



# FISD HIGH SCHOOL ACADEMIC GUIDE

MHS



# & COURSE CATALOG



—2018-2019—



Frisco Independent School District  
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# “Our mission is to know every student by name and need.”

## About this Guide

### Belief System

Education is a shared responsibility of students, school, home and community.

With that as an essential principle, we believe the following to be true for students, staff, families and the community:

- Everyone has equal inherent worth and deserves to be treated with respect and dignity.
- Everyone needs challenge, opportunity and encouragement.
- Each person is unique.
- Meaningful relationships have profound lifelong impact.
- Integrity is essential.
- Imagination and creativity are vital.
- A safe and orderly environment is necessary for learning.
- Every person can learn.
- Each person is ultimately responsible for his/her own learning.
- Learning is lifelong and unlimited.
- There is always room for improvement.
- All students must graduate with the skills they need to pursue their aspirations.

## INTRODUCTION

To Students and Families:

This Academic Guide & Course Catalog has been developed to provide important information for students. It will assist students and families in making wise, informed decisions concerning programs and course choices throughout your high school years.

The goal of Frisco Independent School District is to prepare students as thoroughly as possible for the next phase of their lives. This guide contains important information to help direct the student in making informed decisions throughout high school:

**Section I: Academic Guide** contains information on grade classifications, graduation programs, class rank, academic programming, transcripts, and other academic topics.

**Section II: Course Catalog** lists the courses that our high schools generally make available to students. However, it should be noted that not all of the courses listed are offered every year at every high school. Sufficient numbers of student requests for specific courses, staffing, and other factors impact whether or not a course is scheduled. All course offerings are subject to change. Please refer to the counseling office at your respective high school for more detailed information during the course selection process.

Your school counselors and other campus staff provide invaluable insight and guidance in your decision-making processes. The Academic Guide is a general reference guide only and should not be considered comprehensive. Please be aware that it is not a complete statement of all policies, procedures, or rules that may be applicable in a given circumstance.

If you or your child has questions about any of the material in this handbook, please contact your campus Administration.

*Frisco Independent School District does not discriminate on the basis of race, religion, color, national origin, sex or disability in providing education or providing access to benefits of education services, activities, and programs, including career and technology programs, in accordance with Title VI of the Civil Rights Act of 1964 as amended; Title IX of the Education Amendments of 1972; Section 504 of the Rehabilitation Act of 1973, as amended; and Title II of the Americans with Disabilities Act.*

*The Texas Education Agency and the Texas State Board of Education often update information, especially in the areas of assessment, accountability, and graduation plans. The information in this guide is accurate as of the time it went to print. This document is updated as information becomes available.*

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# Section I: Academic Guide

## Student Information

### Classification of Students

The following standards apply to grade classification. Standing is determined at the start of each school year. Classification is for the complete school year.

- **Freshman:** A student entering high school for the first time or having fewer than 6 credits.
- **To Become a Sophomore:** A student in the second year of high school who has earned a minimum of 6 credits will be classified as a sophomore.
- **To Become a Junior:** A student in the third year of high school who has earned a minimum of 12 credits will be classified as a junior.
- **To Become a Senior:** A student who has earned a minimum of 18 credits and who is enrolled in a program that will allow for graduation will be classified as a senior.

Students that are enrolled in the correct number of credits to graduate in the current school year may also be classified as a senior with principal approval.

### Class Loads

In order to qualify as a full time student Frisco ISD students must be enrolled in at least the equivalent of 6 credit classes each semester, 5 of which must be state credits. Since FUSD high schools have an eight period schedule, early dismissal permits may be granted for 11th and 12th grade students if they are satisfactorily progressing toward graduation. All 9th and 10th grade students must be enrolled in eight class periods.

### STAAR End of Course Exams (EOCs)

Students in the class of 2015 and beyond will take STAAR End of Course (EOC) Assessments in accordance with state law. Satisfactory performance on all EOCs is a graduation requirement. Students not meeting satisfactory performance on EOCs will be given the opportunity to retest three times per year in accordance to the state testing calendar. A four-hour time limit applies to Algebra I, Biology, and U.S. History. A five-hour time limit applies to English I and English II.

All students enrolled in courses with STAAR EOC assessments will take the exam. Courses with STAAR EOC Assessments:

- English I & II
- Algebra I
- Biology
- U.S. History

End of course exams occur in the late Spring. Dual credit students in US History will take the EOC for US History in the December testing window.

Middle school students enrolled in high school EOC tested courses will only be required to take the EOC assessment for the courses that they are enrolled in.

### **Performance Labels**

The labels for the performance categories are:

- Masters Grade Level
- Meets Grade Level
- Approaches Grade Level
- Did Not Meet Grade Level

### **Students Not Meeting “Approaches Grade Level” Standard on EOC**

The “Approaches Grade Level” standard is considered “passing” on each EOC. Additional academic support will be provided by the district for students failing to meet this standard for each assessment. Parents and students will receive information regarding additional support and test dates. Students may not be eligible for late arrival/early release as juniors and seniors if they have failed to meet the requirements of the STAAR assessment program.

### **8th Grade STAAR**

8th grade students must meet the Approaches Grade Level standard on both Math and Reading STAAR assessments. When students do not meet the level within the three available testing administrations, the Grade Placement Committee, along with the parent and student will meet to determine a plan. The committee determines whether to place the student in 9th grade and to develop a plan for accelerated instruction during the next school year to ensure the student meets the standards set for the 9<sup>th</sup> grade courses. The Grade Placement Committee may promote a student who they believe can achieve grade level performance with accelerated instruction within the ninth grade year. Accelerated instruction plans may include tutorials or intervention courses designed to provide students with the skills needed for success.

***Special Note:*** *Be advised that the laws for assessment and accountability will continue to be analyzed and interpreted by the Texas Education Agency (TEA). This document will be updated as new information is provided by TEA.*



## Grading System

Student academic evaluation is achieved through the use of a grading system. An average grade of 70 is required for successful completion of a course. The grading system of the Frisco Independent School District shall be in accordance with the following scale:

**A:** 90-100

**B:** 80-89

**C:** 70-79

**F:** Below 70

One-half credit may be earned in one semester. Students who fail one semester of a course may:

- a. Take the semester failed when offered to gain a passing grade or explore other credit recovery options.
- b. Continue the course and average pass during the school year. First and second semester grade final average must equate to 70 for average pass.
- c. If the course is not required for graduation, the student may select another elective at semester.

Each teacher is required to effectively communicate their grading standards to students and parents. Grade reports are posted each six weeks, usually on the Friday following the end of the grading period. Progress reports to parents are posted at three-week intervals. All FISD secondary schools participate in the Home Access Center, a web-based communications system that allows parents and students to obtain information online regarding the student's current grades as well as assignment information. Students and parents will be given instructions regarding utilization of this system at the beginning of the year.

# Graduation Requirements

## Foundation High School Program and Endorsements

House Bill 5 was signed into law in the summer of 2013 and applies to all students entering high school during the 2014-15 school year and thereafter. House Bill 5 established a single graduation program, the Foundation High School Program (FHSP). Students will also have the opportunity to build on the FHSP by earning Endorsements, Performance Acknowledgements, and a Distinguished Level of Achievement. Students will need to declare their preferred endorsement area, in writing, by the beginning of their 9th grade year. Students have opportunities to change endorsement areas throughout their high school career; see counselor for information.

An endorsement can be earned by taking additional courses in Career and Technical Education (CTE) or by taking additional non-CTE courses specified within the endorsement requirements.

The endorsement areas are:

- Arts & Humanities
- Business & Industry
- Multidisciplinary
- Public Service
- Science, Technology, Engineering & Math (STEM)

FISD offers courses to meet endorsements in all areas. There are specific course requirements in the foundation curriculum based on the Endorsement selected; however, most students meet the requirement of multiple endorsements without making a special effort to do so. Students should select electives that will best prepare the student for the post-secondary goals they aim to pursue.

A student may elect to graduate without an endorsement under the high school foundation program with school administrator approval after the student's sophomore year. The student and the student's parent or guardian must be advised by the school counselor of the benefits of graduating with one or more endorsement and the student's parent or guardian must file written permission with the high school allowing the student to graduate without an endorsement.

*The default for all FISD students is the Distinguished Level of Achievement.*

**More detailed information about the graduation programs and endorsements may be found at:**

<http://www.friscoisd.org/departments/guidance-and-counseling/academic-advisement/graduation-plans>

## **Distinguished Level of Achievement (DLA) (26 credits)**

The Distinguished Level of Achievement (DLA) is the highest graduation program in the state of Texas for students entering high school in 2014-2015 and beyond. The Foundation High School Program +Endorsement with DLA is the default for all FISD students.

A student may earn a Distinguished Level of Achievement by successfully completing the curriculum requirements that meet and exceed the Foundation Program and successfully completing the following:

- The curriculum requirements for one or more Endorsement(s) to include a coherent sequence of courses that are content specific to the chosen endorsement
- Additional coursework to include:
  - Four credits in mathematics, including Algebra II
  - Four credits in approved science courses

## **Foundation High School Program + Endorsement (26 credits)**

Endorsements are described in detail in the “Frisco ISD Graduation Guide for the Class of 2018 & Beyond” <http://www.friscoisd.org/ly/departments/GuidanceCounseling/graduationplans2018.htm>

This guide includes: core course requirements by endorsement, sample four-year graduation programs, and Frisco ISD course offerings by endorsement. The curriculum requirements for earning an endorsement require a student to meet and exceed the Foundation Program and successfully completing the following:

- The curriculum requirements for one or more Endorsement(s) to include a coherent sequence of courses that are content specific to the chosen endorsement
- Additional coursework to include:
  - Four credits in mathematics
  - Four credits in approved science courses

*Note: The only difference between the FHSP+Endorsement Program and the DLA is the requirement that Algebra II must be one of the four credits in mathematics.*

## **Foundation High School Program (FHSP) (25 credits)**

This option is the minimum graduation program available. However, it is not available until after the completion of the sophomore year. Changing to this graduation program will require parent and administrative approval in writing. Parents and students need to understand graduating on this program may not meet college or university entrance requirements.

# Graduation Programs

SUBJECT AREA	FOUNDATION HIGH SCHOOL PROGRAM <i>(May only be selected at the conclusion of the 10th grade year)</i>	FHSP+ENDORSEMENT <i>with option of</i> DISTINGUISHED LEVEL OF ACHIEVEMENT
<b>ENGLISH</b>	<b>4 Credits</b> <ul style="list-style-type: none"> <li>• English I</li> <li>• English II</li> <li>• English III</li> <li>• English IV or College Readiness</li> </ul>	<b>4 Credits</b> <ul style="list-style-type: none"> <li>• English I</li> <li>• English II</li> <li>• English III</li> <li>• English IV or College Readiness</li> </ul>
<b>MATH</b>	<b>3 Credits</b> <ul style="list-style-type: none"> <li>• Algebra I</li> <li>• Geometry</li> <li>• 3rd Credit of Math* <i>(*If Math Models is taken, the class must be completed after Algebra I and prior to Algebra II)</i></li> </ul>	<b>4 Credits</b> <ul style="list-style-type: none"> <li>• Algebra I</li> <li>• Geometry</li> <li>• Algebra II <i>(Required for Distinguished Level of Achievement)</i></li> <li>• 4th Credit of Math * <i>(*If Math Models is taken, the class must be completed after Algebra I and prior to Algebra II)</i></li> </ul>
<b>SCIENCE</b>	<b>3 Credits</b> <ul style="list-style-type: none"> <li>• Biology</li> <li>• An additional credit must be selected from the following courses: <ul style="list-style-type: none"> <li><input type="checkbox"/> IPC</li> <li><input type="checkbox"/> Chemistry</li> <li><input type="checkbox"/> Physics</li> </ul> </li> <li>• One additional science credit selected from the course catalog</li> </ul>	<b>4 Credits</b> <ul style="list-style-type: none"> <li>• Biology</li> <li>• An additional credit must be selected from the following courses: <ul style="list-style-type: none"> <li><input type="checkbox"/> IPC</li> <li><input type="checkbox"/> Chemistry</li> <li><input type="checkbox"/> Physics</li> </ul> </li> <li>• Two additional science credits selected from the course catalog</li> </ul>
<b>SOCIAL STUDIES</b>	<b>4 Credits</b> <ul style="list-style-type: none"> <li>• World Geography</li> <li>• World History</li> <li>• U.S. History</li> <li>• Economics (.5 credit)</li> <li>• US Government (.5 credit)</li> </ul>	<b>4 Credits</b> <ul style="list-style-type: none"> <li>• World Geography</li> <li>• World History</li> <li>• U.S. History</li> <li>• Economics (.5 credit)</li> <li>• US Government (.5 credit)</li> </ul>
<b>FINE ARTS</b>	<b>1 Credit</b> Fine Arts (see course catalog for options)	<b>1 Credit</b> Fine Arts (see course catalog for options)
<b>SPEECH</b>	.5 Credit - Professional Communications	.5 Credit - Professional Communications
<b>HEALTH</b>	.5 Credit - Health	.5 Credit - Health
<b>TECHNOLOGY APPLICATIONS</b>	<b>1 Credit</b> Technology Applications (see course catalog for options)	<b>1 Credit</b> Technology Applications (see course catalog for options)
<b>FOREIGN LANGUAGE</b>	2 Credits from the Same Language	2 Credits from the Same Language
<b>PHYSICAL EDUCATION</b>	1 Credit (see course catalog for options)	1 Credit (see course catalog for options)
<b>ADDITIONAL COURSES</b>	5.0 Credits (see course guide for options)	4.0 Credits (see course catalog for options)
<b>TOTAL</b>	<b>25 CREDITS</b>	<b>26 CREDITS</b> (including 4 credits in a coherent sequence and content specific to an endorsement area.)

# FISD Graduation Program for Class of 2018 & Beyond

The default for Frisco ISD Students is the Distinguished Level of Achievement

## Foundation High School Program – 25 Credits

- 4 English Credits
- 3 Math Credits
- 3 Science Credits
- 4 Social Studies Credits
- 2 Foreign Language Credits
- 1 PE Credit
- 1 Fine Arts Credit
- ½ Health Credit
- ½ Speech Credit
- 1 Technology Credit
- 5 Elective Credits

Students must also meet standard on the EOC exams for English I, II, Algebra I, Biology, and US History

## Foundation High School Program + Endorsement – 26 Credits

- 1 Math Credit in addition to the Foundation Program
  - 1 Science Credit in addition to the Foundation Program
- At least 4 of the 26 Credits must be in a coherent sequence & content-specific to an Endorsement Area



**STEM**  
Computer  
Science  
Engineering  
Math  
Science

**Business & Industry**  
Adv. Journalism  
Agriculture  
Architecture  
Arts, AV Tech, &  
Communication  
Business Mgmt. &  
Admin.  
Finance  
Hospitality & Tourism  
Information Technology  
Marketing & Sports  
Mgmt.

**Arts & Humanities**  
Art  
Band  
Choir  
LOTE (World  
Languages)  
Orchestra  
Social Studies  
Theatre Arts

**Public  
Services**  
Education  
Government &  
Public Admin.  
Health Science  
Law & Public  
Safety

**Multi-Disciplinary**  
Core Academics  
Multi-Endorsement  
Workforce Ready  
College Ready

## Distinguished Level of Achievement – 26 Credits

- I Math Credit in addition to the Foundation High School Program- Math Sequence MUST include Algebra II
  - I Science Credit in addition to the Foundation Program
- At least 4 of the 26 Credits must be in a coherent sequence & content-specific to an Endorsement Area

## Performance Acknowledgements –Additional Recognition for Meeting Certain Criteria

- Advanced Coursework
- Bilingualism / Bi-Literacy
- Advanced Placement Examination
- College Ready Examination
- Workforce Readiness



# FISD ENDORSEMENT PATHWAYS\*

1 <sup>st</sup> Course in Sequence	2 <sup>nd</sup> Course in Sequence	3 <sup>rd</sup> Course in Sequence	4 <sup>th</sup> Course in Sequence
<b>ARTS &amp; HUMANITIES ENDORSEMENT</b> -Unless noted, this endorsement can be earned with 4 credits in a coherent sequence. Please view the FISD Course Catalog for prerequisites and other specifics.			
<b>Fine Arts - Art</b>			
<input type="checkbox"/> Art 1 <input type="checkbox"/> PAP Art 1 (Class of 2018 & Beyond) <input type="checkbox"/> 3D Modeling & Animation - Fine Arts Credit	<input type="checkbox"/> Art 2 <input type="checkbox"/> AP Art – Drawing <input type="checkbox"/> Art 2 – Ceramics	<input type="checkbox"/> Art 3 <input type="checkbox"/> AP Art – 2D or 3D <input type="checkbox"/> AP Art – Drawing	<input type="checkbox"/> Art 4 <input type="checkbox"/> AP Art – 3D <input type="checkbox"/> AP Art History
<b>Fine Arts - Dance</b>			
<input type="checkbox"/> Dance 1	<input type="checkbox"/> Dance 2	<input type="checkbox"/> Dance 3	<input type="checkbox"/> Dance 4
<b>Language</b>			
<input type="checkbox"/> Spanish 1 <input type="checkbox"/> French 1 <input type="checkbox"/> Chinese 1 <input type="checkbox"/> ASL 1	<input type="checkbox"/> Spanish 2 or PAP Spanish 2 <input type="checkbox"/> French 2 or PAP French 2 <input type="checkbox"/> Chinese 2 <input type="checkbox"/> ASL 2	<input type="checkbox"/> Spanish 3 or PAP Spanish 3 <input type="checkbox"/> French 3 or PAP French 3 <input type="checkbox"/> PAP Chinese 3	<input type="checkbox"/> AP Spanish 4 <input type="checkbox"/> AP French 4 <input type="checkbox"/> Chinese 4
<b>Fine Arts - Music</b>			
<input type="checkbox"/> Band 1 <input type="checkbox"/> Orchestra 1 <input type="checkbox"/> Choir 1	<input type="checkbox"/> Band 2 <input type="checkbox"/> Orchestra 2 <input type="checkbox"/> Choir 2	<input type="checkbox"/> Band 3 <input type="checkbox"/> Orchestra 3 <input type="checkbox"/> Choir 3	<input type="checkbox"/> Band 4 <input type="checkbox"/> Orchestra 4 <input type="checkbox"/> Choir 4
<b>Social Studies – Students must earn 5 total credits in Social Studies</b>			
<input type="checkbox"/> World Geography <input type="checkbox"/> AP Human Geography	<input type="checkbox"/> World History OR AP World History <input type="checkbox"/> GT Humanities II / AP World History <input type="checkbox"/> AP Seminar	<input type="checkbox"/> US History or AP US History <input type="checkbox"/> Psychology (1/2) or AP Psychology (1/2) or Sociology (1/2) <input type="checkbox"/> AP European History <input type="checkbox"/> AP Seminar	<input type="checkbox"/> US Government (1/2) or AP US Government (1/2) <input type="checkbox"/> Economics (1/2) or AP Economics (1/2) <input type="checkbox"/> Dual Credit US. Govt. (1/2) & Dual Credit Economics (1/2) <input type="checkbox"/> AP Seminar
<b>Fine Arts - Theatre</b>			
<input type="checkbox"/> Theatre Arts 1 <input type="checkbox"/> Tech Theater 1	<input type="checkbox"/> Theatre Arts 2 / Theatre Production 1 <input type="checkbox"/> Tech Theater 2	<input type="checkbox"/> Theatre Arts 3 / Theatre Production 2 <input type="checkbox"/> Tech Theater 3	<input type="checkbox"/> Theatre Arts 4 / Theatre Production 3 <input type="checkbox"/> Tech Theater 4
<b>BUSINESS &amp; INDUSTRY ENDORSEMENT</b> -Unless noted, this endorsement can be earned with 4 credits in a coherent sequence. Please view the FISD Course Catalog for prerequisites and other specifics.			
<b>Advanced Journalism</b>			
<input type="checkbox"/> Journalism or Photojournalism <input type="checkbox"/> Broadcast 1 <input type="checkbox"/> Debate 1	<input type="checkbox"/> Yearbook 1 <input type="checkbox"/> Broadcast 2 <input type="checkbox"/> Debate 2	<input type="checkbox"/> Yearbook 2 <input type="checkbox"/> Broadcast 3 <input type="checkbox"/> Debate 3	<input type="checkbox"/> Yearbook 3 <input type="checkbox"/> Video Technology <input type="checkbox"/> Adv Public Speaking
<b>Agriculture, Food &amp; Natural Resources – Animal Science OR Veterinary Assistant</b>			
<input type="checkbox"/> Survey of Agriculture, Food & Natural Res (1) <input type="checkbox"/> Wildlife, Fisheries, & Eco Mgmt. (1)	<input type="checkbox"/> Equine Science (1/2) <input type="checkbox"/> Small Animal Management (1/2) <input type="checkbox"/> Livestock Production (1)	<input type="checkbox"/> CTEC – Veterinary Medical Applications (1)	<input type="checkbox"/> CTEC – Adv Animal Science (1) (Science Credit) <input type="checkbox"/> CTEC - Practicum in Vet Med Apps (2) Internship
<b>Agriculture, Food &amp; Natural Resource - Floral Design OR Horticulture &amp; Landscape Design</b>			
<input type="checkbox"/> Survey of Agriculture, Food & Natural Res (1)	<input type="checkbox"/> Floral Design (1) (Fine Arts Credit) <input type="checkbox"/> CTEC – Horticulture Science (1) <input type="checkbox"/> CTEC – Landscape Design and Mgmt. (1/2)	<input type="checkbox"/> CTEC – Advanced Floral Design (1) <input type="checkbox"/> CTEC – Greenhouse Operation & Production (1)	<input type="checkbox"/> CTEC – Adv Plant & Soil Science (1) (Science Credit)



# FISD ENDORSEMENT PATHWAYS\*

1 <sup>st</sup> Course in Sequence	2 <sup>nd</sup> Course in Sequence	3 <sup>rd</sup> Course in Sequence	4 <sup>th</sup> Course in Sequence
<b>Agriculture, Food &amp; Natural Resource - Ag Mechanics</b>			
<input type="checkbox"/> Agricultural Mechanics & Metal Technologies (1) <input type="checkbox"/> Survey of Ag, Food & Natural Res (1)	<input type="checkbox"/> <u>Ag Structures Design &amp; Fabrication (1)</u>	<input type="checkbox"/> <u>CTEC – Ag Equipment Design &amp; Fabrication (1)</u> <input type="checkbox"/> <u>CTEC – Introduction to Welding (1)</u>	<input type="checkbox"/> <u>CTEC – Practicum In Ag Structures &amp; Equipment (2)</u>
<b>Architecture &amp; Construction</b>			
<input type="checkbox"/> CTEC – Architecture & Construction I (1)	<input type="checkbox"/> <u>CTEC – Architecture &amp; Construction II (1)</u> <input type="checkbox"/> Interior Design I (1)	<input type="checkbox"/> <u>CTEC - Architectural Design I (1)</u> <input type="checkbox"/> Interior Design II (2)	<input type="checkbox"/> <u>CTEC –Architectural Design II (2) Internship</u>
<b>Arts, AV Technology &amp; Communication – Audio &amp; Video Production</b>			
<input type="checkbox"/> TV Broadcast I	<input type="checkbox"/> <u>TV Broadcast II</u>	<input type="checkbox"/> <u>CTEC – Audio/Video Production I (2)</u>	<input type="checkbox"/> <u>CTEC – Audio/Video Production II (2)</u>
<b>Arts, AV Technology &amp; Communication – Graphic Design &amp; Illustration</b>			
<input type="checkbox"/> Digital Media (1)	<input type="checkbox"/> <u>CTEC - Graphic Design &amp; Illustration I (2)</u> <input type="checkbox"/> <u>CTEC – Web Technologies (1)</u>	<input type="checkbox"/> <u>CTEC – Graphic Design &amp; Illustration II (2)</u>	<input type="checkbox"/> <u>CTEC – Pract in Graphic Design &amp; Illustration (2) Internship</u>
<b>Arts, AV Technology &amp; Communication – Animation</b>			
<input type="checkbox"/> 3D Modeling & Animation (1) (Fine Arts Credit)	<input type="checkbox"/> <u>CTEC – Animation I (2)</u>	<input type="checkbox"/> <u>CTEC – Animation II (2)</u>	<input type="checkbox"/> <u>CTEC – Practicum in Animation (2)</u>
<b>Arts, AV Technology &amp; Communication – Fashion Design</b>			
<input type="checkbox"/> Survey of Business, Marketing & Finance (1)	<input type="checkbox"/> Fashion Design I (1) <input type="checkbox"/> Fashion Marketing (1/2)	<input type="checkbox"/> <u>Fashion Design II (1)</u>	<input type="checkbox"/> <u>CTEC – Practicum in Marketing (3) Internship</u>
<b>Business Management &amp; Administration</b>			
<input type="checkbox"/> Business Information Management I (1) <input type="checkbox"/> Survey of Business, Marketing & Finance (1)	<input type="checkbox"/> <u>CTEC – Business Information Management II (1)</u> <input type="checkbox"/> Entrepreneurship (1)	<input type="checkbox"/> Business Law (1) <input type="checkbox"/> Global Business (1/2)	<input type="checkbox"/> <u>CTEC – Practicum in Marketing (3) Internship</u>
<b>Financial Systems</b>			
<input type="checkbox"/> Survey of Business, Marketing & Finance (1)	<input type="checkbox"/> Accounting I (1) <input type="checkbox"/> Banking & Financial Services (1/2) <input type="checkbox"/> Dollars & Sense (1/2)	<input type="checkbox"/> <u>CTEC – Accounting II (1)</u> <input type="checkbox"/> <u>CTEC – Money Matters (1)</u>	<input type="checkbox"/> <u>CTEC – Securities &amp; Investments (1)</u>
<b>Hospitality &amp; Tourism</b>			
<input type="checkbox"/> Survey of Hospitality & Tourism (1)	<input type="checkbox"/> Introduction to Culinary Arts (1) <input type="checkbox"/> <u>CTEC - Hotel Management (1)</u> <input type="checkbox"/> <u>Travel &amp; Tourism Management (1)</u>	<input type="checkbox"/> <u>CTEC – Culinary Arts (2)</u> <input type="checkbox"/> <u>CTEC – Hospitality Services (2)</u>	<input type="checkbox"/> <u>CTEC – Advanced Culinary Arts (2) Articulated Credit</u> <input type="checkbox"/> <u>CTEC – Baking &amp; Pastry (1) Dual Credit</u> <input type="checkbox"/> <u>CTEC – Practicum in Hospitality Services (2) Internship</u> <input type="checkbox"/> <u>Food Science (1) (Science Credit)</u>
<b>Information Technology</b>			
<input type="checkbox"/> Computer Maintenance (1) <b>Articulated Credit</b> <input type="checkbox"/> Survey of Information Technology (1)	<input type="checkbox"/> CTEC - Networking (1) <b>Articulated Credit</b>	<input type="checkbox"/> <u>CTEC – Internet Working I (CISCO 1 &amp; 2) Articulated Credit</u>	<input type="checkbox"/> <u>CTEC – Internet Working II (CISCO 3 &amp; 4) Dual Credit</u>



