Career Cluster:



Programs of Study	Course Sequence
<p>Health Science (4-6 credits)</p> <p>Industry Recognized Certifications: Basic Life Support Certification, Certified Medical Assistant (CMA), Emergency Medical Technician (EMT), Certified Nurse Aide (CNA)</p> <p>Career Goal: Medical Assistant, Registered Nurse, Physician, Surgeon, Dentist, Emergency Medical Technician, Respiratory Therapist, Physical/Occupational Therapist, Healthcare Manager, Biological Technician, Cardiovascular Technician, Clinical Lab Scientist, Dentist, Healthcare Administrator, Medical Records, Nutritionist, Pharmacist, Athletic Trainer, Environmental Scientist, Psychiatrist, Special Therapy Services, Speech Language Pathologist</p> <p>CTE Student Organization: Health Occupations Students of America (HOSA)</p> <ul style="list-style-type: none"> ✓ HIGHEST WAGE ✓ FASTEST GROWING <p>MOST OPENINGS</p>	<p>9th Grade: Principles of Health Science (1 Articulated Credit)</p> <p>10th Grade: *Health Science Theory (1 Credit)</p> <p>11th Grade: *Practicum in Health Science I (2 Credits – Application Process) OR Medical Terminology (1 Credit)</p> <p>12th Grade: *Practicum in Health Science II (2 Credits – Application Process) AND/OR *Anatomy & Physiology (1 Science Credit)</p> <p><i>Recommended Technology Credit: Business Information Management I</i></p>

Health Science Course Descriptions

Principles of Health Science

Grades 9-10

1 Credit

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

Health Science Theory

Grades 10-12

1 Credit

Required Prerequisites: Biology and Principles of Health Science

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

Medical Terminology**Grades 10-12****1 Credit***Local Required Prerequisite: Principles of Health Science*

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

Anatomy and Physiology (Science Credit)**Grades 11-12****1 Credit***Required Prerequisite: Biology and a Second Science Credit*

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

Practicum in Health Science**Grades 11-12****2 Credits***Required Prerequisites: Minimum of two credits in Health Science courses and Biology*

The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

Career Cluster:



Programs of Study	Course Sequence
<p>Human Services (5 credits)</p> <p>Industry Recognized Certifications: AAFCS Pre Professional Certification in Personal and Family Finance</p> <p>Career Goal: Counselor, Marriage and Family Therapist, Personal Financial Advisor, Child Care Director, Dietitian, Sales Manager Apparel, Sales Representative Housing, Social and Community Services Manager, Geriatric Care Manager</p> <p>Student Organization: Family, Career and Community Leaders of America (FCCLA), Skills USA</p>	<p>9th Grade: Principles of Human Services (1 Credit) 10th Grade: Child Development (1 Technology Credit) 11th Grade: Lifetime Nutrition & Wellness (1/2 Credit) AND Dollars & Senses (1/2 Credit) 12th Grade: *Practicum in Human Services (2 Credits)</p> <p>Recommended Electives: Psychology (1/2 Credit), Sociology (1/2 Credit), Business Information Management (BIM) for Technology Credit, and Entrepreneurship</p>

Human Services Course Descriptions

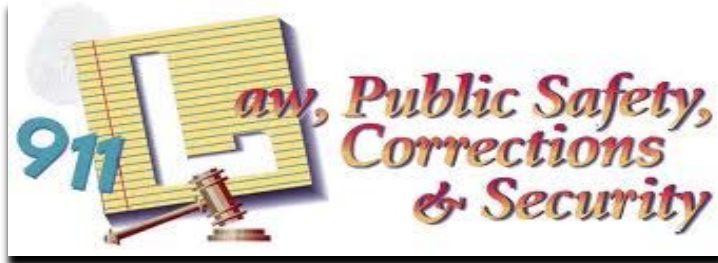
<p>Principles of Human Services</p> <p>Principles of Human Services is a laboratory course that will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, personal care, and consumer services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers.</p>	<p>Grades 9-12</p>	<p>1 Credit</p>
<p>Child Development</p> <p><i>Recommended Prerequisite: Principles of Education or Principles of Human Services</i></p> <p>Child Development is a technical laboratory course that addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.</p>	<p>Grades 10-12</p>	<p>1 Credit</p>
<p>Lifetime Nutrition & Wellness (Local Required Graduation Credit)</p> <p>Lifetime Nutrition and Wellness is a laboratory course that allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences.</p>	<p>Grades 11-12</p>	<p>.5 Credit</p>
<p>Dollars & Sense (Local Required Graduation Credit)</p> <p>Dollars and Sense focuses on consumer practices and responsibilities, money-management processes, decision-making skills, impact of technology, and preparation for human services careers.</p>	<p>Grades 11-12</p>	<p>.5 Credit</p>