# FISD ENDORSEMENT PATHWAYS\*

1 <sup>st</sup> Course in Sequence	2 <sup>nd</sup> Course in Sequence	3 <sup>rd</sup> Course in Sequence	4 <sup>th</sup> Course in Sequence
<b>Marketing, Sales, &amp; Service</b>			
<input type="checkbox"/> Survey of Business, Marketing & Finance (1) <input type="checkbox"/> Fashion Marketing (1/2) <input type="checkbox"/> Digital Media (1)	<input type="checkbox"/> Sports & Entertainment Marketing (1/2) <input type="checkbox"/> CTEC - Social Media Marketing (1/2) <input type="checkbox"/> CTEC – Advertising (1/2)	<input type="checkbox"/> Entrepreneurship (1)	<input type="checkbox"/> CTEC – Practicum in Marketing (3) <b>Internship</b>
<b>Sports &amp; Entertainment Management</b>			
<input type="checkbox"/> Survey of Business, Marketing & Finance (1) <input type="checkbox"/> Survey of Hospitality & Tourism (1) <input type="checkbox"/> Digital Media (1)	<input type="checkbox"/> CTEC – Social Media Marketing (1/2) <input type="checkbox"/> CTEC – Advertising (1/2)	<input type="checkbox"/> Sports & Entertainment Marketing (1/2)	<input type="checkbox"/> CTEC – Sports Management (2) <b>Articulated Credit/Internship</b>
<b>Transportation, Distribution &amp; Logistics</b>			
<input type="checkbox"/> Geometry	<input type="checkbox"/> Algebra II	<input type="checkbox"/> CTEC–Foundational Concepts of Aviation Studies (Semester 1)(1/2) <b>Dual Credit</b> <input type="checkbox"/> CTEC–Aircraft Systems for Pilots (Semester 2) (1/2) <b>Dual Credit</b>	<input type="checkbox"/> CTEC–Flight Science I (Semester 3) (1/2) <b>Dual Credit</b> <input type="checkbox"/> CTEC–Power Plant Systems for Pilots (Semester 4) (1/2) <b>Dual Credit</b>
<b>MULTIDISCIPLINARY ENDORSEMENT –This is the recommended approach for this endorsement. Please view the FISD Course Catalog for prerequisites and other specifics.</b>			
<b>Core Courses – 16 total credits; select one credit from each core area in each sequence box (Dual Credit Courses in these areas count towards the requirements)</b>			
<input type="checkbox"/> English 1 / PAP English 1 / GT Humanities I <input type="checkbox"/> Biology / PAP Biology <input type="checkbox"/> Algebra 1 / PAP Algebra 1 <input type="checkbox"/> World Geography / AP Human Geography	<input type="checkbox"/> English 2 / PAP English 2 <input type="checkbox"/> Chemistry / PAP Chemistry <input type="checkbox"/> Geometry / PAP Geometry <input type="checkbox"/> World History / AP World History / GT Humanities II	<input type="checkbox"/> English 3 / AP English Language <input type="checkbox"/> Physics / AP Physics 1 <input type="checkbox"/> Algebra 2 / PAP Algebra 2 <input type="checkbox"/> US History / AP US History	<input type="checkbox"/> English 4 / AP English Literature <input type="checkbox"/> AP Physics 2 / AP Physics C / AP Biology / AP Chemistry / or other 4 <sup>th</sup> Science <input type="checkbox"/> Pre Calculus / AP Calculus / or other 4 <sup>th</sup> Math <input type="checkbox"/> Government (1/2) & Economics (1/2) or AP Government (1/2) & AP Economics (1/2)
<b>PUBLIC SERVICE ENDORSEMENT –Unless noted, this endorsement can be earned with 4 credits in a coherent sequence. Please view the FISD Course Catalog for prerequisites and other specifics.</b>			
<b>Education &amp; Training</b>			
<input type="checkbox"/> Survey of Education & Training (1)	<input type="checkbox"/> Child Development (1) <input type="checkbox"/> Interpersonal Studies (1/2)	<input type="checkbox"/> CTEC –Education & Training (2) <b>Internship</b> <input type="checkbox"/> CTEC – Child Guidance (2) <b>Internship</b>	<input type="checkbox"/> CTEC – Practicum in Education & Training (2) <b>Internship</b> <input type="checkbox"/> CTEC – Practicum in Child Guidance(2) <b>Internship</b>
<b>Government &amp; Public Administration</b>			
<input type="checkbox"/> CTEC - Survey of Gov't & Public Admin (1)	<input type="checkbox"/> CTEC – Court Systems & Practices (1) <input type="checkbox"/> CTEC – Political Science (1)	<input type="checkbox"/> CTEC – Mock Trial (1)	<input type="checkbox"/> CTEC - Practicum in Government (2) <b>Internship</b> <input type="checkbox"/> CTEC – Foreign Service & Diplomacy (1)
<b>Health Science</b>			
<input type="checkbox"/> Medical Terminology (1)	<input type="checkbox"/> <u>Health Science (1) (Health Credit)</u> <input type="checkbox"/> <u>Anatomy &amp; Physiology (1)</u>	<input type="checkbox"/> <u>Health Science Clinical (2) Articulated Credit/Internship</u> <input type="checkbox"/> <u>CTEC - Pathophysiology (1) (Science Credit)</u> <input type="checkbox"/> <u>CTEC - Medical Microbiology (1) (Science Credit)</u> <input type="checkbox"/> Medical Terminology (1) CC Online <input type="checkbox"/> Intro to the Healthcare System (1) CC Online	<input type="checkbox"/> CTEC – Electrocardiography <b>Dual Credit/Internship</b> <input type="checkbox"/> CTEC – Emergency Medical Technician (2) <b>Dual Credit</b> <input type="checkbox"/> Pharmacology (1)
<b>Law, Public Safety, Corrections, &amp; Security</b>			
<input type="checkbox"/> CTEC - Survey of Law, Public Safety, Corrections & Security (1)	<input type="checkbox"/> <u>CTEC – Law Enforcement I (1)</u>	<input type="checkbox"/> <u>CTEC - Law Enforcement II (1)</u>	<input type="checkbox"/> <u>CTEC – Forensic Science (1) (Science Credit)</u>





# FISD ENDORSEMENT PATHWAYS\*

STEM ENDORSEMENT -Unless noted, this endorsement can be earned with 4 credits in a coherent sequence. Please view the FISD Course Catalog for prerequisites and other specifics.			
Computer Science – In addition to Algebra 2, Chemistry, & Physics			
<input type="checkbox"/> Computer Science (1) <input type="checkbox"/> PAP Computer Science (1)	<input type="checkbox"/> AP Computer Science (1)	<input type="checkbox"/> CTEC – Video Game Design (1) <input type="checkbox"/> Advanced Computer Science (1)	<input type="checkbox"/> CTEC – Mobile Application Programming (1)
Math – 5 Total Math Credits (Completion of TWO additional math courses AFTER completion of Algebra2) - In addition to Chemistry & Physics			
<input type="checkbox"/> PAP Algebra 1 / Algebra 1 <input type="checkbox"/> Geometry / PAP Geometry	<input type="checkbox"/> Algebra 2 / PAP Algebra 2 <input type="checkbox"/> AP Computer Science (1)	<input type="checkbox"/> Advanced Quantitative Reasoning <input type="checkbox"/> Pre-Calculus / PAP Pre-Calculus	<input type="checkbox"/> AP Statistics <input type="checkbox"/> Bus. Calculus (1/2) / College Algebra (1/2) <b>Dual Credit</b> <input type="checkbox"/> AP Calculus AB <input type="checkbox"/> AP Calculus BC
1 <sup>st</sup> Course in Sequence	2 <sup>nd</sup> Course in Sequence	3 <sup>rd</sup> Course in Sequence	4 <sup>th</sup> Course in Sequence
Science – 5 Total Science Credits (Completion of TWO additional science courses AFTER completion of Physics) – In addition to Algebra 2			
<input type="checkbox"/> Biology / PAP Biology	<input type="checkbox"/> Chemistry / PAP Chemistry <input type="checkbox"/> Anatomy & Physiology <input type="checkbox"/> Physics / AP Physics 1	<input type="checkbox"/> Environmental Systems <input type="checkbox"/> AP Environmental Science <input type="checkbox"/> AP Biology <input type="checkbox"/> AP Chemistry <input type="checkbox"/> Earth & Space Science	<input type="checkbox"/> AP Physics B <input type="checkbox"/> AP Physics C <input type="checkbox"/> CTEC - Medical Microbiology (1) <input type="checkbox"/> CTEC - Pathophysiology (1) <input type="checkbox"/> Forensic Science ( <i>check pre-requisites</i> ) <input type="checkbox"/> Advanced Animal Science ( <i>check pre-requisites</i> ) <input type="checkbox"/> Food Science ( <i>check pre-requisites</i> )
Science, Technology, Engineering & Mathematics			
<input type="checkbox"/> CTEC – PLTW - Introduction to Engineering Design (1)	<input type="checkbox"/> CTEC – PLTW - Principles of Engineering Design (1) <input type="checkbox"/> CTEC – PLTW - Civil Engineering & Architecture (1)	<input type="checkbox"/> CTEC – PLTW - Digital Electronics (1) <input type="checkbox"/> CTEC – PLTW - Aerospace Engineering (1)	<input type="checkbox"/> CTEC – PLTW - Engineering Design & Development (1)
1 <sup>st</sup> Course in Sequence	2 <sup>nd</sup> Course in Sequence	3 <sup>rd</sup> Course in Sequence	4 <sup>th</sup> Course in Sequence

\*Students do NOT NEED to take EVERY course listed under each sequence, nor are these prescribed sequences for students – these are recommended sequences only. There are MANY options in each endorsement and in each pathway. The default plan for FISD student is the Distinguished Level of Achievement, which requires Alg. II to be in the math sequence of the student's endorsement plan. Please consult your counselor, the FISD Course Catalog, the FISD Academic Guide, or the CTE Center Counseling Department for additional information on other possible endorsement or pathway course selections.

# GPA and RANK IN CLASS POLICY

Rank in class, honor graduate status, valedictorian, and salutatorian determination shall be based on a weighted grade point average (GPA) system. Grade points shall be based on semester grades for courses taken in grades 9–12 and courses taken in middle school for high school credit. The GPA shall be computed to three decimal places. The average of the fourth and fifth six-week grades in the semester prior to graduation shall count as a semester grade for purposes of determining rank, honor graduate status, valedictorian, and salutatorian.

## GPA Exempt Courses

All high school credit courses taken during the regular school year shall count toward the GPA, except for the following: aide positions, peer tutoring, SAT-prep classes, college credits that are not dual credits, driver’s education, credit by examination credits, correspondence school courses, and online courses (online courses taken outside of FISD and school day). No credit or grade points shall be assigned for summer enrichment programs. Note - Successful completion of FISD Summer School courses will result in credit being awarded, but GPA will not be calculated for summer school courses.

## Weighted Grades

All numeric grades shall be converted to a weighted scale (see chart). No grade points shall be awarded for any grade below a 70.

Grade Point	AP/PAP	College Dual Credit	Regular
6.0	100		
5.9	99		
5.8	98		
5.7	97		
5.6	96		
5.5	95	100	
5.4	94	99	
5.3	93	98	
5.2	92	97	
5.1	91	96	
5.0	90	95	100
4.9	89	94	99
4.8	88	93	98
4.7	87	92	97
4.6	86	91	96
4.5	85	90	95
4.4	84	89	94
4.3	83	88	93
4.2	82	87	92
4.1	81	86	91
4.0	80	85	90
3.9	79	84	89
3.8	78	83	88
3.7	77	82	87
3.6	76	81	86
3.5	75	80	85
3.4	74	79	84
3.3	73	78	83
3.2	72	77	82
3.1	71	76	81
3.0	70	75	80
2.9	<70 no points	74	79
2.8		73	78
2.7		72	77
2.6		71	76
2.5		70	75
2.4		<70 no points	74
2.3			73
2.2			72
2.1			71
2.0			70
			<70 no points

## Valedictorian and Salutatorian Requirements

Each district high school shall have a valedictorian and salutatorian. Candidates must be 8 semester graduates and in attendance at the awarding high school continuously, commencing with enrollment no later than the first day of the second six-week grading period of the student's junior year through graduation. The valedictorian shall be the eligible graduate with the highest GPA; the salutatorian shall be the eligible graduate with the second highest GPA.

## Ties

In case of a tie, the tie shall be broken with the following series of tiebreakers: Count the number of AP® classes taken (the highest number shall be declared valedictorian). If still tied, add to this count the number of Pre-AP courses taken. If still tied, add to this count the number of honors courses taken. If still tied, average the junior and senior years only.

## Honor Graduates

Each level of Honor Graduates will be determined by the student's grade point average at the end of the fifth six weeks which will be no lower than 4.0 with no rounding. Three levels of Honor Graduates will be denoted: Summa Cum Laude – Top 10 graduates; Magna Cum Laude – Top 10 percent of graduates; and Cum Laude – Graduates with Grade Point Average of 4.0 or above.

## Transfer Students

All transferred credits will be calculated for GPA in accordance with FISD guidelines (see TRANSFER GRADES). Weighted GPA points for an advanced course will be awarded only if:

- the course is recorded as advanced on an official Academic Achievement Record (AAR)
- *and*
- a comparable course was offered in FISD during the same school year.

## Transfer Grades - Transcripts from within the United States:

When a transcript is received from an accredited school within the United States, credit and GPA points will be awarded following review by the school staff. All academic information (including course type and grades) must be noted on an official transcript. Courses will be interpreted to Texas equivalency courses/credits and used to determine course sequencing. The list below will be used to determine the numerical equivalents to letter grades, when letter grades are all that is listed on the transcript. If a numerical range is listed on the transcript, the midpoint will be calculated and used.

91 for A-	81 for B-	71 for C-
95 for A	85 for B	75 for C
98 for A+	88 for B+	78 for C+

(If prior district awarded credit for a D, a grade of 70 would be transferred.)

All transferred credits will be calculated for GPA in accordance with FISD guidelines (see TRANSFER GRADES). Weighted GPA points for an advanced course will be awarded only if:

- the course is recorded as advanced on an official Academic Achievement Record (AAR)
- *and*
- a comparable course was offered in FISD during the same school year.

## **Transfer Grades - Transcripts from outside the United States:**

Parents are responsible for providing a transcript translated into English if translation is required. Courses will be interpreted to Texas equivalency courses/credits and used to determine course sequencing. Transcripts from outside of the United States (except for accredited international schools or Department of Defense schools as described as above) will not receive a letter grade or numerical equivalency. A "P" for passing will be assigned to designate that credit was earned and GPA points are not awarded. The maximum number of transcribed course credits that may be awarded via transcript per school year is eight. Credit is awarded based on review by school staff.

International schools accredited by US entities delivering the majority of the instruction in English, including Department of Defense schools, will be reviewed in the same manner as transcripts received from accredited schools from within the United States. Credit and GPA points may be awarded following review by school staff.

## **Credit for Languages Other Than English:**

If a student took courses in a native language in a high school or middle school outside of the United States and the transcript includes credit for the courses labeled with the language, credit shall be awarded. If there is no literature or language credit listed on the transcript, no LOTE credit shall be awarded.

Students may be awarded credit for successful completion of concurrent enrollment Languages Other Than English (LOTE) courses not offered by the district from an accredited school within the United States. The concurrent enrollment LOTE course must be taken outside of normal school hours. GPA points will not be awarded for these credits. Students can earn a maximum of two credits for the purpose of meeting graduation requirements for LOTE courses not offered in Frisco ISD. All LOTE programs seeking to be considered for credit must meet specific criteria and be pre-approved by the District LOTE Coordinator.

# Career and Technical Education

## **Mission & Purpose of Career and Technical Education**

The mission of Career and Technical Education is to prepare students to succeed in high demand occupations within the competitive global economy and to provide students with the academic skills necessary to continue their education in post-secondary schools. Career and Technical Education can help students explore their potential and establish future career goals. Students can use the Career Programs of Study to choose courses that interest them. Students do not need to take every course listed under each grade level as there are many options within each program.

## **The Career & Technical Education Center (CTEC)**

The Frisco ISD CTE Center houses advanced CTE courses for Frisco ISD high school students. Students will remain on their “home” campus for all coursework with the exception of the courses designated as (CTEC) which are taught at the Frisco ISD CTE Center.

The Frisco ISD CTE Center allows students to explore post-secondary and career options at an increased academic level with a relevant, industry-standard learning experience. Students are able to pursue an interest rather than make a life-long commitment. This allows an opportunity for students to choose courses that truly interest them, providing a meaningful connection to the curriculum and school. Due to limitations in some field site placements, the competitive nature of the programs, completing the pre-requisites do not guarantee a position in some of the advanced CTE Courses offered at the CTE Center.

Programs at the Frisco ISD CTE Center may have fees associated with them for lab materials, supplies, student organization costs, industry-standard or professional certification examinations and uniforms or standard dress requirements.

Frisco ISD will provide transportation to and from the CTE Center during the instructional day. At times, CTE Center courses may conflict with non-academic activities on the home campus. Students will be expected to remain in their academic classes at the CTE Center. CTE Center students are also expected to maintain good attendance, behavior and grades.

The Frisco ISD CTE Career Programs of Study are available at:

<http://schools.friscoisd.org/spc/cte> or by contacting the Frisco ISD CTE Center at 469-633-6780.

## **CTE Courses and Dual and Articulated College Credit**

The intent of offering dual and articulated college credit is to provide the student with academic and workplace skills that will allow the individual to successfully enter post-secondary education, the job market, or the military. All students, including special populations, and non-traditional populations, have equal access to all of these programs of study. Dual and articulated college credit encourages high skill attainment in both academic and technical areas and utilizes technology in the classroom.

## **CTE Courses and Technology Credit**

Classes that may count (as credit or as a waiver) for FISD Graduation Credit towards Technology:

- 3D Modeling & Animation (Digital Graphics & Animation)
- Architectural Design I
- Architecture & Construction I
- TV Broadcast
- Photojournalism
- Business Information Management I
- Computer Maintenance
- Computer Science or PAP Computer Science
- Digital Media (Digital & Interactive Media)
- Introduction to Engineering Design
- Journalism
- Newspaper
- Web Technologies
- Yearbook

## **CTE Courses and Science Credit**

CTE Classes that may count (as credit or as a waiver) for FISD Graduation Credit as a 4th Science:

- Advanced Animal Science
- Advanced Plant & Soil Science
- Food Science
- Forensic Science
- Medical Microbiology
- Pathophysiology

## **CTE Courses and Fine Arts Credit**

CTE Classes that may count (as credit or as a waiver) for FISD Graduation Credit towards Fine Arts:

- 3D Modeling & Animation (Digital Graphics & Animation)
- Floral Design

## CTE Courses and Math Credit

CTE Classes that may count (as credit or as a waiver) for FISD Graduation Credit as a 4th Math:

- AP Computer Science

## CTE Courses and Health Credit

CTE Classes that may count (as credit or as a waiver) for FISD Graduation Credit towards Health:

- Health Science Technology

Frisco Independent School District offers career and technical education programs listed in this document. Admission to these programs is based on grade level, age appropriateness, interest, class space availability, and aptitude. It is the policy of Frisco ISD not to discriminate on the basis of race, color, national origin, sex or handicap in its vocational programs, services or activities as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.

## Estimated Fees/Cost Associated with CTE Courses

Course	Fees/Costs
3D Modeling & Animation	\$25
Accounting I	\$18.50 Workbook
Accounting II	\$18.50 Workbook
Advanced Fashion Design	\$25
Advanced Floral Design	\$50
Aerospace Engineering	\$20
Ag Mechanics	\$30
Animation	\$25
Audio/Video Production	\$25
Child Guidance	\$30, \$3 CPR Certification
Culinary Arts & Advanced Culinary Arts	\$50, \$20 Uniform
Digital Electronics	\$20
Education & Training	\$30, \$3 CPR Certification
Electrocardiogram	\$200-\$300 Certification Exams, Health Screenings

Emergency Medical Technician	\$200-\$300 Certification Exams, Health Screenings
Fashion Design	\$25
Fashion Marketing	\$25
Floral Design	\$40
Food Science	\$25
Graphic Design & Illustration	\$25
Health Science	\$10 CPR Certification
Health Science Clinical	\$200-\$300 Certification Exams, Health Screenings
Horticulture	\$25
Interior Design	\$25
Introduction to Culinary Arts	\$50 ServSafe Exam, Lab Fees
Journalism/Photojournalism	\$50
Law Enforcement	\$50, \$3 CPR Certification
Marketing Dynamics	\$30 DECA Dues
Medical Microbiology	\$50 Lab Supplies
Mock Trial	\$10
Pathophysiology	\$25 Lab Supplies
Pharmacology	\$200-\$300 Certification Exams, Health Screenings
PLTW - Pre-Engineering	\$5-\$10
Practicum in Government	\$3 CPR Certification
Sports Management	\$30 DECA Dues
Surv Law, Public Safety, Corrections & Security	\$3 CPR Certification
TV Broadcast	\$50
Wildlife Management	\$5-\$10 Hunting Safety Permit



# DUAL CREDIT COURSES

Qualified students may be enrolled concurrently in a Fisd High school and Collin College for specified classes noted in the Fisd Course Catalog. Students in dual credit courses earn both high school and college credit. Students must meet Collin College admissions requirements and secure their high school counselor's approval for the dual credit courses selected. Students must successfully complete the Texas Success Initiative Examination (TSI) or provide proof of exemption from TSI, and an A/B grade point average is recommended.

Students are responsible for paying for tuition, books, and fees associated with Collin College dual credit courses. Scholarships for both tuition and books are available for dual credit students, and tuition may be waived for students receiving free or reduced lunch. Transportation is not provided to or from Collin College.

Courses are being added each year starting in the 2017-18 school year that will allow 2021 graduates to earn an Associate's Degree through Collin College while completing the requirements for a high school diploma.

All dual credit offerings are described in this section, and also listed under each content area, CTE, and Fine Arts. Students seeking to earn an Associate's Degree should secure academic advising provided through Collin College as well as their high school counselor to ensure their degree plan meets their needs. See counselors for details. Please note that if a student fails a dual credit course, he or she may not remain enrolled in that same subject for dual credit but will return to the home campus for instruction in that content area in the subsequent semester. However, a student may stay enrolled in dual credit courses for which they are eligible and have not yet failed in that subject area.

Some courses are being phased in year to year. This results in different course availability based on graduating class. Please see the following pages for sample course selections that might be made by a student in that graduating class. ***These are not intended to serve as set pathways, but to represent possible options for students and to demonstrate what courses dual credit classes substitute.***

## Frequently Asked Questions about Dual Credit

### 1. What is Dual Credit?

Fisd high school students can take Collin College courses and receive credit both for their high school diploma and their college degree. Courses may be taught on the high school or college campus by Collin College professors. Courses are being added each year into the Frisco ISD Dual Credit program that will allow a 2021 graduate to earn an Associate's Degree through Collin College while completing the requirements for a high school diploma.

### 2. What is Concurrent Credit?

This is when a student earns college credit only for a college course taught on the college campus.

### **3. What approvals does a student need before enrolling in a dual credit class?**

High School Counselor approval is required for both dual and concurrent credit.

### **4. Will Collin College dual credit transfer to universities?**

College credit will transfer to most colleges or universities. Please visit Collin's TransferU for more information (<http://www.collin.edu/transferu/>).

### **5. Who can participate?**

Students enrolled in FISD public high school who are ready to acquire college credit can participate.

Students must also have permission from the appropriate high counselor, successfully complete the Texas Success Initiative (TSI) or provide proof of exemption from TSI, and demonstrate the maturity level needed to be successful in college course work. An A/B grade point average is recommended.

### **6. How does enrollment in Dual Credit courses impact GPA?**

Weighted grade points are awarded for successful completion of a dual credit course. Specifically, regular courses allow you to obtain a maximum point total of 5.0, Dual Credit earns a maximum point total of 5.5, and AP earns a maximum point total of 6.0.

### **7. Are there any federal student aid consequences for taking a dual credit course?**

High school students who are dual enrolled with Collin College and earn college credits for core coursework have no consequences in regards to federal student aid. Having dual credits does not lower a student's eligibility. All Pell eligible students can receive up to six full-time Pell awards and is not impacted by dual credits.

### **8. What are my options?**

Courses are offered in many disciplines including Economics, English, Government, History, Math, Science, Psychology, Speech and Fine Arts. A variety of Technical and Workforce programs are also available for dual and concurrent enrollment.

### **9. What are the requirements to teach a dual credit course?**

Courses are taught by college instructors, including high school teachers applied and qualified to be Collin College professors. Qualifications include a master's degree and 18 hours in the subject area being taught.

### **10. Why is the program being phased in?**

Due to fairness of GPA calculations and not to create unfair weighted GPA advantages, grade levels will be phased in.

## **11. Why does dual credit US HIST 1302 come before 1301, and take the EOC in December?**

HIST1302 covers the second half of US History (from 1877 through the present), which is also the content tested on the End of Course (EOC) Exam. Much like AP US History, also a college-level course, dual credit students will cover more historical time periods than on-level content students. Taking the second half first allows students to cover all content tested prior to the EOC testing window, allows students time to prepare for retest if needed, and ensures that students who choose to change to on-level US History at semester will not miss any content.

*For additional questions please contact your FISD HS home campus counselor or Kim Whitlock at Collin College, Special Admissions Coordinator, [kwhitlock@collin.edu](mailto:kwhitlock@collin.edu)*

## Complete list of Dual Credit Courses Available:

Course	Collin Course Number	High School Credit
Composition I & II	ENGL1301, 1302	English III or IV
World Literature I & II*	ENGL2332, 2333	English IV
US History I & II	HIST1301, 1302	US History
Federal Government	GOVT2305	Government
Principles of Macroeconomics	ECON2302	Economics
Texas Government	GOVT2306	Elective
College Algebra	MATH 1314	Math Credit
Plane Trigonometry	MATH 1316	Math Credit
Elementary Statistical Methods	MATH 1342	Math Credit
Pre-Calculus Math*	MATH 2412	Math Credit
Calculus I*	MATH 2413	Math Credit
Biology for Science Majors I & II	BIOL1406, 1407	Fourth Science Credit
Biology for Non-Science Majors I & II	BIOL 1408, 1409	Fourth Science Credit
Psychology – Learning Framework	PSYC1300	Elective
Introduction to Sociology	SOCI1301	Elective
Art Appreciation*	ARTS 1301	Elective
Introduction to Speech**	SPCH1311	Speech/Elective

**\*Offered starting in 2018-19**

**\*\* Offered to 2021 graduates and beyond**

Note: Dual Credit Career and Technical Education (CTE) Courses are available also. Please see CTE section of this Catalog for course list.

# GENERAL INFORMATION

## Academic All-Stars

At the end of the fifth six weeks, students who have been enrolled in at least the minimum number of courses and attained a grade no lower than 90 on any **six weeks grade**, will be designated an "Academic All-Star." An award will be presented to these students at the awards assembly at the end of the school year. The semester grades for dual credit courses will be used and no points will be added for dual credit, honors or AP® courses.

## Changing Class Schedules

Students pre-enroll in the spring semester for the upcoming school year, and the master schedule will be based on that information. Students will be able to see and change their course requests through April 13, 2018, by contacting their counselor. Following this deadline, only program changes will be allowed through the second week of each semester.

Pre AP/AP® classes may be dropped only at the end of the first grading period of a course or at the end of the semester. AP Seminar and AP Research classes may only be dropped at semester. The decision to make a schedule change will need to be made between the teacher and parents in the best interest of the student. Campus administration has final approval on all schedule changes.

## Community Service Program

The purpose of the program is to promote volunteer service to the school and community. Students who complete all requirements of the program will be recognized at their graduation ceremony by a colored cord and recognition in the graduation program.

Students wishing to participate should complete 100 hours of service, either individually or as part of a group project. Documented hours meeting the criteria below will be accepted including required hours completed for other organizations. The hours must be completed in grades 9-12 (hours completed during the summer following the 8th grade will also be accepted).

Check with your counselor to see the required documentation methods for your campus. Hours should be turned in no later than April 1st of the year in which the student intends to graduate. Undocumented hours will not be accepted.

### Community Service Guidelines:\*

- Volunteer work done for a non-profit organization geared towards improving the community (Red Cross, American Cancer Society, Frisco Family Services, etc.).
- Volunteer work done as part of a civic, religious, school, charity or community organization geared towards improving the community or school (Rotary Club, NHS, Frisco Family Services, etc.).
- Work performed by a religious organization must be work that could be performed by a non-religious organization.
- Must be completed outside the school day.

\*Students wishing to submit community service hours outside of these criteria should request prior approval for their activity, from the campus principal or designee.

\*\*Sponsors, coaches, boosters, etc. may not offer to “double” hours for students without prior approval from the campus principal or designee.

### **Examples of Activities for which Community Service hours may not be awarded:**

- Donation of money or material goods.
- Babysitting for a neighbor without being paid.
- Tutoring a younger sibling (tutoring others may count if arranged through the NHS or the counseling department).

## **Credit by Exam**

### **High School Credit by Examination - Without Prior Instruction (Exam for Acceleration)**

High school students who wish to earn credit for a course in which they have had no prior formal instruction may test through credit by exam. Examinations for Grade 9-12 are criterion-referenced tests from Texas Tech University, University of Texas, or the testing instruments approved by the Superintendent or designee. Student must demonstrate 80% or higher mastery on the exam in order to earn credit. Courses taken for high school credit will not be computed in class rank. Students are encouraged to review the course study guide on the university website. If a student fails to achieve the designated score for a subject before the beginning of the school year in which the student would ordinarily be required to enroll in that subject, the student must satisfactorily complete the course to receive credit. *\*\*\*Due to changes in exams for acceleration, §74.24 of 19 TAC, an EOC assessed course must now be validated to meet more rigorous requirements. Since there is not currently an assessment that meets the new validation criteria instituted by The Texas Education Agency for an EOC assessed course, we cannot offer an exam for acceleration for EOC tested subjects at this time.*

Applications are available from the high school counselor and must be returned to the counselor for processing. Parents should be aware that there are no exceptions available for students to test for acceleration and plan accordingly. Students may test at any time during the testing window, but must be registered by the test application deadline. A student may take a specific examination only once during each window. The application deadline and testing window will be determined at the start of each school year and can be found at:

<http://www.friscoisd.org/ly/departments/Testing/FriscoISDOnlineCreditbyExamination-HighSchool.htm>

Students who may potentially be candidates for athletic scholarships should be advised that credits earned through credit by exam may not qualify for minimum core course requirements under NCAA guidelines. See the following link for specific information:

<http://www.ncaa.org/student-athletes/future/nontraditional-courses>

### **Credit by Examination - With Prior Instruction**

Students, under certain circumstances, may be able to take credit by exam for a course in which they have had prior instruction but did not receive credit. This option must be approved by the campus principal (or designee). This option generally applies to students who have not earned credit due to extenuating circumstances such as a family move, illness, etc. To be eligible for a credit by exam, a student must have had prior instruction in the course. It also may apply to students who were home schooled or attended a non-accredited private school and need state approved credit. Students who attended school in a foreign country which was taught in a language other than English may also qualify to test that language (French, Spanish, German) with prior instruction. Students are encouraged to review the admission requirements for universities before choosing the credit by exam option. Students who may potentially be candidates for athletic scholarships should be advised that credits earned through credit by exam may not qualify for minimum core course requirements under NCAA guidelines. See the following link for specific information:

<http://www.ncaa.org/student-athletes/future/nontraditional-courses>

Students must demonstrate 70% or higher mastery on the exams. Applications are available from the school counselor. There is a fee of \$45-\$50 (depending on exam) for each semester exam. Students may test at any time during the testing window, but must be registered by the test application deadline. The application deadline and testing window will be determined at the start of each school year and can be found at :

<http://www.friscoisd.org/ly/departments/Testing/FriscoISDOnlineCreditbyExamination-HighSchool.htm>

## Credit By Exam Study Guides

Please see the following links for study guides.

**Texas Tech University** [https://www.depts.ttu.edu/ttuisd/cbe\\_review\\_sheets.php](https://www.depts.ttu.edu/ttuisd/cbe_review_sheets.php)

**University of Texas** [https://highschool.utexas.edu/cbe\\_study\\_guides](https://highschool.utexas.edu/cbe_study_guides)

## Credit Recovery Guidelines

The goal of the Frisco ISD Credit Recovery Program is to assist students deficient in credits while at the same time preserving the integrity of the FISD diploma. FISD will ensure that every student has the opportunity to acquire the credits necessary to earn a diploma. It is the responsibility of each student to be aware of their progress toward a diploma and to take full advantage of the assistance available. Students who may potentially be candidates for athletic scholarships should be advised that credits earned through credit recovery may not qualify for minimum core course requirements under NCAA guidelines. See the following link for specific information:

<http://www.ncaa.org/student-athletes/future/nontraditional-courses>

High school students who fail a course may recover credit through the following options:

1. Correspondence
2. Credit by Examination
3. Summer School
4. Online courses (with prior approval of principal or designee)
5. Repeating the class during the school day
6. Night school
7. Credit recovery course during the school day (not available for first-year high school students).

Students must first demonstrate effort to recover credit through an option listed above before enrollment in a school day program will be considered. An exception will be made only in extenuating circumstances (i.e. extended illness, homelessness, teen parent, students new to FISD) as determined by the Student Support Team (SST).

### **Fifth year students:**

Fifth year students may be referred to the Student Opportunity Center to complete graduation requirements.

### **The following information pertains to all grade levels:**

- Any cost associated with Credit Recovery option will be the responsibility of the student and parent.



- Students attending the Student Opportunity Center full time credit recovery program during the school day will be provided with transportation to and from the student's home campus to the SOC by the district. Parents and students will be responsible for transportation for all other credit recovery classes taken at the SOC.
- Seniors planning to participate in graduation must provide proof of credit earned and recorded at least 5 school days before graduation. All other students must provide proof of credit prior to the start of the following school year in order to receive credit that would result in promotion to the next grade level. Reclassification is only done each year prior to the start of the school.
- Students must seek prior approval from appropriate campus staff before enrolling in any of the credit recovery options.
- Students should refer to existing guidelines for details regarding correspondence, credit by exam, summer school, night school or online courses.
- Final decisions regarding placement in credit recovery rest with the campus principal.
- Correspondence courses do not require previous instruction. Frisco ISD recognizes and utilizes correspondence courses primarily from the University of Texas and Texas Tech University. Contact a campus counselor for additional information.

## **Early Graduation**

Students interested in early graduation should see their counselor. All high school students who apply to graduate early must complete the requirements for the Frisco ISD Foundation High School Graduation Program plus endorsement unless the student, the student's parent/guardian and a school administrator agree in writing that there are extenuating circumstances or extreme hardships. If an agreement is reached, then the student will be allowed to graduate under the Foundation High School Program and will adhere to the requirements outlined in Education Code 28.025(b), (b-7). A declaration of intent to graduate early must be filed after May 1 of the second year of high school but prior to September 1 of the third year. Requests made after September 1 will be considered for approval by the Superintendent or his designee.

## **Course Enrollment - Grade Level Requirements and Prerequisites**

Enrollment is limited by grade levels listed. Students must be classified in the appropriate grade in order to sign up for a course. The prerequisite listed must be met and passed for each course. Please note grade and prerequisites with each course description.

## **Late Arrival or Early Release**

Juniors and seniors who are on track for graduation with regard to both credit and EOC requirements may sign up for either late arrival or early release. Students who opt for either must have transportation and may not be on campus when they are not scheduled in a class. Any student unable to leave campus immediately after their last class will not be permitted to have early release.

## **Online courses through TxVSN (Texas Virtual School Network)**

Students may continue attaining high school credit through online courses from TxVSN or by taking and passing Credit by Exams (CBE's). Online courses are GPA exempt.

## **Official Transcripts**

Official transcripts are free for current students and \$5 for alumni. Current Frisco ISD students will receive a total of three free transcripts per school year; although in the rare circumstance that the desired recipient does not accept electronic delivery and your transcript must be mailed, there will be an additional charge of \$2.50. Once a student has requested three transcripts, the cost will be \$3 per electronic transcript or \$5.50 if the desired recipient requires a hard copy. Alumni will continue to pay \$5 per transcript, or more depending on how the student wants to have the transcript delivered. Frisco ISD graduates in the Class of 2017 will be considered alumni after August 1, 2017. Transcripts should be requested at [www.parchment.com](http://www.parchment.com).

## **Special Education**

Students experiencing difficulties in school may be referred for services in special education. Before a student can receive special education and/or related services for the first time, an initial evaluation must be conducted. Decisions regarding the provision of special education services are made by an Admission, Review, and Dismissal (ARD) committee. If a student is determined to be eligible for services in accordance with the Texas Education Agency guidelines, an individualized education plan is developed. Instruction that is designed to meet a student's unique educational needs may be provided in a variety of settings. Instructional settings may include (a) general education classroom with accommodations, (b) general education classroom with support, (c) resource classroom, (d) self-contained classroom, or (e) a separate campus. Related services necessary for the student to benefit from special education may also be provided.

## Top 10% Program (Excluding University of Texas at Austin)

Top students are eligible for automatic admission to any public university in Texas. Under House Bill 588 passed by the 75th legislature in 1997, students who are in the top ten percent of their graduating class are eligible for automatic admission to any public university in Texas.\*

To be eligible for automatic admission, a student must:

- Graduate in the top 10 percent of his/her class at a public or private high school in Texas and earned the distinguished level of achievement under the Foundation High School Program.
- Enroll in college no more than two years after graduating from high school; and
- Submit an application to a Texas public university for admission before the institution's application deadline. Since deadlines vary, please check with the specific university to verify the application deadline.

\*See <http://bealonghorn.utexas.edu/> for information regarding UT admission.

\*\*Students deficient in admission requirements MAY be required to take enrichment courses before being admitted.

\*\*\*The law states that class rank shall be based on the end of 11th grade, middle of 12th grade, or at high school graduation, whichever is most recent when the application is completed.

## TSI

TSI is a state-mandated placement test for Texas public colleges and universities. Effective in the fall 1998, the Texas Legislature requires that all first-time college students take the TSI test prior to the first day of college classes. Students may be exempt from TSI with an:

**ACT composite score of 23 with a minimum of 19 on both the mathematics and English tests or; SAT (administered prior to March 2016):**

- A **minimum combined critical reading and mathematics score of 1070** with a minimum score of 500 on the mathematics test for a TSI exemption in math;
- A **minimum combined critical reading and mathematics score of 1070** with a minimum score of 500 on the critical reading test for a TSI exemption in both reading and writing

**SAT (administered on or after March 5, 2016):**

- A minimum score of 530 on the Mathematics test for a TSI exemption in math (no combined score required);
- A minimum score of 480 on the Evidenced-Based Reading & Writing (EBRW) for a TSI exemption in both reading and writing (no combined score required)

*Mixing or combining scores from the SAT administered prior to March 2016 and the SAT administered on or after March 5, 2016 is not allowable.*

For more information on TSI, contact your college or university.

## TEXAS Grant

The state legislature established the TEXAS (Towards Excellence, Access and Success) Grant to make sure that well-prepared high school graduates with financial need could go to college.

For more information: <http://www.collegeforalltexans.com/apps/financialaid/tofa2.cfm?ID=458>

## FAFSA

Students in their final year of high school should be reminded of how important it is to apply for financial aid early in their final year and each following year, as long as they are in post-secondary education or training. There are many merit scholarships available to students through the completion of the FAFSA application at <https://fafsa.ed.gov>. FAFSA submission is available starting October 1.

## ACT and SAT

Registration for the SAT® and ACT® should be completed online at: ACT - [www.ACTStudent.org](http://www.ACTStudent.org) / SAT - [www.SAT.org](http://www.SAT.org). Students should see their counselor for help in determining which test to take. Students should plan to take their admissions test in the spring of their junior year. Information about registration, dates, and cost can be obtained at [www.SAT.org](http://www.SAT.org) and [www.ACT.org](http://www.ACT.org).

Register online at: [www.SAT.org](http://www.SAT.org) [www.act.org](http://www.act.org) (ACT®)

School codes are as follows:

CHS 442-633	FHS 442-635	LHS 445-579
WHS 442-602	HHS 442-488	LSHS 442-638
IHS 442-626	RHS 442-627	
LTHS 440-001	MHS XXX-XXX	

## PSAT/NMSQT

The Preliminary SAT/National Merit Scholarship Qualifying Test is a multiple choice standardized test administered by the College Board and National Merit Scholars Corporation (NMSC).

### Free SAT and ACT Prep:

Students have access to free online practice tests for the SAT at <https://sat.collegeboard.org/practice> and <https://www.khanacademy.org/sat> and at <http://actstudent.org/onlineprep/> for ACT.

## **AP® Exam Dates**

Advanced placement exams are administered the first two weeks of May. Please see [www.collegeboard.org](http://www.collegeboard.org) for more specific information.

## **PRE-AP and Advanced Placement Program**

### **What is the Pre-AP/AP® Program?**

The Pre-AP/AP® Program allows students to participate in college preparatory courses and college level courses while still in high school. Secondary schools and colleges cooperate in this program to give students the opportunity to show mastery in college level courses by taking AP® exams in May of each school year. With successful completion of an AP® exam, many colleges will issue college credit.

### **What are the advantages of my student taking Pre-AP/AP® courses?**

The main advantage of taking a Pre-AP/AP® course is better preparation for college. Students who take AP exams may receive college credit while still in high school, saving both time and money. Because the AP® curriculum is standardized across the nation, colleges and universities look favorably on students who have completed this course work, as they understand the depth and breadth of these challenging courses. Selected universities may expect to see AP® course work on a transcript. Students planning to apply to highly competitive colleges and universities are encouraged to take full advantage of Pre-AP and AP® course offerings.

### **Who can enroll in a Pre-AP/AP® course?**

Any student can enroll in a Pre-AP or AP® course. Students should consider their grades in prior course work, teacher recommendations and achievement levels on PSAT, or other standardized tests when making decisions on the Pre-AP and AP® program. Counselors can help students make informed decisions on the appropriate level course work, but admission is open to any student who chooses to take a Pre-AP or AP® class. Students are cautioned to choose their classes carefully and to pay attention to their overall class load and extra-curricular load.

**Pre-AP and AP® courses offered at FISD High Schools\*:**

<b>Pre-AP</b>	<b>Advanced Placement</b>	
English 1	English Language and Composition	Art History
English 2	English Literature and Composition	Studio Art: 2-D Design
Biology	World History	Studio Art: 3-D Design
Chemistry	United States History	Studio Art: Drawing
Spanish 2	United States Government and	Music Theory
Spanish 3	Politics	Computer Science A
French 2	Macroeconomics	Calculus AB
French 3	European History	Calculus BC
Algebra 1	Human Geography	Statistics
Geometry	Biology	French Language and Culture
Algebra 2	Chemistry	Spanish Language and Culture
Pre-Calculus	Physics 1 and 2	Spanish Literature and Culture
Art I	Physics C: Mechanics	Psychology
Computer Science	Physics C: Electricity and	AP Seminar
GT Humanities I	Magnetism	AP Research
Chinese 3	Environmental Science	
	GT Humanities II	
	Chinese Language and Culture	

\*Pre-AP and AP® course availability at each high school will be based on student enrollment numbers in the course.

**Gifted and Talented Program**

The high school gifted student is served through GT Humanities I/ Pre-AP English I in ninth grade and GT Humanities II/ AP World History in tenth grade. Specific subject advanced placement courses and fine arts electives also provide challenge and enrichment for these students. Presentation and research projects are important components of advanced classes. In addition, gifted and advanced eleventh and twelfth grade students may interview and apply for the Independent Study and Mentorship Program (ISM).

## Graduation Program Worksheet

8th or Summer School	9th Grade	10th Grade	11th Grade	12th Grade
	1. English I	1. English II	1. English III	1. English IV
	2. Math ( <i>most often Algebra I or Geometry</i> )	2. Math ( <i>most often Geometry or Algebra II</i> )	2. Math ( <i>most often Algebra II or Pre-Calculus</i> )	2. 4th Year Math
	3. World Geography	3. World History	3. U.S. History	3. Government & Economics
	4. SCIENCE ( <i>most often Biology, IPC an option</i> )	4. SCIENCE ( <i>most often Chemistry; IPC, Biology, Physics options</i> )	4. 3 <sup>rd</sup> Science ( <i>often Physics</i> )	4. 4 <sup>th</sup> Science
	5.	5.	5.	5.
	6.	6.	6.	6.
	7.	7.	7.	7.
	8.	8.	8.	8.

*\*Worksheet not intended to represents all possible options for students.*

## Additional Student FEES

Teen Leadership I & II	Ropes Course	\$35 - not required of students that do not attend
Speech / Debate	For tournament & membership fees	Up to \$50 per student
Credit Recovery	Night School	\$300
Orchestra	Instrument rental fee	\$100
Band	Instrument rental fee	\$100
Art I	Supply Fee	\$40-\$50
Pre AP Art I	Supply Fee	\$50-\$55
Art II	Supply Fee	\$55-\$65
Pre AP Art II	Supply Fee	\$55-\$65
Art II Ceramics	Supply Fee	\$45-\$55
Art III & Art IV	Supply Fee	\$65-\$75
AP Studio Drawing	Supply Fee/Matting Fee	\$60-\$70 / \$35
AP Studio Art 2D Design	Supply Fee/Matting Fee	\$60-\$70 / \$35
AP Studio 3D	Supply Fee	\$70-\$80
Technical Theater	Supply Fee	\$35
Intermediate Technical Theater I	Supply Fee	\$35
Technical Theater II	Supply Fee	\$40
Technical Theater III-IV	Supply Fee	\$50

### Athletic Operational Fee

High School Athletes will pay an annual fee of \$200. This single fee will cover participation in all athletic activities for the duration of the school year.

### CTE Courses

For Career and Technical Course Fees, please see the CTE section of this Guide.

*Other courses and programs may contain fees; this list is not intended to be comprehensive.*



# Section 2:

# Course Catalog

# English Language Arts Courses

## **English I - (1 credit)**

### **9th grade**

#### **Prerequisite: None**

In English I, students strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. This course focuses on literature that highlights the theme of Coming of Age.

Building on their knowledge of literary elements in traditional literary genres, students study the relationship between narrative voice and style, while also analyzing literary and stylistic elements in film and literature. They develop persuasive writing skills by using rhetorical appeals.

Performance and oral interpretation of literature build students' speaking and listening skills.

Research continues to play an important role as students evaluate social, cultural, and historical influences on texts. Through the use of multiple learning and instructional strategies, students acquire not only the knowledge they need but also the confidence in their own abilities to learn and to communicate effectively in real-world situations. This course will require an End of Course Exam.

## **Pre AP English I - (1 credit)**

### **9th grade**

#### **Prerequisite: None**

Pre-AP English I engages students in learning all the essential knowledge and skills of English I while providing greater depth. This enhanced curriculum builds the tools necessary to succeed in AP Language and Literature classes.

Independent reading in Pre-AP courses is structured to support students' interaction with a text through the application of close reading analysis with Pre-AP and AP reading strategies, leading to an ability to independently analyze any new text. Students are confronted with increasingly challenging texts, both classic and contemporary, fiction and nonfiction. Students are

challenged by complex writing tasks in persuasion, argumentation, literary analysis, and synthesis in order to build capacity to write effectively in these rhetorical modes. With exposure to AP strategies, prompts, nonfiction texts, and varied writing tasks, students will exit the program equipped with the kind of higher-order thinking skills, knowledge, and behaviors necessary to be successful in AP classes and post-secondary education. This course will require an End of Course Exam.

## **Principles English I – (1 credit)**

### **9th grade**

#### **Prerequisite: Committee Recommendation**

This course is based on the English I TEKS with modifications implemented to meet the needs of the students. This course will require an End of Course Exam.

## **Applied English 1- (1 credit)**

### **9th grade**

#### **Prerequisite: Committee Recommendation**

This course is based on the prerequisite skills of the English I TEKS. Students in this course are exposed to the essence of the TEKS. Students in this course will demonstrate performance objectives that may include real life applications of the grade-level TEKS as appropriate to the student's abilities and needs. This course will require an End of Course Exam.

**English II - (1 credit)****10th grade****Prerequisite: None**

In English II, students strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. This course focuses on the concept of culture and community, and examines how these influences shape identity and perspective. Students read and analyze works of world literature, with emphasis on analysis of how stylistic choices and rhetorical elements shape tone in persuasive and argumentative texts, both print and non-print. Students deconstruct writing prompts and write a synthesis essay that incorporates perspectives from multiple sources. Students develop their independent learning skills as they respond to opportunities for self-evaluation. Through the use of multiple learning and instructional strategies, students acquire not only the knowledge they need but also the confidence in their own abilities to learn and to communicate effectively in real-world situations. This course will require an End of Course Exam.

**Principles English II - (1 credit)****10th grade****Prerequisite: Committee Recommendation**

This course is based on the English II TEKS with modifications implemented to meet the needs of the students. This course will require an End of Course Exam.

**Applied English II - (1 credit)****10th grade****Prerequisite: Committee Recommendation**

This course is based on the prerequisite skills of the English II TEKS. Students in this course are exposed to the essence of the TEKS. Students in this course will demonstrate performance objectives that may include real life applications of the grade-level TEKS as appropriate to the

student's abilities and needs. This course will require an End of Course Exam.

**Pre AP English II - (1 credit)****10th grade****Prerequisite: None**

Pre-AP English II engages students in learning all the essential knowledge and skills of English II while providing greater depth. This enhanced curriculum continues to build the tools necessary to succeed in AP Language and Literature classes. Independent reading in Pre-AP courses is structured to support students' interaction with a text through the application of close reading analysis with Pre-AP and AP reading strategies, leading to an ability to independently analyze any new text. Students are confronted with increasingly challenging texts, both classic and contemporary, fiction and nonfiction. Students are challenged by complex writing tasks in persuasion, argumentation, literary analysis, and synthesis in order to build capacity to write effectively in these rhetorical modes. With exposure to AP strategies, prompts, nonfiction texts, and varied writing tasks, students will exit the program equipped with the kind of higher-order thinking skills, knowledge, and behaviors necessary to be successful in AP classes and post-secondary education. This course will require an End of Course Exam.

**English III - (1 credit)****11th grade****Prerequisite: None**

In English III, students strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. This course focuses on American fiction and nonfiction, using literary and other texts to present the iconic idea of the American Dream. Students research historical and contemporary texts as they articulate the origins and impact of the ideas and realities of the American Dream on life today and on personal thinking. Students are expected to articulate personal convictions and propose solutions to social issues. Writing in a variety of modes - personal essays, opinions and editorials, credos, reflective self-evaluation, speeches, dramatic scripts, surveys, literary analysis, and research projects - students expand their skills in communicating well through written language. Through the use of multiple learning and instructional strategies, students acquire not only the knowledge they need but also the confidence in their own abilities to learn and to communicate effectively in real-world situations.

**Principles English III - (1 credit)****11th grade****Prerequisite: Committee Recommendation**

This course is based on the English III TEKS with modifications implemented to meet the needs of the students.

**Applied English III- (1 credit)****11th grade****Prerequisite: Committee Recommendation**

This course is based on the prerequisite skills of the English III TEKS. Students in this course are exposed to the essence of the TEKS. Students in this course will demonstrate performance objectives that may include real life applications of the grade-level TEKS as appropriate to the student's abilities and needs.

**AP Language and Composition – (1 credit)****11th grade****Prerequisite: None**

The AP English Language and Composition course aligns to introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. Through the course, students develop a personal style by making appropriate grammatical, vocabulary, and syntactical choices. Additionally, students read and analyze the rhetorical elements and their effects in non-fiction texts, including graphic images as forms of text, from many disciplines and historical periods. This prepares students for the Advanced Placement Exam which may earn the student college credit.