Practicum in Human Services**Grade 12****2 Credits**

Local Required Prerequisites: Completed a minimum of two Human Services courses.

Practicum in Human Services provides background knowledge and occupation-specific training that focuses on the development of consumer services, early childhood development and services, counseling and mental health services, and family and community-services careers. Content for Practicum in Human Services is designed to meet the occupational preparation needs and interests of students and should be based upon the knowledge and skills selected from two or more courses in a coherent sequence in the human services cluster.

Career Cluster:



Programs of Study	Course Sequence
<p>Law and Public Safety (4-5 credits) <i>Industry Recognized Certifications:</i> County Jailer Certification</p> <p><i>Career Goal:</i> Corrections Officer, Police Patrol Officer, Security Guard, Lawyer, Judge, Arbitrator/Mediator, Probation Officer, Firefighter, Military</p> <p><i>Student Organization:</i> Business Professionals of America (BPA), Teen Court</p> <p>HIGHEST WAGE (LAW)</p>	<p>9th Grade: Principles of Law, Public Safety, Corrections & Security (1 Credit)</p> <p>10th Grade: Law Enforcement I (1 Credit)</p> <p>11th Grade: *Court Systems & Practices (1 Credit) OR Dual Credit Court Systems (CRIJ 1301 and 2323)</p> <p>12th Grade: *Practicum in Law (2 Credits with Internship Opportunity and Dual Credit Opportunity-CRIJ 1307 and 2328) AND/OR *Forensic Science (1 Science Credit)</p>

Law, Public Safety, Corrections & Security Course Descriptions

Principles of Law, Public Safety, Corrections and Security **Grades 9-10** **1 Credit**

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

Law Enforcement I **Grades 10-12** **1 Credit**

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

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

Court Systems & Practices **Grades 11-12** **1 Credit**

Local Required Prerequisite: Law Enforcement I

Court Systems and Practices 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.

Practicum in Law, Public Safety, Corrections, and Security

Grades 12

2 Credits

Local Required Prerequisite: Competed a minimum of two courses in Law, Public Safety, Corrections & Security

The practicum course is designed to give students supervised practical application of previously studied knowledge and skills in law, public safety, corrections, and security. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

STEM Endorsements

The STEM (Science, Technology, Engineering & Mathematics) Endorsement prepares students for entry into a four-year university in engineering, mathematics and science. Currently, we offer only two focus areas (Math and Science), but are hoping to expand to include an Engineering focus in the near future.

STEM Requirements: Must complete Algebra II, Chemistry, and Physics plus an additional Endorsement science or math elective.

Career Cluster:



Programs of Study	Course Sequence
<p>Math (5 credits – 4 already satisfy Foundation Plan) Career Goal: Engineering, General Mathematics, Statistician, Mechanical Engineer Student Organization: Robotics Team, UIL Math Team</p>	<p>9th Grade: Algebra I (1 Math Credit) 10th Grade: Geometry (1 Math Credit) 11th Grade: Algebra II (1 Math Credit) 12th Grade: Pre-Calculus (1 Math Credit) AND 5th Math Endorsement Credit: Choose from - AP Computer Science, AP Calculus, College Algebra, AP Statistics, Accounting II, Robotics II</p>
<p>Science (5 credits – 4 already satisfy Foundation Plan) Career Goal: Engineering, General Science, Chemist, Environmental Scientist, Environmental Engineer Student Organization: Robotics Team, UIL Science Team</p>	<p>9th Grade: Integrated Physics & Chemistry (1 Science Credit) 10th Grade: Biology (1 Science Credit) 11th Grade: Chemistry (1 Science Credit) 12th Grade: Physics (1 Science Credit) AND 5th Science Endorsement Credit: Choose from - Anatomy & Physiology CP, Astronomy, Advanced Animal Science, Advanced Plant & Soil Science, AP Chemistry, AP Biology, or Forensic Science</p>
<p>Robotics (4 credits) Career Goal: Engineering; Quality Assurance; Logistics & Inventory Control; Manufacturing, Installation & Repair, Logistician, Life Science, Physical Science, Mathematics Student Organization: Robotics Team, UIL Science Team</p>	<p>9th Grade: Principles Applied Engineering (1 Credit) 10th Grade: Robotics I (1 Credit) 11th Grade: *Robotics II (1 Math Credit) 12th Grade: *Practicum in STEM (2 Credits) Recommended Technology Credit: Computer Programming I</p>

STEM Course Descriptions

Principles of Applied Engineering

Grades 9-10

1 Credit

Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will have an understanding of the various fields of engineering and will be able to make informed career decisions. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.

Robotics I

Grades 10-12

1 Credit

Recommended Prerequisite: Principles of Applied Engineering or Principles of Information Technology

In Robotics I, students will transfer academic skills to component designs in a project-based environment through implementation of the design process. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry.

Robotics II (Math Credit)

Grades 11-12

1 Credit

Required Prerequisite: Robotics I

In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs.

Practicum in Science, Technology, Engineering, and Mathematics

Grade 12

2 Credits

Required Prerequisites: Algebra I and Geometry and completed a minimum of two courses in STEM

Practicum in STEM is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

Multidisciplinary Endorsements

The Multidisciplinary Endorsement allows students the flexibility of creating their own unique pathway that can be rigorous and customized to their interests. There are two ways to earn a Multidisciplinary Endorsement:

1. **Complete Core Block:** Earn four credits in each CORE SUBJECT AREA that must include English IV and Chemistry and/or Physics
2. **Advanced Coursework:** Complete four Advanced Placement (AP) or Dual Credit courses in the following areas: English, Mathematics, Science or Social Studies.

Elective Options

0.5 Credit Electives

Equine Science
New Testament Studies
Old Testament Studies
Professional Communications
Psychology
Small Animal Management
Sociology
Touch System Data Entry (Keyboarding)

1 Credit Electives

Accounting I
Ag Mechanics & Metal Technologies
AP Seminar
Art I
Athletic Trainer (Application must be completed.)
Audio Video Production I
Automotive Basics
Business Information Management I
Career Exploration
Career Prep I (11th & 12th only, job required)
Child Development
Commercial Photography
Computer Programming I
Construction Technology I
Creative Writing
Dance I
Debate I
Digital Media
Entrepreneurship
Floral Design
Graphic Design
Health Science Theory
Interior Design

Intro to Culinary Arts
Law Enforcement I
Livestock Production
Medical Terminology
Music History
Physical Education
Practicum in IT – TECH (Tech Team) (prerequisites:
two credits in IT courses)
*Principles of Agriculture, Food, and Natural
Sciences
*Principles of Architecture
*Principles of Construction
*Principles of Arts, A/V Tech & Communications
*Principles of Business, Marketing, & Finance
*Principles of Education & Training
*Principles of Health Science
*Principles of Hospitality & Tourism
*Principles of Human Services
*Principles of Information Technology
*Principles of Law
*Principles of Transportation Systems
Robotics I
Small Engine Technology
Synergy
Technical Theatre I
Teen Leadership
Theatre Arts I
Theatre Production I
UIL Period
Wildlife, Fisheries, and Ecology Management
***Principles may only be taken in 9th or 10th Grade**