**English IV - (1 credit)****12th grade****Prerequisite: None**

In English IV, students strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. This course capitalizes on the confidence and expertise students have gained as interpreters and analyzers of texts by introducing them to multiple lenses through which to view text. Students are asked to broaden their understanding and their interpretive skills by thinking deeply about themes and ideas from multiple perspectives. Using Historical, Cultural, Feminist, Marxist, and Archetypal Criticism, students learn to view texts through some of the filters that result in multiple interpretations of the same text or media story. Students apply the theories of criticism to their own reading and interpretation of both fiction and nonfiction texts. Through the use of multiple learning and instructional strategies, students acquire not only the knowledge they need but also the confidence in their own abilities to learn and to communicate effectively in real-world situations.

**Principles English IV - (1 credit)****Prerequisite: Committee Recommendation**

This course is based on the English IV TEKS with modifications implemented to meet the needs of the students.

**Applied English IV - (1 credit)****Prerequisite: Committee Recommendation**

This course is based on the prerequisite skills of the English IV TEKS. Students in this course are exposed to the essence of the TEKS. Students in this course will demonstrate performance objectives that may include real life applications of the grade-level TEKS as appropriate to the student's abilities and needs.

**AP Literature and Composition - (1 credit)****12th grade****Prerequisite: None**

The AP English Literature and Composition course aligns to an introductory college-level literary analysis course. The course engages students in the close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, symbolism, and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. This course prepares students for the Advanced Placement Exam which may earn the student college credit.

**College Readiness for English Language Arts and Reading - (1 credit)****12th grade****Prerequisite: Counselor Recommendation**

The purpose of the College Readiness English Language Arts and Reading course is to provide high school students an opportunity to gain and demonstrate the necessary college readiness skills to be successful in college-level, credit-bearing courses without the need for remedial or developmental coursework. This course is designed for 12th grade students whose English coursework, End of Course examinations in English, and college readiness examination scores indicate that a student is not ready to perform entry-level college coursework in composition and literature. The performance-based course integrates basic academic reading skills and basic writing skills and is designed to develop students' critical reading and academic writing skills through extensive instruction emphasizing skills in vocabulary, grammar, comprehension, paragraph elements, essay structure, and critical analysis. Students will demonstrate comprehension of varied texts through written responses, progressing from advanced paragraphs to well-developed, academic essays. The course fulfills

TSI requirements for reading and writing. Entry into this course requires counselor recommendation, and may count for the fourth English Language Arts credit. Students who may be candidates for athletic scholarships should be advised that this course may not meet minimum core requirements under NCAA guidelines.

**Dual Credit English (III or IV):**

**ENGL 1301 Composition I – (1/2 credit)**

**11<sup>th</sup>-12<sup>th</sup> grade**

**Prerequisite: English II and meet eligibility requirements**

Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis. Lab required. Prerequisite: Meet TSI college-readiness standard for Reading and Writing; or equivalent. 3 credit hours. This course fulfills ½ credit for either English III (for Juniors intending to take ENGL 2332 and ENGL 2333 in the senior year) or English IV (for seniors). It should be paired with ENGL 1302 in the second semester to grant a full credit of high school English.

**Dual Credit English (III or IV):**

**ENGL 1302 Composition II – (1/2 credit)**

**11<sup>th</sup>-12<sup>th</sup> grade**

**Prerequisite: English II and meet eligibility requirements**

Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions. Lab required. Prerequisite: ENGL 1301. 3 credit hours. This course fulfills ½ credit for either English III

(for Juniors intending to take ENGL 2332 and ENGL 2333 in the senior year) or English IV (for seniors). It should be paired with ENGL 1302 in the second semester to grant a full credit of high school English.

**Dual Credit English IV:**

**ENGL 2332 World Literature I – (1/2 credit)**

**12<sup>th</sup> grade**

**Prerequisite: ENGL 1302 and meet eligibility requirements**

A survey of world literature from the ancient world through the sixteenth century. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. 3 credit hours. This course satisfies ½ credit for the Advanced English high school credit (English IV) and should be paired with ENGL 2333 in the second semester.

**Dual Credit English IV:**

**ENGL 2333 World Literature II – (1/2 credit)**

**12<sup>th</sup> grade**

**Prerequisite: 2332 and meet eligibility requirements**

A survey of world literature from the seventeenth century to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Prerequisite: ENGL 1302 or ENGL 2311. 3 credit hours. This course satisfies ½ credit for the Advanced English high school credit (English IV) and should be paired with ENGL 2332 in the first semester.

**Practical Writing Skills) – (1/2 to 1 credit)**

**9th – 12th grade**

**Prerequisite: Counselor Recommendation**

This study of writing allows high school students to earn credit while developing skills necessary for composing written documents with a deeper knowledge of the functions of the language. This course emphasizes skill in the use of conventions and mechanics of written English, the appropriate and effective application of English grammar, and the effective use of vocabulary. Students are expected to understand the recursive nature of the writing process. Evaluation of students' own writing as well as the writing of others ensures that students completing this course are able to analyze and evaluate their writing. This course is intended for remediation in writing.

**Reading I, II, III – (1 credit each)**

**9th – 12th grade**

**Prerequisite: Counselor Recommendation**

Reading is a one or two semester course for those students who struggle with basic reading competencies. Emphasis is placed on using specific reading strategies to increase skills in comprehension, vocabulary development, fluency and reference usage. Instruction is differentiated and tailored to the individual needs of each student. The model includes experiences in whole and small group instruction, independent reading, and technology-based learning. This course is intended for remediation in reading.

**Creative and Imaginative Writing - (1/2 credit)**

**10th – 12th grade**

**Prerequisite: None**

The study of creative writing allows high school students to earn credit while developing versatility as a writer. The forms and standards of writing are addressed in a varied format. Many pre-writing techniques will be used, including multi-media, discussion reading, journal, and personal experience. Writing for comedy, persuasion, drama, and narration will be included in this class. Students are expected to demonstrate an understanding of the recursive nature of the

writing process, effectively apply the conventions of usage and the mechanics of written English. The students' evaluation of their own writing as well as the writing of others ensures that students completing this course are able to analyze and discuss published and unpublished pieces of writing, develop peer and self-assessments for effective writing, and set their own goals as writers.

**GT Humanities I / Pre-AP English I - (1 credit)**

**9th grade**

**Prerequisite: Identification/Selection as Gifted/Talented**

GT Humanities I / Pre-AP English I and GT Humanities II / AP World History are courses that provide gifted students with opportunities not available through regular or advanced classes. The courses combine Pre-AP English I with AP World History in a two-year interdisciplinary spiral. The basic content is a historical study of the commonalities of the fine arts, including literature, the visual arts, architecture, and music. Students will learn and practice the craft of writing through various products, including AP style writing. Literature from a variety of world traditions will also be a key focus. Beginning in 2016-17, ninth and tenth grade students will sit in the same class while earning credit in separate courses; ninth graders will earn Pre-AP English I credit while tenth graders earn AP World History credit. At the conclusion of GT Humanities II, students can sit for the AP World History exam to possibly earn college credit. **GT Humanities does NOT fulfill the fine arts requirement for graduation and is not recognized as a fine arts course by TEA.**

**GT Humanities II / AP World History - (1 credit)**

**10th grade**

**Prerequisite: Identification / Selection as Gifted/Talented & GT Humanities I**

See above course description for GT Humanities I / Pre-AP English.

## **English for Speakers of Other Languages**

### **ESOL I - (1 credit)**

#### **9th–12th grade**

#### **Prerequisite: Language Proficiency**

#### **Placement Test, LPAC Recommendation**

English for Speakers of Other Languages I (ESOL I) is designed for beginning to intermediate fluency level students coping with a new language and a new culture. Basic skills are introduced in a simple, easy to- understand framework helping to bridge the gap between ESOL and other academic subjects. ESOL provides opportunities for students to practice listening, speaking, reading and writing skills as they develop independence and confidence in the use of English. The course includes the study of phonics, vocabulary, grammar, reading, and writing.

## **English for Speakers of Other Languages**

### **ESOL II - (1 credit)**

#### **9th–12th grade**

#### **Prerequisite: Language Proficiency Placement Test, LPAC Recommendation**

English for Speakers of Other Languages II (ESOL II) is designed for intermediate to advanced fluency level students transitioning between basic skills instruction in ESOL I and grade level Sheltered English. Curriculum for ESOL II incorporates intensive academic vocabulary instruction while also linking literary concepts from ENG II to adapted ESOL texts. The course UPDs are in alignment with those of ENG II, while instruction will also integrate literary concepts from ENG I and introduce literary terms from ENG III.

## **Independent Study in English I, II, or III – (1 credit each)**

#### **9th–11th grade**

#### **Prerequisite: LPAC recommendation**

Enrollment is limited to LEP identified students in 9th-11th grades who are at the Beginner-Advanced High language proficiency levels in language acquisition. The course provides additional language arts support for limited English proficient students. Placement will be determined through

language proficiency tests and LPAC recommendations.

## **Independent Study in English IV**

### **Practical Writing – (1 credit)**

#### **12th grade**

#### **Prerequisite: LPAC recommendation**

Enrollment is limited to LEP identified students in 12th grade who are at the Beginner-Advanced High language proficiency levels in language acquisition. The course provides additional language arts support for limited English proficient students. Placement will be determined through language proficiency tests and LPAC recommendations.

## **Journalism/Communications Offerings**

### **Debate I-III - (1 credit)**

#### **9th – 12th grade**

#### **Prerequisite: Instructor Approval**

The major objective of Debate class is to train and develop students in the art of argumentation to compete in Speech Tournaments. Students have the opportunity to earn awards, as well as membership in the Forensics Honor Society, the National Forensic League (NFL). The course develops skills in argumentation, persuasion, research, audience analysis, and other life skills. Tournament participation (5-8 tournaments a year) is required. Students in Advanced Debate courses will use the course as a Tournament Prep class. Debate is a yearlong course. Students may earn up to 3 state credits for debate.

### **Oral Interpretation - (1 credit)**

#### **9th – 12th grade**

#### **Prerequisite: Instructor Approval**

Oral Interpretation is an intensive speech and performance course in which students study the oral reading of a literary text as a communication art. Students will choose and analyze literature from many genres and prepare dynamic performances of selections in preparation for tournament competition in NFL, TFA, and UIL Interpretive speaking events. Tournament



participation (5-8 tournaments a year) is required, and NFL Honor Society membership is available. Students in Advanced Oral Interop courses will use the course as a tournament prep class. Course credit: one is preferred, but students may register by semester. Students may take this course for up to three credits.

### **Advanced Public Speaking - (1/2-1 credit)**

**10th – 12th grade**

#### **Prerequisite: Communication Applications**

Advanced Public Speaking develops and refines platform-speaking skills. The main objective is training students to effectively distinguish and use extemporaneous speaking in the classroom, in social situations, in the workplace and as competitors in UIL and TFA extemporaneous speaking events. Although the emphasis will be on training for academic competitions, direct life applications of these skills are the primary goal. Prerequisites: one semester of Communications Applications. Course credit: one is preferred, but students may register by semester. Students may take this course for 3 credits.

### **Journalism I - (1 credit)**

**9th – 12th grade**

#### **Prerequisite: None**

Journalism I is an elective and serves as a preliminary course for students interested in serving on the yearbook or newspaper staff. The course covers all aspects of journalism including media law, ethics and responsibilities, interviewing, journalism writing styles, photojournalism, and layout and design of publications. Students requesting this course should have a strong interest in writing. This course may substitute for the English 4 credit for those students on the Minimum High School Graduation Program (TAC 74.52 (b)(1)(B)). This course may count as a technology applications course.

### **Newspaper I - (1 credit)**

**10th - 12th grade**

#### **Prerequisite: Photojournalism or Journalism & Instructor Approval**

Students will continue to learn media law, ethics and responsibilities, as well as apply developed skills of journalistic writing and opinion writing for a variety of audiences. Students will extend practice of principles of interviewing, news evaluation and information gathering. Students will add to and continue to practice skills of reporting, writing and editing in a variety of journalistic styles. They will utilize knowledge and principles of publishing and design, learn economics of publishing, and serve as reporters for the school newspaper. Student will prepare copy and layouts, sell and design advertisements, and select illustrations and photographs for publication, as well as assume editorial leadership roles on the staff. Students enrolled in this class will be responsible for producing content for the school's newspaper and/or the school's online news site. This course may qualify as either an elective or technology credit towards graduation, but not both.

### **Advanced Journalism/Newspaper II-III – (1 credit)**

**10th – 12th grade**

#### **Prerequisite: Newspaper I and Instructor Approval (application required)**

Students in Advanced Journalism/Newspaper will be responsible for producing content for the school's newspaper and/or the school's online news site. This hands-on course will make use of the advanced features of Adobe InDesign and Photoshop, both powerful publishing tools used by professionals. This course may qualify as either an elective or technology credit towards graduation, but not both.

**Yearbook I - (1 credit)****10th – 12th grade****Prerequisite: Photojournalism or Journalism & Instructor Approval**

Yearbook is a course that specifically addresses the multifaceted needs of the yearbook student by introducing him/her to all phases of yearbook production. In this course ten units of study will be explored. They include: audience and function, theme development, section development, reporting and writing, headlines, photos and captions, design, graphics. money matters and distribution. Student performance-oriented activities will be required as part of each unit. These activities have been formulated to not only reinforce the theory of yearbook journalism, but to actually promote the production of the current yearbook. Students enrolled in this course will be responsible for producing the school's yearbook. This course may qualify as either an elective or technology credit towards graduation, not both, beginning with the class of 2014.

**Advanced Journalism/Yearbook II-III** **(1 credit)****10th – 12th grade****Prerequisite: Yearbook I and Instructor Approval (application required)**

Advanced Journalism/Yearbook is a course that specifically addresses the multifaceted needs of the yearbook student by introducing him/her to all phases of yearbook production. In this course ten units of study will be explored. They are as follows: audience & function, theme development, section development, reporting & writing, headlines, photos & captions, design, graphics & money matters distribution. Student performance-oriented activities will be required as part of each unit. These activities have been formulated to not only reinforce the theory of yearbook journalism, but to actually promote the production of the current yearbook. Students enrolled in this course will be responsible for producing the school's yearbook and will use the software programs Adobe InDesign and Photoshop, both powerful publishing tools used by professionals. This

course may qualify as either an elective credit or technology credit towards graduation, not both, beginning with the class of 2014.

**Independent Study in Journalism - (1/2-1 credit)****10th – 12th grade****Prerequisite: At least one year on publication staff and Instructor Approval**

Students enrolled in this course will have the opportunity to refine and enhance their journalistic skills through research of self-selected topics, plan, organize and prepare a project to be presented to the teacher or school through a school-sponsored publication.

**Photojournalism - (1 credit)****9th – 12th grade****Prerequisite: None**

Photojournalism is an elective where students learn about composition elements, appropriate photo editing, and explore digital camera techniques through a variety of projects. Students will improve their photography skills and develop their vision as photographers while they plan, make, and edit photos for presentation in both digital and print formats. Students will be required to take photos both in and out of school for project assignments. As part of the journalism program, students will learn and practice interview techniques, journalistic writing, page layout, and design techniques. Photojournalism is a recommended prerequisite for students interested in applying for the yearbook staff. Although not required, it would be to the student's advantage to have a personal DSLR camera for use at home for out of school projects. This course may qualify as either an elective or technology credit towards graduation, but not both. *Materials fee required for this course.*

**TV Broadcast I - (1 credit)****9th – 12th grade****Prerequisite: None**

TV Broadcast I is an elective and may serve as a preliminary course for students interested in serving as a member of the broadcast staff. Students in Broadcast I will learn the basics of TV production. They will learn about the history of broadcast journalism, story types, story idea development and writing in broadcast style. Students will also learn about video camera techniques, basic shooting of video, and basic video editing. They will assist in the live announcements and TV broadcast. Course may qualify as either an elective or technology credit towards graduation, but not both. *Materials fee.*

**TV Broadcast II - (1 credit)****10th – 12th grade****Prerequisite: TV Broadcast I and Teacher Recommendation**

Students in TV Broadcast II will collaborate with the Broadcast III students to create and produce various projects throughout the year. Instruction includes operation of different types of cameras, mastery of audio techniques, set lighting, electronic editing, script writing, direction, production, and special effects. This course may qualify as either an elective or technology credit towards graduation, but not both. *Materials fee required for this course.*

**TV Broadcast III - (1 credit)****10th – 12th grade****Prerequisite: TV Broadcast II and Teacher Recommendation**

Students in TV Broadcast III will produce the weekly TV newscast. Students will serve as the production crew and act as news anchors for the show. Instruction includes operation of different types of cameras, mastery of audio techniques, set lighting, electronic editing, script writing, direction, production, and special effects. This course may qualify as either an elective or technology credit towards graduation, but not both. *Materials fee required for this course.*

**Radio Broadcast I (1 Credit)****11th – 12th grade****Prerequisite TV Broadcast I or teacher permission.**

This innovative course will introduce students to the world of radio production, including commercial production, news and sports writing, audio editing, personality, and radio programming. Students will create and air radio programming for the campus radio station, which will include music, news, sports. A materials fee may be required for this course. This course may qualify as either an elective or technology credit towards graduation, but not both.

**Radio Broadcast II (1 Credit)****12th grade****Prerequisite TV Broadcast I or Radio Broadcast I**

This innovative course will continue student radio productions, including commercial production, news and sports writing, audio editing, personality, and radio programming. Students will create and air radio programming for a variety of projects including news, sports, talk radio and music radio. A materials fee may be required for this course. This course may qualify as either an elective or technology credit towards graduation, but not both.

**Video Technology- (1 credit) □****10th – 12th grade****Prerequisite: TV Broadcast II or Teacher Recommendation**

Students in Video Tech will produce television commercials, PSA's, short films and assist with campus, district-wide and community projects. Instruction includes operation of different types of cameras, mastery of audio techniques, film production, script writing, production and special effects. This course is considered a Technology Applications course. *A materials fee may be required for this course.*

# Mathematics Courses

*Teachers utilize TI-84+ graphing calculators during instruction in all math courses. Calculators remain in the classrooms, and students are encouraged to purchase their own calculator for use at home.*

## **Algebra I - (1 credit)**

**9th grade**

### **Prerequisite: 8th Grade Math**

In Algebra I, students will build on the knowledge and skills for mathematics in Grades 6-8, which provide a foundation in linear relationships, number and operations, and proportionality. Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology to collect and explore data and analyze statistical relationships. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables and will create new functions through transformations. This course will require an End of Course Exam.

## **Pre-AP Algebra I - (1 credit)**

**9th grade**

### **Prerequisite: 8th Grade Math**

Pre-AP Algebra I students will expand on concepts covered in regular Algebra I with an intense focus on high level application, problem solving, and higher order thinking processes. Students will also develop strategies that prepare them for future Advanced Placement math courses. This course will require an End of Course Exam.

## **Principles Algebra I- (1 credit)**

**9<sup>th</sup> grade**

### **Prerequisite: Committee Recommendation**

This course is based on the Algebra I TEKS with modifications implemented to meet the needs of the students. This course will require an End of Course Exam.

## **Applied Algebra 1- (1 credit)**

**9<sup>th</sup> grade**

### **Prerequisite: Committee Recommendation**

This course is based on the prerequisite skills of the Algebra I TEKS. Students in this course are exposed to the essence of the TEKS. Students in this course will demonstrate performance objectives that may include real life applications of the grade-level TEKS as appropriate to the student's abilities and needs. This course will require an End of Course Exam.

## **Algebra II - (1 credit)**

**9th – 12th grade**

### **Prerequisite: Algebra I**

In Algebra II, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to prepare students for 4th year math courses. This course is taught with a functional approach giving students a sound foundation for either technical or non-technical degrees in college. Students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Students will study polynomials, logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Students will connect functions to their inverses and associated equations and solutions in both mathematical and real-world situations. In addition, students will extend their knowledge of data analysis and numeric and algebraic methods.

**Pre-AP Algebra II – (1 credit)****9th – 12th grade****Prerequisite: Algebra I**

Pre-AP Algebra II expands on the concepts covered in regular Algebra II with an intense focus on high level application, problem solving, and higher order thinking processes. Students will also develop strategies that prepare them for future Advanced Placement math courses.

**Geometry - (1 credit)****9th – 12th grade****Prerequisite: Algebra I**

In Geometry, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to strengthen their mathematical reasoning skills in geometric contexts. Students will explore concepts covering coordinate and transformational geometry; logical argument and constructions; proof and congruence; similarity, proof, and trigonometry; two- and three-dimensional figures; circles; and probability. Due to the emphasis of probability and statistics in the college and career readiness standards, standards dealing with probability have been added to the geometry curriculum to ensure students have proper exposure to these topics before pursuing their post-secondary education. Students will also learn definitions, postulates, and theorems that help describe geometric relationships.

**Pre-AP Geometry - (1 credit)****9th – 12th grade****Prerequisite: Algebra I**

Pre-AP Geometry students will expand on concepts covered in regular Geometry with an intense focus on high level application, problem solving, and higher order thinking processes. Students will also develop strategies that prepare them for future Advanced Placement math courses.

**Principles Geometry - (1 credit)****9th – 12th grade****Prerequisite: Committee Recommendation**

This course is based on the Geometry TEKS with modifications implemented to meet the needs of the students.

**Applied Geometry****9th – 12th grade****Prerequisite: Committee Recommendation**

This course is based on the prerequisite skills of the Geometry TEKS. Students in this course are exposed to the essence of the TEKS. Students in this course will demonstrate performance objectives that may include real life applications of the grade-level TEKS as appropriate to the student's abilities and needs.

**Mathematical Models with Applications (MMA) - (1 credit)****10th- 12th grade****Prerequisite: Algebra I**

Mathematical Models with Applications is designed to build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I. This mathematics course provides a path for students to succeed in Algebra II and prepares them for various post-secondary choices. Students learn to apply mathematics through experiences in personal finance, science, engineering, fine arts, and social sciences. Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, model information, solve problems, and communicate solutions. Other topics students will learn about include: budgeting, personal taxes, banking, loan amortizations, analyzing credit card options, home and car finance, insurance rates, and investment options (stocks, bonds, annuities, retirement plans). Students will also revisit some algebra and geometry concepts. Math Models should be taken prior to Algebra II.

**Principles Mathematical Models with Applications (MMA) - (1 credit)**

**10th- 12th grade**

**Prerequisite: Committee Recommendation**

This course is based on the Mathematical Models with Applications TEKS with modifications implemented to meet the needs of the students.

**Applied Mathematical Models with Applications (MMA) – (1 credit)**

**10th- 12th grade**

**Prerequisite: Committee Recommendation**

This course is based on the prerequisite skills of the Mathematical Models with Applications TEKS. Students in this course are exposed to the essence of the TEKS. Students in this course will demonstrate performance objectives that may include real life applications of the grade-level TEKS as appropriate to the student's abilities and needs.

**Applied Math 4 – (1 credit)**

**Prerequisite: Committee Recommendation**

This course is based on the prerequisite skills of all math course TEKS. Students in this course are exposed to the essence of the TEKS. Students in this course will demonstrate performance objectives that may include real life applications of the grade-level TEKS as appropriate to the student's abilities and needs.

**Mathematics Lab – (1/2 to 1 credit)**

**9th – 12th grade**

**Prerequisite: Teacher recommendation**

*This course is a supplement to the student's regular grade-level math course and is taken in place of an elective.* Math Lab provides a rich, supportive curriculum to assist students in mastering foundation concepts through problem solving, reinforcement of skills, and the use of small group instruction. This class will provide students with additional support to help ensure success through the use of individualized, targeted instruction and interventions.

**College Readiness for Mathematics – (1 credit)  
12th grade**

**Prerequisite: Counselor Recommendation**

The purpose of the College Readiness Mathematics course is to provide high school students an opportunity to gain and demonstrate the necessary college readiness skills in mathematics to be successful in college-level, credit-bearing courses without the need for remedial or developmental coursework. This course is designed for 12th grade students whose coursework, End of Course examination in Algebra I, and college readiness examination scores indicate that a student is not ready to perform entry-level college coursework in mathematics. This course focuses on the study of relations and functions, inequalities, and algebraic expressions and equations including linear, polynomial, radical, and rational functions. Students will use these functions to model, interpret, and justify mathematical ideas and concepts using multiple representations. This course fulfills TSI requirements in mathematics. Entry into this course requires counselor recommendation, and may count for the fourth mathematics credit. Students who may be candidates for athletic scholarships should be advised that this course may not meet minimum core requirements under NCAA guidelines.

**Statistics - (1 credit)**

**11th – 12th grade**

**Prerequisite: Algebra I**

In Statistics, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I. Students will broaden their knowledge of variability and statistical processes. Students will study sampling and experimentation, categorical and quantitative data, probability and random variables, inference, and bivariate data. Students will connect data and statistical processes to real-world situations. In addition, students will extend their knowledge of data analysis. It is recommended that statistics be taken after Algebra II and/or during 12th grade.

**Advanced Quantitative Reasoning - (1 credit)****11th- 12th grade****Prerequisite: Geometry and Algebra II**

Advanced Quantitative Reasoning is a mathematics course for high school juniors and/or seniors that follows Algebra I, Geometry, and Algebra II. This course is a rigorous mathematics class for students who intend to major in non-technical fields of study upon entering college. In Advanced Quantitative Reasoning, students will develop and apply skills necessary for college, careers, and life. Course content consists primarily of applications of high school mathematics concepts to prepare students to become well-educated and highly informed 21st century citizens. Students will develop and apply reasoning, planning, and communication to make decisions and solve problems in applied situations involving numerical reasoning through weighted averages, proportion, combinatorics, voting and selection process. Students will gain understanding of probability and statistical reasoning by determining validity and usefulness of statistical data as well as finance through analyzing models for expenditures, amortization tables, and various types of loans and investments. Other topics include modeling with algebra, geometry, trigonometry, and discrete mathematics. This course serves as an *alternative* to Pre-Calculus. Students who have successfully passed Pre-Calculus are not eligible to take Advanced Quantitative Reasoning.

**Pre-Calculus- (1 credit)****10th- 12th grade****Prerequisite: Geometry and Algebra II**

Pre-calculus is the preparation for calculus. The course approaches topics from a function point of view, where appropriate, and is designed to strengthen and enhance conceptual understanding and mathematical reasoning used when modeling and solving mathematical and real-world problems. Pre-Calculus is a detailed study of: linear, quadratic, polynomial, rational, exponential, logarithmic, and trigonometric functions. This course also covers sequences,

series, vectors, and introductory parametric functions. This course meets the *minimum* prerequisite requirement for AP Calculus AB. This course is not *recommended* as a prerequisite for AP Calculus BC.

**Pre-AP Pre-Calculus - (1 credit)****10th –12th grade****Prerequisite: Geometry and Algebra II**

Pre-AP Pre-Calculus expands on the concepts covered in regular Pre-Calculus. This course is fast paced and students will require excellent algebraic and problem solving skills to be successful in this course. Students will also develop strategies that prepare them for AP Calculus AB or AP Calculus BC. Students successful in Pre-AP Pre-Calculus must be organized, committed, and eager to persevere due to the fast paced, abstract nature of the course. This course is the *recommended* prerequisite requirement for either AP Calculus AB or AP Calculus BC.

**AP Calculus AB - (1 credit)****11th -12th grade Prerequisite: Pre-Calculus**

AP Calculus AB covers advanced mathematical topics including elementary differential and integral calculus. AP Calculus AB is approximately equivalent to a one-semester calculus course at the college level. This course is designed to prepare students for the College Board Advanced Placement Exam. *AP Calculus AB is not a prerequisite to AP Calculus BC. AP Calculus AB is a college level course.*

**AP Calculus BC - (1 credit)****11th -12th grade****Prerequisite: Pre-Calculus**

AP Calculus BC covers advanced mathematical topics including elementary differential and integral calculus and their applications with polar, parametric, and vector functions. Additionally, applications of integral function, logistic models, polynomial approximations, and advanced sequences and series will be studied. AP Calculus BC is approximately equivalent to a two-semester calculus course at the college level. This course is designed to prepare students for the College Board Placement Exam. This course can be taken in lieu of AP Calculus AB. *AP Calculus BC is a college level course.*

**AP Statistics - (1 credit)****11th - 12th grade****Prerequisite: Algebra II**

AP Statistics exposes students to four broad conceptual themes: exploring data, planning a study, anticipating patterns, and statistical inference. Students should have excellent algebraic and problem solving skills. Extensive use of the graphing calculator to study statistical applications is emphasized. This course is a college level course and is designed to prepare students for the College Board Placement Exam. *AP Statistics is a college level course.*

**Dual Credit Math:****MATH 1314 College Algebra - (1/2 credit)****11th - 12th grade****Prerequisite: Algebra II and meet eligibility requirements**

College Algebra is an in-depth study of polynomial, rational, exponential, logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. A graphing calculator is required. Students are responsible for all transportation, books, fees, and tuition at the college and must pass TSI (Texas Success Initiative Assessment) to enroll. This is a dual credit course and may qualify as 1/2 of the 4th high school, math credit as well as 3 college credit hours. In order to receive 1 full credit of high school math, students must also take Dual Credit Plane Trigonometry (MATH 1316) or Dual Credit Elementary Statistical Methods (MATH 1342).

**Dual Credit Math:****MATH 1316 Plane Trigonometry - (1/2 credit)****11th – 12th grade****Prerequisite: Algebra II, Dual Credit College Algebra (MATH 1314), and meet eligibility requirements**

Plane Trigonometry is the in-depth study and application of trigonometry including definitions, identities, inverse functions, solutions of equations, graphing, and solving triangles. Additional topics such as vectors, polar coordinates and parametric equations may be included. Graphing calculator required. Students are responsible for all transportation, books, fees, and tuition at the college and must pass TSI (Texas Success Initiative Assessment) to enroll. This is a dual credit course and may qualify as 1/2 of the 4th high school, math credit as well as 3 college credit hours. Students must complete Dual Credit College Algebra (MATH 1314) before taking this course.



**Dual Credit Math:  
MATH 1342 Elementary Statistical Methods – (1/2 credit)**

**11th – 12th grade**

**Prerequisite: Algebra II and meet eligibility requirements**

Elementary Statistical Methods is the collection, analysis, presentation and interpretation of data and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Graphing calculator required. Lab required. Students are responsible for all transportation, books, fees, and tuition at the college and must pass TSI (Texas Success Initiative Assessment) to enroll. This is a dual credit course and may qualify as 1/2 of the 4th high school, math credit as well as 3 college credit hours.

**Dual Credit Math:  
MATH 1325 Calculus for Business & Social Sciences – (1/2 credit)**

**11th - 12th grade**

**Prerequisite: Dual Credit College Algebra (MATH 1314)**

This course is the basic study of limits and continuity, differentiation, optimization and graphing, and integration of elementary functions, with emphasis on applications in business, economics, and social sciences. Lab required. This course may qualify as 1/2 of the 4th math credit.

**Dual Credit Math:  
MATH 2412 Pre-Calculus Math – (1/2 credit)  
12th grade**

**Prerequisite: Dual Credit College Algebra (MATH 1314) and meet eligibility requirements**

In-depth combined study of algebra, trigonometry, and other topics for calculus readiness. Graphing calculator required. Lab required. 4 credit hours. This is a dual credit course and may qualify as 1/2 of the 4th high school, math credit as well as 3 college credit hours. Students must complete Dual Credit College Algebra (MATH 1314) before taking this course.

**Dual Credit Math:  
MATH 2413 Calculus I – (1/2 credit)  
12th grade**

**Prerequisite: MATH 2412 and meet eligibility requirements**

Calculus is a study of limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative to maximizing or minimizing a function; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with an application to calculation of area. Graphing calculator required. Lab included. This is a dual credit course and may qualify as 1/2 of the 4th high school, math credit as well as 3 college credit hours. Students must complete Dual Credit Pre-Calculus (MATH 2412) before taking this course.

# Science Courses

*Students are advised to be aware of the math course prerequisites and co-requisites for certain science courses.*

## **Advanced Animal Science (1 credit, CTE)**

**12th grade**

**Prerequisite: 2 of 4 courses - Equine Science, Livestock Production, Small Animal Management, or Wildlife, Fisheries & Ecology Management**

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course 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. **This course may qualify as a science credit.**

## **Advanced Plant and Soil Science - (1 credit, CTE)**

**12th grade**

**Prerequisite: Horticultural Science or Landscape Design & Management**

This course 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. Investigations, laboratory practices, and field exercises will be used to develop an understanding of current plant and soil science. This course is designed to prepare students for careers in the food and fiber industry. Students will learn, reinforce, apply, and transfer their knowledge in a scientific setting. *Materials fee may be required for*

*this course. This course may qualify as a science credit.*

## **Food Science (1 credit, CTE)**

**12th grade**

**Prerequisite: Biology and Chemistry**

In Food Science students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Food Science is the study of the nature of foods, the causes of deterioration, the principles underlying food processing, and the improvement of foods for the consuming public. This is a course designed to help students understand and integrate the knowledge, skills and practices of the Food Science industry through the application of the biochemistry of food and nutrition. **Materials fee may be required for this course. This course may qualify as a science credit.**

## **Forensic Science (1 credit, CTE)**

**12th grade**

**Prerequisite: Law Enforcement I, Biology & Chemistry**

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. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects and career options for forensic science. *This course may qualify as a science credit.*

## **Integrated Physics and Chemistry (IPC)**

**9th - 10th grade**

**(1 credit)**

**Prerequisite: None**

Integrated Physics and Chemistry is a survey lab course that reinforces the foundational knowledge required for all subsequent physical science courses. Students conduct laboratory and field investigations, use scientific methods during investigation, and make informed decisions using critical thinking and scientific problem solving.

This course integrates the disciplines of physics and chemistry in the following topics: force, motion, energy, and matter.

## **Principles IPC**

**Prerequisite: Committee Recommendation**

This course addresses the IPC TEKS but contains extensive modifications as documented in each student's Individualized Education Program (IEP).

## **Applied IPC**

**Prerequisite: Committee Recommendation**

This course is based on the prerequisite skills of the IPC TEKS. Students in this course are exposed to the essence of the TEKS. Students in this course will demonstrate performance objectives that may include real life applications of the grade-level TEKS as appropriate to the student's abilities and needs.

## **Biology - (1 credit)**

**9th - 11th grade**

**Prerequisite: None**

Biology is a course designed around the study of living things. This course emphasizes a variety of topics such as functions of cells and viruses; growth and development of organisms; cells, tissues and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers in living organisms; ecosystems; living systems; homeostasis; ecosystems; and plants and the environment. Manipulative laboratory skills, skills in acquiring data, classification skills in ordering and sequencing data, oral and written communication skills, along

with career exploration will be stressed in this course. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012 & beyond.

## **Principles of Biology**

**Prerequisite: Committee Recommendation**

This course is based on the Biology TEKS but contains extensive modifications as documented in each student's Individualized Education Program (IEP). This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012 and beyond.

## **Applied Biology**

**Prerequisite: Committee Recommendation**

This course is based on the prerequisite skills of the Biology TEKS. Students in this course are exposed to the essence of the TEKS. Students in this course will demonstrate performance objectives that may include real life applications of the grade-level TEKS as appropriate to the student's abilities and needs. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012 and beyond.

## **Pre-AP Biology - (1 credit)**

**9th - 11th grade**

**Prerequisite: None**

This course extends the biology concepts and TEKS with an emphasis on preparing students to take AP Biology. Pre-AP Biology will be a lab-oriented course designed for students exhibiting advanced achievement levels in the biological sciences. This course shall exceed the content and depth of a standard Biology course both in the classroom and laboratory experiences. Pre-AP Biology will strive for higher levels of learning; creative thinking, and critical evaluation tenets such as analyzing, synthesizing, and formulating logical conclusions. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012 and beyond.

**AP Biology - (1 credit)**

11th – 12th grade

**Prerequisite: Biology and Chemistry,  
or Teacher Recommendation**

AP Biology is a course designed to be the equivalent of a college-level biology course. This course will provide students with the framework, factual knowledge and analytical skills necessary to deal with the rapidly changing science of biology. This course emphasizes topics such as microbiology, biochemistry, genetics, evolution, organisms and their environment and includes extensive biological laboratory experiences. This course is intended to prepare students to take the AP Biology exam in order to earn college course credit depending on exam score. Students may complete an independent research project.

*Additional contact time outside the normal school may be required. This is a college level course.*

**Dual Credit Science:****BIOL 1406 Biology for Science Majors I - (1/2 credit)**

12th grade

**Prerequisite: Meet eligibility requirements**

Lecture: Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, and scientific reasoning are included. Lab: Laboratory activities will reinforce the fundamental principles of living organisms, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Study and examination of the concepts of cytology, reproduction, genetics, and scientific reasoning are included. Lab required. 4 credit hours. This course satisfies ½ credit toward the high school 4th year science requirement.

**Dual Credit Science:****BIOL 1407 Biology for Science Majors II - (1/2 credit)**

12th grade

**Prerequisite: BIOL 1406 and meet eligibility requirements**

Lecture: The diversity and classification of life will be studied, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. Lab: Laboratory activities will reinforce study of the diversity and classifications of life, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. Lab required.

Prerequisite: BIOL 1406. 4 credit hours. This course satisfies ½ credit toward the high school 4th year science requirement.

**Dual Credit Science:****BIOL 1408 Biology for Non-Science Majors I - (1/2 credit)**

12th grade

**Prerequisite: Meet eligibility requirements**

Lecture: Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. Lab: Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. Lab required. 4 credit hours. This course satisfies ½ credit toward the high school 4th year science requirement.

**Dual Credit Science:****BIOL 1409 Biology for Non-Science Majors II - (1/2 credit)****12th grade****Prerequisite: BIOL 1408 and meet eligibility requirements**

Lecture: This course will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. Lab: Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. Lab required. This course satisfies ½ credit toward the high school 4th year science requirement.

**Chemistry - (1 credit)****10th - 12th grade****Prerequisite: One unit of high school science and Algebra I****Co-requisite: Geometry**

This course emphasizes a variety of topics that include: characteristics of matter, energy transformations during physical and chemical changes; atomic structure; the periodic table of elements; behavior of gases; bonding; nuclear fusion and nuclear fission; oxidation-reduction; chemical equations; solutes; properties of solutions; acids and bases; and stoichiometric relationships. Chemistry is a course that is oriented toward college preparation and is grounded in a laboratory approach to the study of the matter. Manipulative laboratory skills, skills in acquiring data, classification skills in ordering and sequencing data, oral and written communication skills, along with career exploration will be stressed in this course. Semesters must be completed in sequence (1st then 2nd).

**Principles of Chemistry – (1 credit)****Prerequisite: One unit of high school science and Algebra I / Committee Recommendation****Co-requisite: Geometry**

This course is based on the Chemistry TEKS but contains extensive modifications as documented in each student's Individualized Education Program (IEP).

**Applied Chemistry – (1 credit)**

This course is based on the prerequisite skills of the chemistry TEKS. Students in this course are exposed to the essence of the TEKS. Students in this course will demonstrate performance objectives that may include real life applications of the grade-level TEKS as appropriate to the student's abilities and needs.

**Pre-AP Chemistry - (1 credit)****10th - 12th grade****Prerequisite: One unit of high school science and Geometry****Co-requisite: Algebra II - recommended**

This course extends the chemistry concepts and TEKS with an emphasis on preparing students to take AP Chemistry. Pre-AP Chemistry will be a lab-oriented course designed for students exhibiting advanced achievement levels in the chemical sciences. This course shall exceed the content and depth of a standard Chemistry course both in the classroom and laboratory experiences. Pre-AP Chemistry will strive for higher levels of learning; creative thinking, and critical evaluation tenets such as analyzing, synthesizing, and formulating logical conclusions.

**AP Chemistry - (1 credit)****11th – 12th grade****Prerequisite: Chemistry & Algebra II or Teacher Recommendation**

AP Chemistry is a course designed to cover material found in the college level general chemistry course and is for the college-bound science/engineering/pre-veterinary/premedical/pre-dental student. This course incorporates a more extensive quantitative understanding of the physical principles of chemistry. Major topics include electrochemistry, kinetics, thermodynamics and equilibrium. Advanced laboratory investigations involving independent data analysis are a major part of this course. This course is intended to prepare students to take the AP Chemistry exam in order to earn college course credit depending on exam score. Students may complete an independent research project. *Additional contact time outside the normal school may be required. This is a college level course.*

**Physics - (1 credit)****9th – 12th grade****Prerequisite: Algebra I****Co-requisite: Geometry (required) / Algebra II (recommended)**

Physics is designed to provide a laboratory-oriented approach to the study of matter and energy. The course provides for the development of understanding of the physical laws and devices that govern the world around us. Topics of study include motion, forces, energy, momentum, thermodynamics, waves, and modern physics. This course emphasizes the use of mathematics to solve problems.

**AP Physics 1- (1 credit)****9th – 12th grade****Prerequisite: Geometry****Co-requisite: Algebra II (required) / Pre-Calculus (recommended)****Prerequisite note: Students who have completed PAP Physics are not allowed to take AP Physics 1.**

AP Physics 1 is equivalent to the first semester of a typical introductory, algebra-based college physics course. Topics of study include Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Emphasis is placed on student-centered, inquiry-based instructional practices to develop scientific critical thinking and reasoning skills. After taking AP Physics 1, students may choose to continue their study of physics in either AP Physics 2 or AP Physics C.

This course is intended to prepare students to take the AP Physics 1 exam in order to earn college course credit depending on exam score. *Additional contact time outside the normal school day may be required. This is a college level course.*

**AP Physics 2 - (1 credit)****10th - 12th grade****Prerequisite: Physics****Co-requisite: Pre-Calculus**

AP Physics 2 is equivalent to the second semester of a typical introductory, algebra-based college physics course. Topics of study include fluids, thermodynamics, electricity, magnetism, optics, and topics in modern physics. Emphasis is placed on student-centered, inquiry-based instructional practices to develop scientific critical thinking and reasoning skills. This course continues to develop a foundation in physics for students interested in the life sciences, pre-medicine, and some applied sciences. This course is intended to prepare students to take the AP Physics 2 exam in order to earn college course credit depending on exam score. *Additional contact time outside the normal school day may be required. This is a college level course.*

**AP Physics C - (2 credits)****10th - 12th grade****Prerequisite: Physics and Pre-Calculus****Co-requisite: AP Calculus (AB or BC)**

AP Physics C is a calculus-based physics course that ordinarily forms the first and second semesters of the college sequence for students majoring in the physical sciences or engineering. Topics of study include kinematics, dynamics, energy, momentum, rotation, gravitation, oscillation, electric force and field, electric circuits, magnetic force and fields, and electromagnetic induction. Methods of calculus are used wherever appropriate in formulating physical principles and in applying them to physical problems. In addition to developing conceptual understanding, strong emphasis is placed on critical thinking and reasoning skills. This course is intended to prepare students to take the AP Physics C: Mechanics and AP Physics C: Electricity and Magnetism exams in order to earn college course credit depending on exam scores. *Additional contact time outside the normal school day may be required. This is a college level course.*

**Environmental Systems - (1 credit)****11th – 12th grade****Prerequisite: Biology and IPC or Chemistry**

Environmental Systems is a course in which students study a variety of topics that include: biotic and abiotic factors in habitats; ecosystems and biomes; interrelationships among resources and an environmental system; sources and flow of energy through an environmental system; relationships between carrying capacity and changes in populations and ecosystems; and changes in environments. Students will conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving.

**Principles of Environmental Systems – (1 credit)****Prerequisite: Biology and IPC or****Chemistry/Committee Recommendation**

This course is based on the Environmental Systems TEKS but contains extensive modifications as documented in each student's Individualized Education Program (IEP).

**Applied Environmental Systems – (1 credit)****Prerequisite: Committee Recommendation**

This course is based on the prerequisite skills of the Environmental Systems TEKS. Students in this course are exposed to the essence of the TEKS. Students in this course will demonstrate performance objectives that may include real life applications of the grade-level TEKS as appropriate to the student's abilities and needs.

**AP Environmental Science (1 credit)****10th – 12th grade****Prerequisite: Biology and Algebra I****Co-requisite: Chemistry**

AP Environmental Science (APES) is a lab-based, interdisciplinary science course equivalent to a college level introductory environmental science course. The goal of APES is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and man-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions. This course is intended to prepare students to take the APES exam in order to earn college course credit depending on exam score. Students may complete an independent research project. *Additional contact time outside the normal school day may be required. This is a college level course.*

**Aquatics - (1 credit)****10th - 12th grade****Prerequisite: Biology**

Aquatic science is the study a variety of topics that include: roles of cycles in an aquatic ecosystem; geologic and fluid dynamics; components of aquatic ecosystems, fresh, salt and estuary; relationships among aquatic habitats and ecosystems; changes within aquatic habitats and environments; and the origin and use of water in a watershed. It is a course in which students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving.

**Principles of Aquatics - (1 credit)****Prerequisite: Biology / Committee****Recommendation**

This course is based on the Aquatics TEKS but contains extensive modifications as documented in each student's Individualized Education Program (IEP).

**Applied Aquatics- (1 credit)****Prerequisite: Committee Recommendation**

This course is based on the prerequisite skills of the Aquatics TEKS. Students in this course are exposed to the essence of the TEKS. Students in this course will demonstrate performance objectives that may include real life applications of the grade-level TEKS as appropriate to the student's abilities and needs.

**Anatomy and Physiology - (1 credit)****10th – 12th grade****Prerequisite: Biology Co-requisite: Chemistry**

Anatomy and Physiology is a college preparatory and a laboratory-oriented course that will provide opportunities for the student to observe anatomical structures and examine physiological systems. Acquiring, classifying, and sequencing data; experiences in oral and written communication; and career explorations are skills that will be addressed in this course. Students in

this course may choose to take courses in Health Science Technology. This course may count as the 4th science credit in the recommended and DAP graduation plans.

**Medical Microbiology - (1 credit, CTE)****11th –12th grade****Prerequisite: Biology, Chemistry and Anatomy & Physiology**

Medical Microbiology is a college preparatory and laboratory-oriented course that will provide opportunities for the student to identify and culture microorganisms that are of interest in the medical field. The student will learn lab techniques for working safely with microorganisms and will investigate the physiological effects of various microorganisms on the human body. The course is intended to provide high school exposure to microbiology concepts for the student who is particularly interested in a health-related career track or for the student who is interested in the biological sciences. *Materials fee may be required for this course. This course may qualify as a science credit.*

**Pathophysiology - (1 credit, CTE)****11th –12th grade****Prerequisite: Biology, Chemistry and Anatomy & Physiology**

Pathophysiology is a college preparatory and laboratory-oriented course that will provide opportunities for the student to study the nature of disease, its causes, and the various affects diseases have on the human body. The student will apply proper lab techniques to the study of healthy and diseased tissue and be able to recognize samples of each. The course is intended for the student who is particularly interested in a health-related career track or for the student who is interested in the biological sciences. *Materials fee may be required for this course. This course may qualify as a science credit.*



**Earth and Space Science - (1 credit)****11th - 12th grade****Prerequisite: Three units of science and three units of math (3rd and 4th science credits may be taken concurrently)**

Earth and Space Science (ESS) is a capstone course that builds on prior scientific knowledge and skills to provide high schools students an understanding of the Earth System. This course focuses on three major science concepts: the Earth in Space and Time, Solid Earth, and Fluid Earth. These concepts would normally be found as topics among the sciences of geology, oceanography, meteorology, cosmology, and astronomy. In ESS, students will apply and integrate the science concepts and principals learned in previous grades, examine authentic situations that extend beyond the boundaries of the classroom. Students will engage in acquiring, processing, and analyzing scientific data and build upon reading, writing, research, and quantitative skills learned in previous science courses.

**Astronomy – (1 credit)****11<sup>th</sup>-12<sup>th</sup> grade****Prerequisite: Three units of science**

In Astronomy, students conduct laboratory and field investigations, use scientific methods, and make informed decisions using critical thinking and scientific problem solving. Students study the following topics: astronomy in civilization, patterns and objects in the sky, our place in space, the moon, reasons for the seasons, planets, the sun, stars, galaxies, cosmology, and space exploration. Students will utilize concepts from Biology, Chemistry, and Physics to acquire knowledge about astronomical concepts, conduct observations of the sky, work collaboratively, and develop critical-thinking skills.

# Social Studies and Economics Courses

## **World Geography - (1 credit)**

**9th grade**

**Prerequisite: None**

World Geography is the study of the earth, its regions, and the people who live in these regions. Students will study topography, weather, and climate of each region as well as the languages, customs, and ways of living of the people who inhabit these regions. In addition, the interaction of people with the environment and with each other will be studied. Students will become familiar with the relative locations of the world's continents, oceans, and countries and will learn to use maps, charts, graphs, and other methods of research used by geographers.

## **Principles World Geography - (1 credit)**

**Prerequisite: Committee Recommendation**

This course is based on the World Geography TEKS with modifications implemented to meet the needs of the students.

## **Applied World Geography - (1 credit)**

**Prerequisite: Committee Recommendation**

This course is based on the prerequisite skills of the World Geography TEKS. Students in this course are exposed to the essence of the TEKS. Students in this course will demonstrate performance objectives that may include real life applications of the grade-level TEKS as appropriate to the student's abilities and needs.

## **AP Human Geography - (1 credit)**

**9th grade**

**Prerequisite: none**

This course combines the state requirements for World Geography with the Advanced Placement Human Geography course. It is designed to allow 9th graders to develop the skills necessary to be successful in Advanced Placement courses. This course introduces students to the patterns and processes of the earth, its regions, and its people. In examining how people have interacted with the

earth over time, students will examine concepts such as culture, population, political organization, cities, agriculture and land use, as well as industrialization and economic development. They also learn about the methods and tools geographers use in their science and practice. Students taking this course should have strong reading and writing skills. Upon completion of this course, interested students will also be eligible to take the national AP examination in May to earn college credit.

## **World History Studies - (1 credit)**

**10th grade**

**Prerequisite: None**

World History aims both to discover general knowledge about the development and diffusion of civilization and to foster an appreciation that such knowledge is vitally important to understanding our modern era. This course aims to develop students' historical understanding, broaden their perspective on world affairs and sharpen their critical thinking skills.

## **Principles World History - (1 credit)**

**Prerequisite: Committee Recommendation**

This course is based on the World History TEKS with modifications implemented to meet the needs of the students.

## **Applied World History - (1 credit)**

**Prerequisite: Committee Recommendation**

This course is based on the prerequisite skills of the World History TEKS. Students in this course are exposed to the essence of the TEKS. Students in this course will demonstrate performance objectives that may include real life applications of the grade-level TEKS as appropriate to the student's abilities and needs.

**AP World History - (1 credit)****10th grade****Prerequisite: None**

AP World History is designed to develop greater understanding of the evolution of global processes and contacts in interactions with different types of human societies. It highlights the nature of continuity and change over time and offers global coverage of Africa, the Americas, Asia and Europe. The course stresses the linkages between people and states formed through trade, the resultant migration of people and ideas, the mobilizations of mass society, revolutions, and the impact of technology upon humankind. *This college level course* will be both rigorous and rewarding and is open to all high school students who are motivated and willing to do advanced work. It moves rapidly and covers a lot of ground but teaches students skills needed to critically read, take notes and write historical essays. Interested students would be eligible to take the AP examination in May to qualify to earn college credit.

**GT Humanities I / Pre-AP English I - (1 credit)****9th grade****Prerequisite: Identification / Selection as Gifted/Talented**

GT Humanities I / Pre-AP English I and GT Humanities II / AP World History are courses that provide gifted students with opportunities not available through regular or advanced classes. The courses combine Pre-AP English I with AP World History in a two-year interdisciplinary spiral. The basic content is a historical study of the commonalities of the fine arts, including literature, the visual arts, architecture, and music. Students will learn and practice the craft of writing through various products, including AP style writing. Literature from a variety of world traditions will also be a key focus. Beginning in 2016-17, ninth and tenth grade students will sit in the same class while earning credit in separate courses; ninth graders will earn Pre-AP English I credit while tenth graders earn AP World History credit. At the conclusion of GT Humanities II, students can sit

for the AP World History exam to possibly earn college credit. *GT Humanities does NOT fulfill the fine arts requirement for graduation and is not recognized as a fine arts course by TEA.*

**GT Humanities II / AP World History - (1 credit)****10th grade****Prerequisite: Identification / Selection as Gifted/Talented and GT Humanities I**

See above course description for GT Humanities I / Pre-AP English.

**United States History - (1 credit)****11th grade****Prerequisite: None**

United States History covers the period after Reconstruction to the present and will include the following: emergence of the United States as a world power, the economic development and growth of the United States, and the social and cultural development of the United States. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012 and beyond.

**Principles of U.S. History - (1 credit)****Prerequisite: Committee Recommendation**

This course is based on the US History TEKS with modifications implemented to meet the needs of the students. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012 and beyond.

**Applied U.S. History - (1 credit)****Prerequisite: Committee Recommendation**

This course is based on the prerequisite skills of the US History TEKS. Students in this course are exposed to the essence of the TEKS. Students in this course will demonstrate performance objectives that may include real life applications of the grade-level TEKS as appropriate to the student's abilities and needs. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

**AP U.S. History - (1 credit)****11th grade****Prerequisite: None**

AP United States History is a **college level course** designed to give students the opportunity to study the history and development of the United States in a more in-depth manner than regular United States History. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. The content for this course emphasizes the Colonial-Revolutionary War Period, Constitutional Period, the Age of Jackson, the Civil War and Reconstruction, the Progressive Era, the New Deal, and the emergence of America as a world power after World War II. Students will learn to assess historical materials – their relevance to a given interpretive problem, reliability and their importance – and to weigh the evidence and interpretations presented in historical scholarship. Great emphasis is placed on the intellectual, cultural and socioeconomic history of the United States. Students will also study and analyze the politics and diplomacy of this country. Students will have the opportunity to take the Advanced Placement Exam upon completion of the course. This course fulfills the graduation requirement of U.S. History. This course covers the 11th grade standards (TEKS) in a different time frame and sequence than on-level U.S. History. Students are strongly encouraged to complete both semesters of AP U.S. History. Students that move from this course to on-level U.S. History during or at the semester will have gaps in coverage of 11th grade standards (TEKS) potentially impacting preparedness for TAKS or End of Course Test. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012 and beyond.

**Dual Credit US History:****HIST 1302 U.S. History II – (1/2 credit)****11th grade****Prerequisite: Must meet eligibility requirements**

A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction period to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War, and post-Cold War eras. Themes that may be addressed in United States History II include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy. 3 credit hours. This course satisfies ½ credit of required high school US History credit and should be paired with HIST 1301 in the second semester. Students completing HIST 1302 in fall semester are required to take the Texas End of Course Exam (EOC) for US History in the December testing administration.

**HIST 1301 U.S. History I – (1/2 credit)****11th grade****Prerequisite: Must meet eligibility requirements**

A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed in United States History I include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government. 3 credit hours. This course satisfies ½ credit of required high school US History credit and should be paired with HIST 1302 in the first semester. Students completing HIST 1301 and 1302 are required to take the Texas End of Course Exam (EOC) for US History in the December testing administration.

**U.S. Government - (1/2 credit)****12th grade****Prerequisite: None**

United States Government provides an opportunity for students to study foundations of the United States political system, development of the United States governmental system, the structure and functions of the United States government, and the role of decision-making in civic affairs.

**Principles of Government - (1/2 credit)****Prerequisite: Committee Recommendation**

This course is based on the Government TEKS with modifications implemented to meet the needs of the students.

**Applied Government - (1/2 credit)****Prerequisite: Committee Recommendation**

This course is based on the prerequisite skills of the Government TEKS. Students in this course are exposed to the essence of the TEKS. Students in this course will demonstrate performance objectives that may include real life applications of the grade-level TEKS as appropriate to the student's abilities and needs.

**AP U.S. Government - (1/2 credit)****12th grade****Prerequisite: None**

AP United States Government is a course designed to give students an analytical perspective on government and politics in the United States. This course covers the constitutional foundations, political beliefs and behaviors, political parties and interest groups that make up the US government. All areas of the federal government – Congress, the presidency, bureaucracy, judiciary and civil liberties and civil rights are studied. This course involves both the study of general concepts used to interpret US politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs and ideas that constitute US political reality. Students will have the opportunity to take the AP exam upon completion of this course. *This is a college level course.*

**Dual Credit Government:****GOVT 2305 Federal Government (1/2 credit)****12th grade****Prerequisite: Meet eligibility requirements**

Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights. 3 credit hours. This course satisfies the high school requirement of Government.

**Dual Credit Elective:****GOVT 2306 Texas Government – (1/2 credit)****12th grade****Prerequisite: Meet eligibility requirements**

Origin and development of the Texas Constitution, structure and powers of the state and local government, federalism and inter-governmental relations, political participation, the election process, public policy and the political culture of Texas. 3 credit hours. This course satisfies ½ elective credit toward high school graduation.

**Economics - (1/2 credit)****12th grade****Prerequisite: None**

Economics with Emphasis on the Free Enterprise System and Its Benefits emphasizes the American free enterprise system, government in the American economic system, American economic system and international economic relations, consumer economics, and social studies attitudes, values, and skills for citizenship.

**Principles of Economics - (1/2 credit)****Prerequisite: Committee Recommendation**

This course is based on the Economics TEKS with modifications implemented to meet the needs of the students.

**Applied Economics - (1/2 credit)****Prerequisite: Committee Recommendation**

This course is based on the prerequisite skills of the Economics TEKS. Students in this course are exposed to the essence of the TEKS. Students in this course will demonstrate performance objectives that may include real life applications of the grade-level TEKS as appropriate to the student's abilities and needs.

**Dual Credit Economics:****ECON 2302 Principles of Microeconomics – (1/2 credit)****12th grade****Prerequisite: Must meet eligibility requirements**

Analysis of the behavior of individual economic agents, including consumer behavior and demand, producer behavior and supply, price and output decisions by firms under various market structures, factor markets, market failures, and international trade. Prerequisite: Meet TSI college-readiness standard for Reading and Writing; or equivalent. 3 credit hours. This course fulfills the high school requirement for Economics.

**AP Macroeconomics - (1/2 credit)****12th grade****Prerequisite: None**

Rising interest rates, unemployment, taxes, government spending, saving, investing, the global economy, all of these topics are included in the study of Macroeconomics. If you want to know how the government affects the economy and how the economy will affect your future, then you need to take this course. Students will have the opportunity to take the Advanced Placement exam upon completion of this course. This challenging, but fun course fulfills the graduation requirements of Economics. **This is a college level course.**

**AP European History - (1 credit)****11th - 12th grade****Prerequisite: None**

AP European History is a course designed to provide opportunities for students to study the history and development of European cultures and ideas in an in-depth manner. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Significant emphasis is given to questions in intellectual-cultural and social-economic history, as well as to those in the more traditional political-diplomatic sphere. Students are expected to demonstrate knowledge of basic chronology and major events and trends from the High Renaissance to the present. In addition to understanding the principal themes in European history, the students will develop their ability to analyze historical events, to assess historical materials, and to weigh the evidence and interpretations presented in historical scholarship. Students will have the opportunity to take the Advanced Placement Exam upon completion of the course. This is an elective course and cannot be substituted for the graduation requirement of World History. **This is a college level course.**

**Personal Financial Literacy - (1/2 credit)****11th - 12th grade****Prerequisite: None**

Personal Financial Literacy will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility. Students will apply critical-thinking and problem-solving skills to analyze decisions involving earning and spending, saving and investing, credit and borrowing, insuring and protecting, and college and post-secondary education and training.

**Sociology - (1/2 credit)****10th - 12th grade****Prerequisite: None**

Sociology is an upper-level academic elective. The understanding of sociology as the scientific and systematic study of human behavior observed through patterns will be accomplished using the following methods: textbook reading, mastering sociological concepts and definitions, participating in class discussions, teacher lecturing, role playing, and small group activities. Students should be self-motivated and comfortable in participating in classroom discussions. Students will be required to research a current social problem and present findings.

**Dual Credit Elective:****SOCI 1301 Introduction to Sociology****(1/2 credit)****Offered starting in 2018-19****11th -12th grade****Prerequisite: Meet eligibility requirements**

The scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ethnicity, and deviance. 3 credit hours. This course satisfies ½ elective credit toward high school graduation.

**Psychology - (1/2 credit)****10th - 12th grade****Prerequisite: None**

Psychology encompasses broad areas of study about human behavior and it enables the students to better understand themselves and others. The goal of this course is to create active intellectual and emotional involvement by the student, not only in learning about the science of psychology, but in life as well. It is a one semester elective course.

**AP Psychology - (1/2 credit)****10th - 12th grade****Prerequisite: None**

Advanced Placement Psychology is a one-semester **college-level course** that addresses such questions as it surveys the field of psychology from research into human behavior to the application of its findings in treatment. The course itself will have a theoretical and a practical emphasis. On the theoretical side, you will gain knowledge of psychological concepts and principles. On the practical side, you will be expected to demonstrate how these ideas can be applied in everyday matters of human activity. This requires not only a thorough understanding of the material beyond textbook definitions, but an active participation in class discussions and activities. Note: Beginning in 2015 the new MCAT (Medical College Admissions Test) will require a section on the "Psychological, Social, and Biological Foundations of Behavior". AP Psychology would provide a strong foundation for students interested in the medical field.

**Dual Credit Elective:**  
**PSYC 1300 – Learning Framework**  
**(1/2 credit)**

**10th -12th grade**

**Prerequisite: Meet eligibility requirements**

A study of the 1) research and theory in the psychology of learning, cognition, and motivation, 2) factors that impact learning, and 3) application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g. learning inventories) to help them identify their

own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned. 3 credit hours. This course satisfies ½ elective credit toward high school graduation. Students who have taken high school Psychology may enroll in this dual credit course.



# AP Capstone Program

## **AP Seminar Course - (1 credit)**

**10th - 12th grade**

**Prerequisite: None**

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Students will complete various assessments throughout the year to earn an Advanced Placement Exam score that may allow them to earn college credit.

Students who earn scores of 3 or higher in AP Seminar and AP Research will receive the AP Seminar and Research Certificate© signifying their attainment of college-level academic and research skills. In addition, students who earn a 3 or higher in four additional AP Courses will receive the AP Capstone Diploma©. Students receive a GPA weighted credit as with all other AP courses. Note: This course cannot be dropped until semester. The Exam Fee for this course \$141. For further information, please consult the College Board Website: <https://lp.collegeboard.org/ap-capstone>

## **AP Research Course - (1 credit)**

**10th - 12th grade**

**Prerequisite: Successful Completion of AP Seminar**

AP Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research based investigation to address a research question. In the AP Research course, students further their skills acquired in the AP Seminar course by understanding research methodology; employing ethical research practices; and accessing, analyzing, and synthesizing information as they address a research question. Students explore their skill development, document their processes, and curate the artifacts of the development of their scholarly work in a portfolio. The course culminates in an academic paper of approximately 4000–5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense. Students will complete various assessments throughout the year to earn an Advanced Placement Exam score that may allow them to earn college credit. Students who earn scores of 3 or higher in AP Seminar and AP Research will receive the AP Seminar and Research Certificate© signifying their attainment of college-level academic and research skills. In addition, students who earn a 3 or higher in four additional AP Courses will receive the AP Capstone Diploma©. Note: This course cannot be dropped until semester. The Exam Fee for this course \$141. For further information, please consult the College Board Website:

<https://lp.collegeboard.org/ap-capstone>

# Fine Arts Courses

## Art

### **Art I - (1 credit)**

**9th – 12th grade**

**Prerequisite: None**

Art I is an introductory course in which students will learn how to use the elements and principles of art to create a variety of two and three dimensional art (art production). Media explored will include but will not be limited to, drawing, painting, printmaking, sculpture, ceramics, and fibers. Students will also be introduced to the historical and cultural influences on art (art history). They will explore the philosophical nature of art (aesthetics) and students will learn to make critical judgments about art (art criticism). Art 1 is a yearlong course in which first semester skills are needed to be successful in semester two. *Students are required to purchase a specific list of supplies.* Supplies must be purchased during the first 2 weeks of school to remain in the class.

### **Pre AP Art I - (1 credit)**

**Entering 9th grade in 2014-15 or after**

**Prerequisite: None**

Pre Advanced Placement Art I may be substituted for Art I. Art I curriculum will be covered however students will be required to produce work at a more advanced level both in quality and quantity. This course is designed specifically to challenge the student that has had 2-3 years of middle school art credit and / or is intending to pursue the more rigorous AP Studio Art classes. Students will learn what will be expected of them for the AP Portfolio Examination. *Students are required to purchase a specific list of supplies.* Supplies must be purchased during the first 2 weeks of school to remain in the class.

### **Art II - (1 credit)**

**10th - 12th grade**

**Prerequisite: Art I - Pre AP Art I**

Art II offers instruction in a variety of media and techniques and builds on the skills and information learned in Art I. Emphasis is on skill building and creative problem solving however, art history, aesthetics, and art criticism will also be addressed. Art II is an intensive yearlong course in basic drawing, design, and painting with some three dimensional work designed to challenge the students who are planning to take advanced art classes. First semester skills are needed to be successful in semester two. *Students are required to purchase a specific list of supplies.* Supplies must be purchased during the first 2 weeks of school to remain in the class.

### **Pre-AP Art II- (1 credit)**

**10th - 12th grade**

**Prerequisite: Art I - Pre-AP Art I recommended**

The Pre-AP Art II Curriculum is designed to spiral and expand the Art I or Pre AP Art I curriculum. The Pre AP Art II coursework follows College Board outlines for advanced placement studio portfolios. Student will apply the elements and principles of art in all compositions to a greater proficiency than other Art II students as well as connect art history and criticism to those productions. Students will develop skills in drawing and color theory application beyond the average Art II student as they continue reviewing requirements of the AP examination. Students extend learning through higher expectations in painting, printmaking, technology, sculpture and ceramics. Pre AP Art II is an honors credit class recommended for students seriously looking at visual art career. It will begin preparing and focusing students on developing breadth pieces used in the AP portfolio. *Students are required to purchase a specific list of supplies.* Supplies must be purchased during the first 2 weeks of school and will remain in the class.

**Art II Ceramics - (1 credit)****10th - 12th grade****Prerequisite: Art I - Pre AP Art 1**

This accelerated course in ceramic techniques will address the history of ceramics, modeling, molding, casting, carving construction and assemblage. This course will also cover throwing on the wheel, kiln firing, primitive firing, glaze chemistry and surface design. Further, exhibition, portfolio development, and development of a series or collection of ceramic work related to central concept will be a goal. *Students are required to purchase a specific list of supplies or pay a supply fee.* Supplies must be purchased during the first 2 weeks of school remain in the class.

**Art III-IV - (1 credit)****11th - 12th grade****Prerequisite: Art II/III**

Art III and IV are intensive yearlong courses that continue instruction in a variety of media and techniques and are designed for the student who is seriously interested in the practical experience of art. Emphasis is on skill building and creative problem solving however, art history, aesthetics, and art criticism will also be addressed. The course is oriented toward exhibitions and competitions and the development of individual artistic strengths and interests. Emphasis is on skill building and creative problem solving however, art history, aesthetics, and art criticism will also be addressed. First semester skills are needed to be successful in semester two. *Students are required to purchase a specific list of supplies.* Supplies must be purchased during the first 2 weeks of school to remain in the class.

**AP Studio Art-Drawing - (1 credit)****10th - 12th grade****Prerequisite: Art II - Pre AP I recommended**

Advanced Placement Studio Art is a rigorous **college level** drawing portfolio class designed for students who are seriously interested in the practical experience of art. This College Board Program provides the only national standard for performance in the visual arts that allows students to earn college credit and/or advanced placement while still in high school. First year AP Art students prepare a Drawing Portfolio. The portfolio requires actual examples and digital images of student artwork within a three-section structure of quality, concentration and breadth. *Students are required to purchase a specific list of supplies, and a matting fee. Additional supply cost may also be incurred.*

Supplies for AP will overlap with students enrolled in Art II, III, and IV. Supplies must be purchased during the first 2 weeks of school to remain in the class. Matting fees must be turned in by the end of the first six weeks. If possible, students should take AP Art with a regular Art class. AP students are given the opportunity to submit a portfolio exam to the College Board for college credit.

**AP Art History - (1 credit)****10th – 12th grade****Prerequisite: None (World, European or U. S. History recommended)**

AP Art History is a yearlong college level course designed to introduce students to the rich traditions of western and non-European architecture, sculpture, painting and other art forms. Through factual knowledge, exploration of aesthetic principles and comparative criticism students strive to interpret and evaluate the visual communication of past ages and distant cultures while gaining insight into the motivation, inspiration and environment of each era. AP students are given the opportunity to take the College Board exam for college credit.

**AP Studio Art 2D- Design - (1 credit)**

**10th - 12th grade**

**Prerequisites: Pre AP Art I or Art II recommended**

Advanced Placement Studio Art Design portfolios is a rigorous course designed for students who are seriously interested in the practical experience of art. This College Board Program provides the only national standard for performance in the visual arts that allows students to earn college credit and/or advanced placement while still in high school. First year AP Art Design students take AP Art 2D Design and second year AP Art Design students take AP Art- 3-D Design. Both portfolios require actual examples and electronic submissions of student artwork within a three-section structure of quality, concentration and breadth. *Students are required to purchase a specific list of supplies and a matting fee. Additional supply costs may also be incurred.* Supplies for AP Art will overlap with the students enrolled in Art III and IV. Supplies must be purchased during the first 2 weeks of school to remain in the class. If possible, students should take AP Art with a regular Art III/IV class. AP students are given the opportunity to submit a portfolio exam to the College Board for college credit.

**AP Studio Art 3D- Design - (1 credit)**

**11th - 12th grade**

**Prerequisites: AP Studio Art 2D Design recommended)**

Advanced Placement Studio Art Design portfolios are designed for students who are seriously interested in the practical experience of art. This College Board Program provides the only national standard for performance in the visual arts that allows students to earn college credit and/or advanced placement while still in high school. First year AP Art Design students take AP Art 2D Design and second year AP Art Design students take AP Art- 3-D Design. Both portfolios require actual examples and electronic submissions of student artwork within a three-section structure of quality, concentration and breadth. *Students are required to purchase a specific list of supplies and a matting fee. Additional supply costs may also be*

*incurred.* Supplies for AP Art will overlap with the students enrolled in Art III and IV.

**Floral Design (1 credit)**

**10th –12th grade**

**Prerequisite: none**

To be prepared for careers in floral design, students need to attain academic skills and knowledge as well as technical knowledge and skills related to horticultural systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply and transfer their knowledge and skills and technologies in a variety of settings. This course 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 develop respect for the traditions and contributions of diverse cultures. Students respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations. *Materials fee required for this course. May count as a fine arts credit.*

## **Music**

### **Band - (1 credit)**

**9th – 12th grade**

**Prerequisite: Audition and Teacher recommendation**

Band is a full year course concentrating on the continued development of fundamental wind and percussion skills. Students will be exposed to many styles of music through rehearsal and performances throughout the year. Participating in fall marching band allows students to waive ½ credit of the required P.E. credits. Students enrolling in any band course are required to participate in marching band. Special exceptions to this may only be considered in extenuating health related circumstances and must be discussed directly with the program director and campus principal or their designee for consideration. *Additional expenses for supplies will be incurred.* A balanced focus on both individual and ensemble development occurs throughout both semesters.

### **Instrumental Ensemble Band - (1 credit)**

**9th -12th grade**

**Prerequisite: Audition and Teacher recommendation**

Instrumental ensemble is a full year course that serves as the double block for band courses. The concentration of this course is a continuation of the curricular development happening in the band program. Exceptions to the Instrumental Ensemble course expectation must be discussed with the band director and campus principal or designee.

### **Music Theory - (1 credit)**

**9th – 12th grade**

**Prerequisite: Application**

Music Theory I is a composition-based study of the mechanics of music. May include instruction in use of music software in the Music Theory Computer Lab, an introduction to music history, fundamental piano skills, and basic ear training.

### **AP Music Theory - (1 credit)**

**10th - 12th grade**

**Prerequisite: Music Theory I and teacher recommendation**

AP Music Theory is a composition-based course in the advanced study of music. This **college level course** implements detailed notation, terminology, the reading and writing skills of harmony, analysis, aural skills, and sight singing.

### **Instrumental Ensemble Orchestra - (1 credit)**

**9th -12th grade**

**Prerequisite: Teacher Recommendation**

Instrumental ensemble is a full year course that serves as the double block for orchestra courses on campuses where offered. Please check with the program director to see if this option is available at the campus where you are assigned. The concentration of this course is a continuation of the curricular development happening in the orchestra program. Exceptions to the Instrumental Ensemble course expectation must be discussed with the orchestra director and campus principal or designee.

## **Orchestra - (1 credit)**

**9th -12th grade**

### **Prerequisite: Teacher recommendation**

Orchestra is a rigorous, full year course concentrating on the continued development of string performance skills. The rehearsal and performance schedules are demanding, including outside of school practices, contests, sectionals, and concerts. Additional expenses for supplies will be incurred. A balanced focus on both individual and ensemble development occurs throughout both semesters.

## **Choir- (1 credit)**

**9th -12th grade**

### **Prerequisite: None**

Choir is a full year course concentrating on the development of vocal performance technique and musicianship. Students will be exposed to many styles of music through rehearsal and performance throughout the year. Students will perform primarily as a group with opportunities for solo performance, if desired. **Additional expenses for supplies will be incurred.**

## **Vocal Ensemble - (1 credit)**

**9th -12th grade**

### **Prerequisite: Teacher Recommendation**

Vocal ensemble is a full year course that serves as the double block for choir courses on campuses where offered. Please check with the program director to see if this option is available at the campus where you are assigned. The concentration of this course is a continuation of the curricular development happening in the choral program. Exceptions to the Vocal Ensemble course expectation must be discussed with the choir director and campus principal or designee.

## **Theatre Arts**

### **Theatre Arts I - (1 credit)**

**9th – 12th grade**

#### **Prerequisite: None**

Theatre Arts I general areas of study include but are not exclusive to the following: performance skills of improvisation, pantomime, mime, voice and diction, stage movement and acting. Additional areas explored are history of the theatre and careers in theatre. Technical aspects discussed are design concepts of lighting, sound, scenery, props, makeup, costumes and publicity. Students will be involved in many performance projects each grading period and written and visual projects throughout the year. Students are required to purchase a specific list of supplies totaling approximately \$35.

### **Intermediate Theatre Arts I - (1 credit)**

**9th – 12th grade**

#### **Prerequisite: Middle School Theatre and teacher recommendation**

Intermediate Theatre Arts I may be substituted for Theatre Arts I. It is an intensive course in acting styles, stage composition, voice and diction, script analysis, theatre history, and technical theatre designed to challenge the student having 2-3 years of middle school theatre arts credit. Students will be involved in many performance projects each grading period and written and involved visual projects throughout the year. Application forms are available through the counselor's office and the high school and middle school theatre arts teachers.

### **Theatre Arts II - (1 credit)**

**10th - 12th grade**

#### **Prerequisite: Theatre Arts I and teacher recommendation**

Theatre Arts II is a continuation of Theatre Arts I with special emphasis on advanced acting styles and techniques and critical analysis of scripts and characters. Students will also continue their study of improvisation as it enhances character analysis,

pantomime, mime, voice and diction, audition techniques and production techniques.

**Theatre Arts III - IV - (1 credit)**

**11th – 12th grade**

**Prerequisite: Theatre Arts II and teacher recommendation**

Areas of study in Theatre Arts III and IV rotate each year so that all are covered by end of the 4-year and include such as contemporary and classical acting styles and techniques, exploration and analysis of representative plays from each period of history, history of film, puppetry, dance and masked theatre, playwriting and other specialize production techniques. All students will be involved in many performances, written and visual projects throughout the year. This class is designed for the student who wishes to seriously study and apply the theory of acting. Primarily students enrolled in this class are the same ones who comprise a large percentage of the acting companies of the departmental productions.

**Technical Theatre I - (1 credit)**

**9th – 12th grade**

Technical Theatre I general areas of study include, but are not exclusive to the following: principles of costume, make-up, scenery, lighting and sound design and application, and general stagecraft skills. Additional areas explored are history of the theatre and careers in the theatre. Students will be involved in many design projects in each grading period and written projects and tests throughout the year. Students in Technical Theatre I are also required to attend all campus theatre productions and complete 10 lab hours in the first semester, outside of the school day. Students are required to purchase a specific list of supplies.

**Intermediate Technical Theatre I - (1 credit)**

**9th – 12th grade**

**Prerequisite: MS Theatre Arts and teacher recommendation**

Intermediate Technical Theatre I may be substituted for Technical Theatre Arts I. It is an intensive course in theatrical design and application, stage management, stagecraft, technical script analysis, and theatre history designed to challenge the students having 2-3 years of middle school theatre arts credit. Students will be involved in many design projects in each grading period, and written projects and tests throughout the year. Students in Intermediate Technical Theatre I are required to attend all campus theatre productions and complete 12 lab hours in the first semester, outside of the school day. Students are required to purchase a specific list of supplies. Application forms are available through the counselor's office and the high school and middle school theatre arts teachers.

**Technical Theatre II - (1 credit)**

**10th - 12th grade**

**Prerequisite: Technical Theatre I and teacher recommendation**

Technical Theatre II is a continuation of Technical Theatre I with special emphasis on advanced theatre design, moderate to advanced stage craft skills, and stage management. Students will also continue their study of script analysis and begin working on period styles and architecture of specific time periods. Students will begin creating a portfolio of their design work. Students in Technical Theatre II are required to attend all campus theatre productions and complete 15 lab hours in the first semester, outside of the school day. Students are required to purchase a specific list of supplies.

## **Technical Theatre III-IV - (1 credit)**

**11th - 12th grade**

**Prerequisite: Technical Theatre II and teacher recommendation**

Areas of study in Technical Theatre III-IV include advanced stagecraft and design implementation. Emphasis will be placed on lab work, creation of technical theatre portfolio, leadership skills and exploration and analysis of play styles and history of architecture and costuming. All students will be involved in many projects, both written and visual, throughout the year. This class is designed for the student who wishes to seriously study and apply the theory of stage design. Primarily students enrolled in this class are the same ones who comprise a large percentage of the technical crews of the departmental productions. Students in Technical Theatre III-IV are required to attend all campus theatre productions and complete 20 lab hours in the first semester, outside of the school day. Students are required to purchase a specific list of supplies.

## **Theatre Production I-IV - (1 credit)**

**10th - 12th grade**

**Prerequisite: Theatre 1 or Technical Theatre I, Audition**

A full year course for advanced theatre students that explores various production aspects of the art of Theatre. This class is largely project based and may require production hours outside of class as a component of the student's grade. The specifics of this course vary from campus to campus, so please see your school's theatre director for more information.

## **Dance**

### **Dance I – Fundamentals - (1 credit)**

**9th – 12th grade**

**Prerequisite: None**

Dance Fundamentals is a yearlong course offered for fine arts credit. Students participate actively in the learning of fundamental dance skills. Various disciplines of dance are explored including jazz, ballet/lyrical and modern dance. Students engage in the training of basic dance skills, choreographic projects, video studies and dance history. This class is for the student with no prior dance training. This course involves both anaerobic and aerobic activity. *The students are required to wear appropriate and approved dance attire and dance shoes. Purchase of dance attire is the responsibility of the student.* Students may earn a fine arts credit and P.E. substitution credit for enrollment in this course. UIL athletes may not take this course, due to UIL regulations.

### **Dance II – Technique - (1 credit)**

**10th – 12th grade**

**Prerequisite: Dance I**

Students in Dance Technique will earn fine arts credit and for this yearlong course. Various disciplines of dance are explored including jazz, ballet/lyrical and modern dance with the focus on the technical mastery of basic to intermediate skills. Students engage in choreographic projects, video studies and dance history. This course involves both anaerobic and aerobic activity. The students are required to wear appropriate dance attire and dance shoes. *Purchase of dance attire is the responsibility of the student.*



**Dance III – Intermediate - (1 credit)****10th – 12th grade****Prerequisite: Dance II and Instructor Approval**

Students in Intermediate Dance will earn fine arts credit for this yearlong course. Various disciplines of dance are explored including jazz/hip-hop, ballet/lyrical and modern/stylized dance with the focus on *the technical mastery and performance of intermediate to semi-advanced skills*. Students engage in intense choreographic projects, video studies and dance history. This class is for the student with adequate formal training. This course involves both anaerobic and aerobic activity. The students are required to wear appropriate dance attire and dance shoes. *Purchase of dance attire is the responsibility of the student.*

**Dance IV - Advanced - (1 credit)****12th grade****Prerequisite: Dance III and Instructor Approval**

Students in Advanced Dance will earn fine arts credit and for this yearlong course. Various disciplines of dance are explored including jazz/hip-hop, ballet/lyrical and modern/stylized dance with the focus on *the technical mastery and performance of advanced skills*. Students engage in intense choreographic projects, video studies, dance history and peer instruction. This class is for the student with highly developed dance skills. This course involves both anaerobic and aerobic activity. The students are required to wear appropriate dance attire and dance shoes. *Purchase of dance attire is the responsibility of the student.*

**Dance Team Training - (1 credit)****9th - 11th grade****Prerequisite: None**

Students in Dance Team Training will earn fine arts credit for this yearlong course. This course prepares the student to audition for Dance Team. Students will work on flexibility, muscular strength and endurance and technical skills training through precision and stylized dance. This course involves both anaerobic and aerobic activity. The students are required to wear appropriate dance attire and dance shoes. Students will perform in the Spring Dance Concert. Students may earn a fine arts credit and P.E. substitution credit for this course. . Students may earn a fine arts credit and PE substitution credit for enrollment in this course.

**Performing Dance Team - (1 credit)****9th - 11th grade****Prerequisite: Audition Tryouts by Judges**

Dance Team - To enroll in this class, the student must have been selected a member of the team during spring try-outs. Students will earn fine arts credit for this year long class. During the fall semester students will work on flexibility, anaerobic and aerobic activity, muscular strength and endurance, and technical skills training through precision dance in preparation for football halftime performances, pep rallies and special performances. During the spring semester, students will focus on dance as an art, exploring movement in various forms of dance and preparing for competition and show performances. *Many practice hours in addition to the school day are required for membership. (Students will incur some expenses for uniforms, supplies, etc.)* Students may earn a fine arts credit and P.E. substitution credit for enrollment in this course.

**Color Guard (1 credit)**

**9th – 12th grade**

**Prerequisite: Audition and Teacher**

**Recommendation**

Color Guard is a rigorous, full year course concentrating on the continued development of fundamental marching rifle and flag skills. This is a performance class where the basics of movement, dance and use of equipment are taught. The rehearsal and performance schedules are demanding, including outside-of-school practices, football games, contests, performances.

Students may earn a fine arts credit and PE substitution credit for enrollment in this course. Additional expenses for uniforms and supplies will be incurred. Students enrolling in Color Guard are required to participate in conjunction with the marching band. A balanced focus on both individual and group development occurs throughout both semesters.

# World Languages

## **Spanish I - (1 credit)**

**9th – 12th grade**

**Prerequisite: none**

Students in Spanish I will be able to express meaning in simple contexts and understand sentence-length information. Students may be generally understood by people accustomed to dealing with language learners. Students will acquire and discover the target language through speaking, listening, reading, and writing activities. This course will lay the framework for continuing in the target language and will introduce students to the target language cultures. *The majority of this course is conducted in the target language.*

## **Spanish II - (1 credit)**

**9th – 12th grade**

**Prerequisite: Spanish I**

Students in Spanish II will be able to express meaning in straightforward and personal contexts and understand information from simple connected statements. Students are generally understood by people accustomed to dealing with language learners. Students will continue to acquire and discover the target language through speaking, listening, reading, and writing activities. This course allows the students to begin communicating in a target language environment. *The majority of this course is conducted in the target language.*

## **Spanish II Pre-AP - (1 credit)**

**9th – 12th grade**

**Prerequisite: Spanish I**

Spanish II Pre-AP deepens and advances the curriculum of Spanish II. Students will be able to express meaning in straightforward and personal contexts and understand information from simple connected statements. Students are generally understood by people accustomed to dealing with language learners. Students will continue to acquire and discover the target language through speaking, listening, reading, and writing activities.

This course allows the students to begin communicating in a target language environment. *The majority of this course is conducted in the target language.*

## **Spanish III – (1 credit)**

**10th – 12th grade**

**Prerequisite: Spanish II**

Students in Spanish III will be able to express meaning in a variety of contexts and understand information from connected statements. Students are generally understood by people accustomed to dealing with language learners. Students will continue to acquire and discover the target language through speaking, listening, reading, and writing activities. This course allows the students to communicate in a target language environment at an intermediate level. *The teachers and the students will interact primarily in the target language.*

## **Spanish III Pre-AP – (1 credit)**

**10th – 12th grade**

**Prerequisite: Spanish II (highly recommend Spanish II Pre-AP)**

Spanish III Pre-AP prepares students to take Spanish IV AP. This course focuses on delivery of content through thematic units while expanding on relevant vocabulary and refining the accuracy of expression by knowing the components of language. This course begins to incorporate the 6 AP themes within the units of study and makes connections between the themes and real-world applications. The focus of this course is developing intermediate-mid proficiency. *This course is held in the target language.*

**Spanish IV AP – (1 credit)****10th – 12th grade****Prerequisite: Spanish III (highly recommend****Spanish III Pre-AP)**

Spanish IV AP is designed to provide high school students with a learning experience equivalent to that of an upper-intermediate college course. Students will learn language structures in context and use them to convey meaning as well as explore Spanish culture in both contemporary and historical contexts. Students will be expected to demonstrate their knowledge of the target culture, incorporate interdisciplinary topics, make cultural comparisons, and actively communicate in a variety of settings and contexts. This course is held in the target language. Students are highly encouraged to take the Spanish Language and Culture Advanced Placement Exam for possible college credit at the conclusion of this course.

**Spanish V AP – (1 credit)****11th – 12th grade****Prerequisite: Level IV AP**

Spanish V AP is designed to provide high school students with a learning experience equivalent to that of an introductory college course in literature written in Spanish. The course introduces students to the formal study of texts from Peninsular Spanish, Latin American, and U.S. Hispanic literature. Students will demonstrate proficiency in Spanish across the three modes of communication (interpersonal, interpretive, and presentational) with special attention to critical reading and analytical writing. This course is held in the target language. Students are highly encouraged to take the Spanish Literature and Culture Advanced Placement Exam for possible college credit at the conclusion of this course.

**Spanish for Spanish Speakers – (1 credit)****9th – 12th grade****Prerequisite: Oral proficiency skills/Teacher recommendation**

Spanish for Spanish speakers is designed for students who already demonstrate oral proficiency in their native language and need to focus on

improving literacy skills in reading or writing. Students will continue their study of complex grammatical structures and Hispanic culture world-wide. Opportunities to promote cultural pride and awareness for themselves and their peers through a variety of projects will be provided. Students will be able to move to an appropriate level of Spanish III the following year and continue to advanced levels of language study if they wish. This course is equivalent to Spanish II credit. Students may take a CBE for Spanish I credit.

**French I - (1 credit)****9th – 12th grade****Prerequisite: none**

Students in French I will be able to express meaning in simple contexts and understand sentence-length information. Students may be generally understood by people accustomed to dealing with language learners. Students will acquire and discover the target language through speaking, listening, reading, and writing activities. This course will lay the framework for continuing in the target language and will introduce students to the target language cultures. *The majority of this course is conducted in the target language.*

**French II - (1 credit)****9th – 12th grade****Prerequisite: French I**

Students in French II will be able to express meaning in straightforward and personal contexts and understand information from simple connected statements. Students are generally understood by people accustomed to dealing with language learners. Students will continue to acquire and discover the target language through speaking, listening, reading, and writing activities. This course allows the students to begin communicating in a target language environment. *The majority of this course is conducted in the target language.*

**French II Pre-AP - (1 credit)****9th – 12th grade****Prerequisite: French I**

French II Pre-AP deepens and advances the curriculum of French II. Students will be able to express meaning in straightforward and personal contexts and understand information from simple connected statements. Students are generally understood by people accustomed to dealing with language learners. Students will continue to acquire and discover the target language through speaking, listening, reading, and writing activities. This course allows the students to begin communicating in a target language environment. *The majority of this course is conducted in the target language.*

**French III – (1 credit)****9th – 12th grade****Prerequisite: French II**

Students in French III will be able to express meaning in a variety of contexts and understand information from connected statements. Students are generally understood by people accustomed to dealing with language learners. Students will continue to acquire and discover the target language through speaking, listening, reading, and writing activities. This course allows the students to communicate in a target language environment at an intermediate level. *The teacher and the students will interact primarily in the target language.*

**French III Pre-AP – (1 credit)****9th – 12th grade****Prerequisite: French II**

French III Pre-AP prepares students to take French IV AP. This course focuses on delivery of content through thematic units while expanding on relevant vocabulary and refining the accuracy of expression by knowing the components of language. This course begins to incorporate the 6 AP themes within the units of study and makes connections between the themes and real-world applications. The focus of this course is developing intermediate-mid proficiency. This course is held in the target language.

**French IV AP – (1 credit)****10th – 12th grade****Prerequisite: French III**

French IV AP is designed to provide high school students with a learning experience equivalent to that of an introductory college course. Students will learn language structures in context and use them to convey meaning as well as explore French culture in both contemporary and historical contexts. Students will be expected to demonstrate their knowledge of the target culture, incorporate interdisciplinary topics, make cultural comparisons, and actively communicate in a variety of settings and contexts. This course is held in the target language. Students are highly encouraged to take the French Language and Culture Advanced Placement Exam for possible college credit at the conclusion of this course.

**Chinese I - (1 credit)****9th – 12th grade****Prerequisite: none**

Chinese I is offered in an on-line format during the school day. Students will build a basic foundation of reading, listening, speaking, and writing in modern standard Mandarin Chinese. Students will be able to communicate within a variety of everyday contexts. Students will have the opportunity to interact with the Chinese culture through written dialogues and reading passages. *The majority of this course is conducted in the target language.* This course will be held at each campus. The offering of this course is subject to confirmed student enrollment

**Chinese II - (1 credit)****9th – 12th grade****Prerequisite: Chinese I**

Chinese II is offered in an on-line format during the school day. Students will continue to build a basic foundation of reading, listening, speaking, and writing in modern standard Mandarin Chinese with an increased introduction of Chinese characters. Students will be able to communicate within a variety of everyday contexts as well as interact with the Chinese culture through an increased demand for textual literacy. *The majority of this course is conducted in the target language.* This course will be held at each campus. The offering of this course is subject to confirmed student enrollment.

**Chinese III Pre-AP - (1 credit)****9th – 12th grade****Prerequisite: Chinese II**

Chinese III Pre-AP is offered in an on-line format during the school day. Students will further build upon the foundation of reading, listening, speaking, and writing in modern standard Mandarin Chinese. Class time is dedicated to increased focus on literacy in Chinese characters through authentic texts and exercises that promote proficiency in Chinese. *The teacher and the students will interact in the target language.* This course will be held at each campus. The offering of this course is subject to confirmed student enrollment.

**Chinese IV AP - (1 credit)****10th – 12th grade****Prerequisite: Chinese III**

Chinese IV AP is offered in an on-line format during the school day. Chinese IV AP is designed to provide high school students with a learning experience equivalent to that of an introductory college course. Students will learn language structures in context and use them to convey meaning as well as explore Chinese culture in both contemporary and historical contexts. Students

will be expected to demonstrate their knowledge of the target culture, incorporate interdisciplinary topics, make cultural comparisons, and actively communicate in a variety of settings and contexts. *This course is held in the target language.* Students are highly encouraged to take the Chinese Language and Culture Advanced Placement Exam for possible college credit at the conclusion of this course. This course will be held at each campus. The offering of this course is subject to confirmed student enrollment.

**American Sign Language I - (1 credit)****9th – 12th grade****Prerequisites: none**

ASL I introduces students to the language and culture of the Deaf. In this course, students will build their receptive and expressive communicative foundation. The focus of this course is developing a novice-mid proficiency. *This course is conducted in ASL (without voice) a significant amount of time. Due to a shortage of qualified teachers in this area, enrollment will be limited and this course may not be available at every campus.*

**American Sign Language II - (1 credit)****10th – 12th grade****Prerequisites: ASL I**

ASL II continues to introduce the language and culture of the Deaf. In this course, students continue to develop their expressive and receptive communicative abilities. Students will gain a deeper appreciation and understanding of American Deaf Culture. The focus of this course is developing a novice-high proficiency. *This course is conducted in ASL (without voice) a significant amount of time. Due to a shortage of qualified teachers in this area, enrollment will be limited and this course may not be available at every campus.*

# Health and Physical Education Courses

## Physical Education Requirements

- Uniforms may be required.
- Credit may not be earned for a PE course more than once and no more than four substitutions may be earned through any combination of allowable substitutions.
- See your counselor for more detailed information on courses that qualify for PE credit

The substitution activities of athletics, drill team, cheerleading, marching band, and color guard\* may be awarded one P.E. credit toward graduation that may satisfy the physical education credit requirement. (\*through participation in the extracurricular activity of marching band)

## Foundations of Personal Fitness - (1/2-1 credit)

### 9th - 12th grade

#### Prerequisite: None

This course motivates students to strive for lifetime personal fitness with an emphasis on the health-related components of physical education. The knowledge and skills taught in this course include teaching students about the process of becoming fit as well as achieving some degree of fitness within the class.

## Aerobic Fitness I and II - (1/2 - 1 credit)

### 9th - 12th grade

#### Prerequisite: None

Students in Aerobic Fitness are exposed to a variety of activities that promote health-related fitness. A major expectation of this course is for the student to design a personal fitness program that uses aerobic activities as a foundation.

## Individual Sports/Team Sports I and II - (1/2 - 1 credit)

### 9th - 12th grade

#### Prerequisite: None

Students in Individual Sports are exposed to a wide range of individual sports that can be pursued for a lifetime. The continued development

of health-related fitness and the selection of individual sport activities that are enjoyable are a major objective of this course. Students in Team Sports develop health-related fitness and an appreciation for team work and fair play. A major objective of this course is incorporating physical activity into a lifestyle beyond high school.

## Weight Lifting Conditioning I and II- (1/2 - 1 credit)

### 9th - 12th grade

#### Prerequisite: None

This course is designed to give students the opportunity to learn weight training concepts and techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive weight training and cardiorespiratory endurance activities. Students will learn the basic fundamentals of weight training, strength training, aerobic training, and overall fitness training and conditioning.

## Partner's PE - (1/2-1 credit)

### 10th - 12th grade

#### Prerequisite: Application

Partner's PE can substitute for one of the other PE classes. Students are paired with physically challenged students in a physical education class and serve as helpers and mentors to their partner. An application is required.

## Student Athletic Trainer - (1 credit)

### 9th - 12th grade

#### Prerequisite: Student Athletic Trainer Application

Student athletic training is a full year class that involves hands-on experience on the field and in the athletic training room. This class is designed for students interested in fields such as athletic training, physical therapy, or medicine. This class will involve practice and game coverage, first aid and emergency care, and team travel. An application is required. In addition, all student athletic trainers must complete one year of the sports medicine class.

**Sports Medicine - (1 credit)****10th - 12th grade****Prerequisite: Class Application**

Sports Medicine is a full year course and is designed for students interested in fields such as athletic training, physical therapy, or medicine. The course includes class work and practical hands-on application in the following areas: prevention, treatment, and rehabilitation of sports injuries, taping and wrapping of injuries, First Aid/CPR, and emergency procedures. The course also offers practical experiences with local sports medicine specialists.

**Adventure/Outdoor Education (1 credit)****9th - 12th grade****Prerequisite: none**

Students enrolled in adventure/outdoor education are expected to develop competency in Adventure/Outdoor Education activities that provide opportunities for enjoyment and challenge. Emphasis is placed upon student selection of activities that also promote a respect for the environment and that can be enjoyed for a lifetime. Adventure/Outdoor Education includes activities such as archery, backpacking, camping, hiking,

fishing, orienteering, hunter education, and boater safety. This course includes field experiences aligned with these recreational pursuits. Knowledge of The National Parks Association, Endangered Species Information, Boating Safety and Hunting Safety are a part of the curriculum. This course will require student fees for the Hunter Education and Boater Certification portions of the courses through TPWD.

**Health Education - (1/2 credit)****9th – 12th grade****Prerequisite: None**

Health Education allows students to develop skills that will make them health literate adults to promote individual, family, and community health. Students gain a deeper understanding of the knowledge and behaviors they use to safeguard their health. Included in the health course is parenting and paternity awareness (p.a.p.a.), which addresses the rights, responsibilities, and realities of parenting.



# Teen Leadership and Academic Decathlon

## **Teen Leadership I - (1/2 credit)**

**9th - 12th grade**

**Prerequisite: None**

This is a one semester, Texas Education Agency approved, state elective for ninth through twelfth graders. Teen Leadership provides a leadership development curriculum designed to provide young people with essential life skills. It is a dynamic experience, which empowers teens to be the leaders of tomorrow through highly interactive activities conducted by a specially trained teacher. The class activities revolve around lessons in: goal setting, developing relationships, public speaking, positive self-concept, principle-centered decision-making, creative problem-solving, listening and affirming skills, actions of personal responsibility and conflict resolution skills.

## **Teen Leadership II - (1/2 credit)**

**10th – 12th grade**

**Prerequisite: Teen Leadership I at the high school level**

**and application**

Teen Leadership II is a highly interactive course that provides continued leadership development. A major focus will be on student-led service-based projects. Students will plan, organize and implement activities that can be done during the regular class time. These projects will be conducted throughout the semester at various organizations within the Frisco community.

Through these service-based activities, students will be able to practice and apply the leadership skills that they have learned. **(Only juniors and seniors may take Teen Leadership I and II during the same school year.)**

## **Academic Decathlon - (1 credit)**

**9th – 12th grade**

**Prerequisite: Application and instructor approval**

This course provides students with in-class preparation for the Academic Decathlon competition. Academic Decathlon is a nationwide competition that occurs in the spring semester. The course provides for a systematic preparation of each student for participation in the ten decathlon events: science, social studies, economics, mathematics, fine arts, language and literature, essay, interview, speech, and Super Quiz. Nine members of the class will be chosen in December to be a part of the competitive team. These nine will consist of three “A-average” students, three “B-average” students and three “C-average” students. The other members will either compete at the Octathlon level (only for freshmen and sophomores), or play a supportive role after that time. The course will be weighted on the 5.5 grade point scale starting with the freshmen class of 2009-10. Students that take this course for three years will earn local credit for the third year. *Students should be aware that the practice and competition schedules are very demanding and include summer practices and after school commitments.*

## **Student Congress - (1 Credit)**

**10th – 12th grade**

**Prerequisite: Application for officers and student council members**

This course provides an opportunity to study, practice, and develop group and individual leadership and organizational skills. These skills include, but are not limited to: decision making, problem solving, communication, leadership roles and civic responsibility. This course takes a hands-on lab oriented approach to leadership training by involving students in participatory leadership through activities and projects. Year one is a state credit and subsequent years are local credits.

# Local Elective Courses

## **Academic Study Advancement Program – (1/2 credit)**

**9th – 11th grade**

### **Prerequisite: Instructor Approval**

The mission of this course is to provide students with the necessary academic skills to help them are successfully transition into the 9th through 12th grades, so they might achieve their academic potential. The course is intended for *all students* and presents them with skills and techniques that can dramatically help them do better in school. This course is not designed or intended solely for low performing or at risk students. The primary goals of this class are: (1) to teach students how to think and use Higher Order Thinking Skills; (2) teach foundation academic study skills that are necessary to become successful, and that so many entering students today seem to be lacking; (3) to help students become more confident and discover that they can achieve beyond their present level.

# Independent Study and Mentorship Program

## **Independent Study and Mentorship Program**

**11th – 12th grade**

**(1 credit)**

### **Prerequisite: Application Process**

Students focus their study on a topic or career of their choice. They develop a research portfolio that has a collection of resources including interviews and observations with people who work in their chosen topic or career field. Students work on original product design and development, research, time management, communication, goal setting for project completion, and presentation skills in this academically rigorous course. Students work with mentors at their place of business to gain “real world” experience. They will work with their mentor to create a product related to their topic. Students give progressively longer speech presentations and will give a formal presentation of their product and mentorship in May. See the counseling office for more information.

# Competitive Sports Information

## FISD offers the following competitive sports:

Football	Boys Basketball
Girls Volleyball	Girls Basketball
Tennis	Boys Soccer
Golf	Girls Soccer
Softball	Baseball
Track	Cross Country
Powerlifting	Wrestling
Swimming & Diving	

**IMPORTANT NOTE:** Students are allowed to sign up for any sport of their choosing. If the sports program has an athletic period, then the student must make the team in order to stay in the class. Athletic tryouts typically take place **during** the first few weeks of each semester. Those students who do not make the team will **need** to have a schedule change. *Underclassmen who do not make the team will likely be transferred to a physical education class. Other students will be given their choice of elective classes **that are still OPEN.***

High School Athletes will pay an annual fee of \$200. This single fee will cover participation in all athletic activities for the duration of the school year.

## TRANSITION COURSES

### **Prerequisite: Committee Recommendation**

These courses are provided to students in order to fulfill the transition requirement for vocational experiences. These classes emphasize pre-vocational skill development, job-related skills and community participation.

### **Occupational Preparation I - 9th – 12th grade**

#### **Prerequisite: Committee Recommendation**

Occupational Preparation I is a transition course designed to provide students with opportunities in career exploration, vocational interest experiences, and integrated career development activities based on post-secondary goals. This course involves career preparatory curriculum, programs, and activities that align with labor market trends and specific job requirements. With the guidance of school and community professionals, students will use a career planning process (i.e., assessments, evaluations, career portfolios, etc.) based on career goals, interests, and abilities.

### **Occupational Preparation II - 10th – 12th grade**

### **Prerequisite: Occupational Prep I / Committee Recommendation**

Occupational Preparation II is a transition course designed to provide students opportunities to organize and select career based experience based on their career interests, goals, and present skills. Students will have multiple opportunities to develop traditional job preparation skills through job-readiness curricula and training. Within the Occupational II Preparation course, students will participate in various on-the-job training experiences, including community service, specifically linked to school credit and/or program content. Students will demonstrate appropriate job-seeking and maintenance skills. Students must secure a minimum of ten hours per week of community based volunteer or paid employment.

### **Vocational Adjustment Course I - 11th – 12th grade (minimum age of 16)**

**Prerequisites: Occupational Preparation I and Occupational Preparation II / Committee Recommendation**

Vocational Adjustment Course I is a transition educational experience that provides students with meaningful school based and community based work experiences based on his/her individualized post-secondary vocational goals. The Vocational Adjustment Course I program targets student's future goal planning and adult world transitions. Students participate in quality work experiences that are offered to them prior to exiting school (i.e., apprenticeships, mentoring, paid and unpaid employment, service learning, school-based enterprises, on-the job training, and internships). Student must maintain a minimum of fifteen hours per week of paid employment.

**Vocational Adjustment Course II - 12th grade (minimum age of 16)**

**Prerequisites: Vocational Adjustment Course / Committee Recommendation**

Vocational Adjustment Course II is an intensive vocational experience that provides preparatory activities that lead to student's acquisition of employability and technical skills, knowledge, and behaviors based on his/her individualized post-secondary vocational goals. Students will practice self-management and responsible decision-making that reflects appropriate work-based choices. Students will demonstrate independent

advocacy, interpersonal, and vocational skills. Youth is independent/interdependent at job site, maintaining appropriate time-management skills, behaviors, and communication skills. Students must secure a minimum of fifteen hours per week of competitive paid employment.

**Step Beyond**

**Prerequisites: High School graduation credits complete / Committee Recommendation**

The Step Beyond (18+) Program provides specific hours of support, individually determined, resulting in the student attaining employment, developing personal care and safety skills, volunteering, and accessing community resources. Instructional activities are developed based on person-centered planning and reflect transitional outcomes leading to the student's individualized post-secondary goals in the areas of education and training, independent living, and vocational skills. Student instruction is engaged within a variety of environments, including community based recreation and leisure, work sites, public transportation, and adult learning institutes. Instruction emphasizes skills supporting communication, socialization, personal management, vocational, personal care, safety, self-advocacy, interpersonal, and self-help which ultimately lead to independent adult life skills and employment.

# Career & Technical Education Course Offerings

## PROGRAMS OF STUDY IN CTE



**Agriculture,  
Food &  
Natural  
Resources**

### **Animal Science**

Survey of Agriculture, Food & Natural Resources (9-12)  
Wildlife, Fisheries & Ecology Management (9-12)  
Equine Science (10-12)  
Livestock Production (10-12)  
Small Animal Management (10-12)  
Veterinary Medical Applications (11-12)  
Advanced Animal Science (12)  
Practicum In Veterinary Medical Applications (12)

### **Floral Design/or Landscape**

Floral Design (10-12)  
Horticulture Science (10-12)  
Landscape Design & Management (10-12)  
Advanced Floral Design(11-12)  
Greenhouse Operation & Production (11-12)  
Advanced Plant & Soil Science (11-12)

### **Agriculture Mechanics**

Ag Mechanics & Metal Technologies (9-12)  
Ag Structures Design & Fabrication (10-12)  
Ag Equipment Design & Fabrication (10-12)  
Introduction to Welding (11-12)  
Practicum in Ag Structures & Equipment (12)



**Architecture &  
Construction**

Architecture & Construction I (9-12)  
Architecture & Construction II (10-12)  
Architectural Design I (11-12)  
Architectural Design II (12)  
Interior Design I (10-12)  
Interior Design II (12)



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

### **Professional Communications (9-12)**

#### **Animation**

3D Modeling & Animation (9-12)  
Web Technologies (10-12)  
Animation I (10-12)  
Animation II (11-12)  
Practicum in Animation (12)

#### **Audio & Video Production**

Audio/Video Production I (11-12)  
Audio/Video Production II (12)  
Sports Broadcasting I  
Sports Broadcasting II

#### **Graphic Design & Illustration**

Digital Media (9-12)  
Web Technologies (10-12)  
Graphic Design & Illustration I (10-12)  
Graphic Design & Illustration II (11-12)  
Practicum In Graphic Design & Illustration (12)

#### **Fashion Design**

Fashion Design I (10-12)  
Fashion Design II (11-12)



**Business  
Management &  
Administration**

Survey of Business, Management & Finance (9-12)  
Touch System Data Entry (9-12)  
Business Management I (9-12)  
Business Management II (9-12)  
Business Law (10-12)  
Global Business (11-12)



**Education & Training**

Survey of Education & Training (9-12)  
Education and Training (11-12)  
Practicum in Education and Training (12)  
Child Guidance (11-12)  
Practicum in Child Guidance (12)



**Health Science**

Medical Terminology (9-12)  
Anatomy & Physiology (10-12)  
Health Science (10-12)  
Health Science Clinical A&B (11-12)  
Microbiology (11-12)  
Pathophysiology (11-12)  
Pharmacology (12)  
Electrocardiography (12)  
Emergency Medical Technician (12)



**Finance**

Banking & Financial Services (10-12)  
Dollars & Sense (10-12)  
Money Matters (11-12)  
Accounting I (10-12)  
Accounting II (11-12)  
Securities & Investment (12)



**Hospitality & Tourism**

Survey of Hospitality & Tourism (9-12)  
Hotel Management (10-12)  
Travel & Tourism Management (10-12)  
Hospitality Services (11-12)  
Practicum in Hospitality Services (12)  
Intro to Culinary Arts (10-12)  
Culinary Arts (11-12)  
Advanced Culinary Arts (12)  
Fundamentals of Baking & Pastry (12)  
Food Science (12)



**Government & Public Administration**

Survey of Government & Public Administration (9-12)  
Court Systems & Practice (10-12)  
Political Science (10-12)  
Mock Trial (11-12)  
Foreign Services & Diplomacy (11-12)  
Practicum in Government (12)



**Human Services**

Interpersonal Studies (9-12)  
Child Development (10-12)



**Information  
Technology**

- Computer Maintenance (9-12)
- Digital Media (9-12)
- Networking (10-12)
- Internetworking I (11-12)
- Internetworking II (12)
- Fundamentals of Informational Security (12)
- Operating Systems Security (12)



**Marketing**

- Survey of Business, Marketing & Finance (9-12)
- Social Media Marketing (9-12)
- Advertising (9-12)
- Sports & Entertainment Marketing (10-12)
- Entrepreneurship (10-12)
- Fashion Marketing (9-12)
- Sports Management (12)
- Practicum in Marketing I (11-12)
- Practicum in Marketing II (12)



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

- Survey of Law, Public Safety, Corrections & Security (9-12)
- Law Enforcement I (10-12)
- Law Enforcement II (11-12)
- Forensic Science (12)



**Science,  
Technology,  
Engineering &  
Mathematics**

- Introduction to Engineering Design (9-12)
- Principles of Engineering Design (10-12)
- Civil Engineering and Architecture (10-12)
- Digital Electronics (11-12)
- Aerospace Engineering (11-12)
- Engineering Design & Development (12)



**Manufacturing**

- Introduction to Welding (11-12)



**Transportation,  
Distribution  
& Logistics**

- Foundational Concepts of Aviation (11)
- Aircraft Systems for Pilots (11)
- Flight Science I (12)
- Aircraft Powerplant for Pilots (12)

## **Agriculture, Food & Natural Sciences**

### **Animal Science**

#### **Survey of Agriculture, Food, and Natural Resources - (1 credit)**

**9th –10th grade Prerequisite: None**

To prepare for success, students need to have opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings in which this course specifically targets the four main sectors of agriculture; animal sciences, horticulture sciences, agriculture mechanics, and civic leadership. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, and best practices used in a variety of agricultural fields. Students will also have the option to join the FFA organization where they will develop leadership and communication skills as well as the opportunity to participate in the animal industry through livestock showing or career development events.

#### **Wildlife, Fisheries, & Ecology Management - (1 credit)**

**9th –10th grade**

**Prerequisite: None**

This course examines the management of game and nongame wildlife species, fish, aquatic crops and their ecological principles as related to current agricultural practices. During the length of this course, students will examine the importance of wildlife and outdoor recreation while highlighting the use of scientific knowledge to study wildlife and natural resources. Also included in the course are sections covering boater education, angler education, and hunter education. Students are provided the opportunity to develop leadership skills through the FFA organization in events targeted to the interests of wildlife students. This course provides instruction and training necessary for the Texas Hunter Education and Boater Education Certifications.

### **Small Animal Management - (1/2 credit)**

**10th –12th grade**

**Prerequisite: None**

This course is designed to develop knowledge and skills pertaining to the ownership, selection, reproduction, nutritional requirements, health and management, and breed identification of a variety of small animals common to the pet industry. This is a laboratory-oriented course that gives students hands-on experience in working with a variety of small animals that may include, but are not limited to dogs, cats, Guinea pigs, rabbits, other small mammals, as well as birds, reptiles and amphibians. It is highly recommended that students interested in the Veterinary Medical Applications program take Small Animal Management. Students may also capitalize on the opportunity to join the FFA organization. Small Animal Management will fulfill one of the prerequisites set for Veterinary Medical Applications.

### **Livestock Production - (1 credit)**

**10th - 12th grade**

**Prerequisite: None**

This course provides knowledge and skills related to animal systems, career opportunities, and industry expectations in livestock production. It provides the student with the opportunity to learn technical skills relating to the scientific and technological aspects of animal systems, anatomy and physiology, nutrition, reproduction, genetics, pests and diseases, business management and operation skills. Animal species to be addressed in this course may include, but are not limited to, beef cattle, dairy cattle, sheep, goats, poultry and exotics. Students will have the opportunity to improve their leadership skills through the FFA organization. Livestock Production will count toward fulfilling prerequisites set for Veterinary Medical Applications.



**Equine Science - (1/2 credit)****10th - 12th grade****Prerequisite: None**

This course is designed to introduce students to the many aspects of the horse industry. Students will learn the basics of horse care, breed standards, equine nutrition, accepted management practices, reproduction, equestrian events, and common training theories and techniques.

Students will further develop their knowledge of careers in the equestrian field. Students will have the opportunity to improve their leadership skills through the FFA organization. Equine Science will count toward fulfilling prerequisites set for Veterinary Medical Applications.

**Veterinary Medical Applications - (1 credit)****(CTEC)****11th –12th grade****Prerequisite: 2 of 4 courses-Survey of Agriculture, Food, and Natural Resources, Equine Science, Livestock Production or Small Animal Management**

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. Topics covered in this course include, but are not limited to, veterinary practices as they relate to both large and small animal species. Students may also capitalize on the opportunity to join the FFA organization with events specifically tailored to students with an interest in Veterinary Medicine.

**Practicum in Veterinary Medical Applications - (2 credits) (CTEC), 12<sup>th</sup> grade****Prerequisite: Veterinary Medical Applications, Program Qualification Form Required**

The practicum course is a double blocked, unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Veterinarian Medical area of the Agriculture, Food, and Natural Resources cluster. Required prerequisite is Veterinary Medical Applications (Level 1). The practicum is designed to give students supervised practical application of knowledge and skills in the Veterinarian Medical Field. Practicum experiences occur in a Veterinarian Clinic under the supervision of a Licensed Veterinarian and their staff. To be prepared for careers in the Veterinary field, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics and science. After completion of this course, students will be able to take the Texas Veterinary Medical Association level 1 Certified Veterinarian Assistant test and become certified. Students must provide their own transportation to and from off-campus site.

**Advanced Animal Science - (1 credit)****12th grade****Prerequisite: 2 of 4 courses - Equine Science, Livestock Production, Small Animal Management, or Wildlife, Fisheries & Ecology Management**

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course 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. This course may qualify as a science credit.

## **Floral Design/or Landscape**

### **Floral Design - (1 credit)**

**10th - 12th grade**

**Prerequisite: None**

This is an activity-based course structured to prepare students in the production of specialized floral designs, identify and classify plants and flowers, and use artistic elements of design to create personal floral arrangements. Students will develop knowledge and skills that enable them to understand the business practices used in the floral design industry as well as providing the opportunity for students to expand their leadership skills in the FFA organization. A materials fee is required for this course and successful completion of both semesters of this course may fulfill the fine arts credit required for graduation. This course provides the necessary training and instruction for students to participate in testing for the Texas State Florist's Certification. Materials fee may be required for this course. This course may count as a Fine Arts credit.

### **Horticultural Science - (1 credit)**

**(CTEC)**

**10th - 12th grade**

**Prerequisite: None**

To be prepared for careers in horticultural systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to horticulture and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings. This course is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production. Materials fee may be required for this course.

### **Landscape Design & Management - (1/2 credit)**

**(CTEC)**

**10th - 12th grade**

**Prerequisite: None**

To be prepared for careers in horticultural systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings. This course is designed to develop an understanding of landscape and turf grass management techniques and practices.

### **Advanced Floral Design - (1 credit)**

**(CTEC)**

**11th - 12th grade**

**Prerequisite: Floral Design**

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources cluster. The practicum 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. To be prepared for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. Students should apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources. To prepare for success, students are afforded opportunities to reinforce, apply, and transfer their knowledge and skills related to mathematics in a variety of contexts. Materials fee may be required for this course.

**Greenhouse Operation & Production - (1 credit)**  
**(CTEC)**

**11th - 12th grade**

**Prerequisite: Horticultural Science or Landscape Design & Management**

This class exposes students to practical application of growing plants in a controlled space for profit. We will learn industry standards and expectations of nursery and greenhouse growers. This course will prepare students to be successful in the horticulture, landscape, and nursery career fields, plant identification, growth, harvest and care, as well as greenhouse maintenance and manipulation will be the main focus of our curriculum.

**Advanced Plant and Soil Science - (1 credit)**  
**(CTEC)**

**12th grade**

**Prerequisite: Horticultural Science or Landscape Design & Management**

This course 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.

Investigations, laboratory practices, and field exercises will be used to develop an understanding of current plant and soil science. This course is designed to prepare students for careers in the food and fiber industry. Students will learn, reinforce, apply, and transfer their knowledge in a scientific setting. Materials fee may be required for this course. This course may qualify as a science credit.

**Advanced Floral Design - (1 credit)**  
**(CTEC)**

**11th - 12th grade**

**Prerequisite: Floral Design**

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources cluster. The practicum 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. To be prepared for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. Students should apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources. To prepare for success, students are afforded opportunities to reinforce, apply, and transfer their knowledge and skills related to mathematics in a variety of contexts. Materials fee may be required for this course.

**Ag Mechanics**

**Agricultural Mechanics & Metal Technologies - (1 credit)**

**9th - 12th grade**

**Prerequisite: None**

To be prepared for careers in agricultural power, structural, and technical systems, students need to attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. This course 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. This class does not involve automotive. Materials fee may be required for this course.

**Agricultural Structures Design & Fabrication - (1 credit)**

**10th - 12th grade**

**Prerequisite: Agricultural Mechanics & Metal Technologies**

To be prepared for careers in mechanized agriculture and technical systems, students attain knowledge and skills related to agricultural facilities design and fabrication. Students explore career opportunities, entry requirements, and industry expectations. To prepare for success, students reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings. Materials fee may be required for this course.

**Agricultural Equipment Design & Fabrication - (1 credit)**

**(CTEC)**

**11th - 12th grade**

**Prerequisite: Agricultural Structures Design and Fabrication**

This Career and Technical course will give the student hands on opportunities to repair and maintain internal combustion engines, electrical, and hydraulic systems. Scientific, mathematical, economic, and technical principles are reinforced in this course, as are communication and critical thinking skills. Supervised agricultural experience SAE programs and FFA leadership activities are integral components of the course and provide many opportunities for practical application of instructional competencies. Materials fee may be required for this course.

**Introduction to Welding - (1 credit)**

**(CTEC)**

**11th - 12th grade**

**Prerequisite: Agricultural Structures**

This Career and Technical course is for students interested in welding as a career. Training for employment with entry-level skills in welding trades will be emphasized. Oxy-fuel welding and cutting, plasma arc cutting, shielded metal arc welding, gas metal arc welding, flux cored arc welding, and gas tungsten arc welding will be

covered. Hand and power tools, welding on various types of metals, reading blueprint welding symbols, metal characteristics, and equipment setup are other areas that students master. Safety, leadership, entrepreneurship, and career opportunities are included. Materials fee may be required for this course.

**Practicum in Agricultural Structures & Equipment – (2 credits)**

**(CTEC)**

**12th grade**

**Prerequisite: Agricultural Equipment Design & Fabrication or Introduction to Welding**

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources cluster. The practicum 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. To be prepared for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. Students should apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources. To prepare for success, students are afforded opportunities to reinforce, apply, and transfer their knowledge and skills related to mathematics in a variety of contexts. Materials fee may be required for this course.

## Architecture & Construction

### Architecture and Construction I - (1 credit)

(CTEC)

9th –12th grade

**Prerequisite: None**

Architecture and Construction I provides an overview to the various career opportunities in the Building Industry. Students will gain foundational knowledge and skills to move on to Architecture and Construction II. Both digital and traditional forms of technical and non-technical drawing are taught in conjunction with basic design principles. Students will also learn about construction material and methods and how to apply this knowledge in drafting. Architecture and Construction I introduces the students to basic principles of geometry and physics as applied to building construction. Students will be expected to utilize both creative “left-brained” thinking and analytical “right-brained” thinking for creative problem solving projects in this course.

*This course may qualify as a technology applications credit.*

### Architecture and Construction II - (1 credit)

(CTEC)

10th –12th grade

**Prerequisite: Architecture and Construction I**

In Architecture and Construction II, students gain knowledge and skills that will help them on their way to a post-secondary education or career in Architecture and Construction. Students will learn how to develop preliminary concepts into finalized designs through traditional and digital mediums. Architectural design introduces students to state and local building codes, foundational design criteria, and construction techniques for the purpose of both residential and small commercial design while also introducing more theoretical elements such as Architectural history and basic design theory. *Supplies fees required.*

### Architectural Design I - (1 credit)

(CTEC)

11th –12th grade

**Prerequisite: Architecture and Construction II or Architectural Design**

In Architectural Design I, students are exposed to more complex building systems, construction techniques, and technologies. Students undergo daily peer reviews and are critiqued by building industry professionals at the end of each project promoting a collegiate level environment. The course also introduces advanced three dimensional modeling and construction detailing where more responsibility is placed on the student to undergo independent research. Higher level design theory is introduced as a vehicle for all student work. *Supplies fees required.*

### Architectural Design II - (2 credits)

(CTEC)

12th grade

**Prerequisite: Architectural Design I, Program Qualification Form required**

Architectural Design II is the culmination of the students’ prior three years of Architectural learning. Students are given the freedom to conceptualize, research, and design projects of their choosing while also creating weekly goals and deadlines for themselves. Aside from their final projects, students are introduced to the professional environment through internships at Architecture firms, guest speakers, interview techniques, college applications, ethics discussions, and portfolio design. Students are expected to provide transportation for themselves to and from internship sites. *Supplies fees required.*

### **Interior Design I - (1 credit)**

**10th –12th grade**

**Prerequisite: None**

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.

Individuals use knowledge and skills related to interior and exterior environments, basic architecture, construction, and furnishings to make wise consumer decisions, increase productivity, and compete in industry. *Materials fee may be required for this course.*

### **Interior Design II - (2 credits)**

**11th –12th grade**

**Prerequisite: Interior Design I**

Interior Design II is a technical laboratory course that includes the knowledge of the employability characteristics, principles, processes, technologies, communication, tools, equipment, and materials related to interior spatial design.

*Materials fee may be required for this course.*

## **Arts, A/V Technology & Communication**

### **Professional Communications (Speech) – (1/2 credit)**

**9th – 12th grade**

**Prerequisite: None**

Professional Communications (Speech) is designed to build and enhance student communication skills in both a social and professional context. These skills include nonverbal, listening, group communication, presentation, and product development. Students in Professional Communications class will also learn the skills needed to be successful in the business world, such as resume writing, job interviewing protocol, and professional etiquette. Students will also develop an understanding of business structure and the process of product creation and design. This course provides practical application and hands-on experience, which aim to

help students develop the necessary communication skills to be productive, successful, and positive contributors to our global society.

*This course fulfills the speech requirement for graduation.*

### **Animation**

#### **3D Modeling and Animation - (1 credit)**

**9th –12th grade**

**Prerequisite: None**

In this first level course, students will explore the basic principles, concepts and methodologies of 2D and 3D animation. Students will create an original character for use with various projects including, but not limited to, drawings, a clay model, digital art, and many more. This character concept will be incorporated into their projects using the various software applications such as Adobe Photoshop, Autodesk Maya and more. Students will be expected to draw and will learn new drawing techniques. Materials fee may be required for this course. This course may qualify as a fine arts credit. *This course may qualify as a technology applications credit.*

#### **Digital Media - (1 credit)**

**9th –12th grade**

**Prerequisite: None**

Digital Media is a course designed to educate students on the emerging digital world as well as provide hands on experience with industry standard software. The knowledge and skills acquired will enable students to successfully design digital graphics, create basic 2D animations, introductory video and audio projects plus integrate it all together into a digital web portfolio. There is a concentration in printed graphic design as this course serves as prerequisite for Graphic Design and Illustration I. Students are expected to employ planning and time management skills to complete projects. *This course may qualify as a technology applications credit.*

**Web Technologies - (1 credit)****10th –12th grade****Prerequisite: Digital Media, or  
3D Modeling & Animation**

Through the study of web technologies and design, students learn to make informed decisions regarding emerging technology and apply those decisions to the field of information technology. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will acquire the abilities to be able to use digital media to plan, design, build, and maintain effective online communications. This course is project based and students must be self-motivated and willing to put in the time and effort necessary to complete projects.

**Animation I - (2 credits)****(CTEC)****10th –12th grade****Prerequisite: 3D Modeling and Animation, Art  
Recommended**

Animation is a continuation of the material learned in the 3D Modeling and Animation coursework and focuses on Maya, a 3D industry standard advanced software. Students taking this course should have a desire to learn storyboarding, 3D modeling, camera layout, and animation. 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. *Materials fee may be required for this course.*

**Animation II - (2 credits)****(CTEC)****11th –12th grade Prerequisite: Animation I**

Students will utilize skills learned in the prerequisite Animation course to further their knowledge in three dimensional animation techniques. The focus will be on creating several animation shorts over the course of a year. Students will enhance their skills in storyboarding, animating, sketching, digital painting, modeling and rigging to add to their portfolio. Software will include Adobe Flash, Adobe Photoshop, Final Cut Pro, and Autodesk Maya. *Materials fee may be required for this course.*

**Practicum in Animation - (2 credits)****(CTEC)****12th grade****Prerequisite: Animation II**

Students will utilize skills learned in the prerequisite Animation 2 course to further their knowledge in two and three dimensional animation techniques. This advanced level course focuses heavily on sketching and will delve deeper into pre-visualization artwork needed for creating characters, backgrounds, layouts and storyboards as well as creating animated shorts. In addition, students will be working with the video game department to create a capstone project that will utilize three dimensional animations in a video game engine. Software will include Adobe Flash, Adobe Photoshop, and Final Cut Pro. *Materials fee may be required for this course.*

## Audio & Video Production

### Audio/Video Production I - (2 credits) (CTEC)

11th – 12th grade

#### Prerequisite: TV Broadcast II

In an industry standard HDTV studio, students study the role of media as a tool within academic, social, and democratic processes as they influence tastes, behavior, purchasing, and voting decisions. Students will examine the historical development of different mass media and related technologies and personalities. Students will plan, produce, present and evaluate media messages. They will develop ways to improve media and formulate guidelines for using media effectively to achieve governmental, societal, and cultural goals. 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 pre-production, production, and post-production audio and video activities. *Materials fee may be required for this course. Students must provide their own transportation to story assignment locations.*

### Audio/Video Production II - (2 credits) (CTEC)

12th grade

#### Prerequisite: Audio/Video Production I

Students study the role of media as a tool within academic, social, and democratic processes as they influence tastes, behavior, purchasing, and voting decisions. Students will examine the historical development of different mass media and related technologies and personalities. Students will plan, produce, present, and evaluate media messages. They will develop ways to improve media and formulate guidelines for using media effectively to achieve governmental, societal, and cultural goals. 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 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 activities. This course may be implemented in an advanced audio format or an advanced format, including both audio and video. *Materials fee may be required for this course. Students must provide their own transportation to story assignment locations.*

### Sports Broadcasting, I - (2 credits) (CTEC)

10th – 12th grade

#### Prerequisite: TV Broadcast or Teacher Permission

Students enrolled in this course will demonstrate their knowledge gained from TV Broadcast I and use it in a practical sports aspect in which they will produce, shoot, and report LIVE games from The Ford Center, Memorial Stadium, and each High School campus around the district according to the sport in season (i.e. Softball, Baseball, Basketball, Volleyball, etc.). All games and events will be streamed live on the NFHS Network allowing a real-world experience in live broadcasting. Students will also produce packaged stories to show on the FISD channel along with the NFHS Network. Students will serve as crew members on Jumbotron, cameras, replay systems, and live graphics. This course provides hands-on learning opportunities for students and serves as a primer for progression into Sports Broadcast II and eventually the sports broadcasting industry.



## **Sports Broadcasting II - (2 credits)**

**(CTEC)**

**11th – 12th grade**

### **Prerequisite: Sports Broadcasting**

Students will serve as directors and producers on NFHS Network sports broadcasts events. Students enrolled in this course will demonstrate their knowledge gained from Sports Broadcast I and use it in a practical sports aspect in which they will direct, produce, and report LIVE games from The Ford Center, Memorial Stadium, and each High School campus around the district according to the sport in season (i.e. Softball, Baseball, Basketball, Volleyball, etc.). Students will serve as crew on NFHS Network sports broadcasts including but not limited to Play-by-Play, Color Commentary, Sideline Reporting, and Technical Directing. Students will also produce packaged stories to show on the FISD channel along with the NFHS Network. This course provides hands-on learning opportunities for students and serves as a foundation for entry into the sports broadcasting industry.

## **Fashion Design**

### **Fashion Design I - (1 credit)**

**10th – 12th grade**

#### **Prerequisite: None**

This course will address careers in fashion that span all aspects of the textile and apparel industries. Within this context, in addition to developing technical knowledge and skills needed for success, the course prepares individuals to understand the psychological aspects of clothing and textiles, and introduces the student to: basic clothing construction techniques, clothing care and maintenance, design principles, textile information, and clothing consumerism. Additionally, the students will be expected to develop an understanding of fashion and the textile and apparel industries. *Supplies and/or materials fee may be required for this course.*

### **Fashion Design II - (1 credit)**

**11th – 12th grade**

#### **Prerequisite: Fashion Design I**

Careers in fashion span all aspects of the textile and apparel industries. Within this context, 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 fashion, with emphasis on design and production. *Supplies and/or materials fee required for this course.*

## **Graphic Design & Illustration**

### **Graphic Design and Illustration I - (2 credits)**

**(CTEC)**

**10th – 12th grade**

#### **Prerequisite: Digital Media**

In this course students will explore the creation of 2D computer graphics with an emphasis on the visual communication process, basic terminology and principles and elements of design. Industry standard software is utilized for creation of raster and vector based graphics. Through project-based learning, students will develop the knowledge and skills to produce projects such as posters, brochures, flyers and other various graphic design materials. The student is required to apply technical skills for efficiency and is expected to employ planning and time-management skills to complete work task. A basic working knowledge of Adobe Photoshop is required for this course per the prerequisite. Adobe Illustrator is introduced in this course. *Materials fee may be required for this course.*

**Graphic Design & Illustration II – (2 credits)  
(CTEC)**

**11th –12th grade**

**Prerequisite: Graphic Design & Illustration I**

The course expands on Graphic Design & Illustration including advanced skills in image editing and vector graphic software focusing on original creation and design of computer graphics for use as ornamentation, illustration, and advertising. Students are expected to interpret, evaluate and justify design decisions. Instruction is project-based and students will develop advanced technical skills needed for success in visual communication industries. Student designs must show original and inventive ideas while utilizing industry and market trends. Software focus continues in Adobe Photoshop with more focus using Adobe Illustrator. *Materials fee may be required for this course.*

**Practicum in Graphic Design & Illustration - (2 credits)  
(CTEC)**

**12th grade**

**Prerequisite: Graphic Design and Illustration II ,  
Passing Score on the Adobe Certified Associate  
Exam in Visual Communications, Program  
Qualification Form & Portfolio Review Required**

This is the final course in the Graphic Design & Illustration pathway. Students will be expected to demonstrate & deliver a technical understanding of the graphic design industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities (field site). Additional focus will be placed on professional communication strategies and ethical decision making in regard to graphic design careers. Software focus is the Adobe Creative Design Suite – Photoshop, Illustrator and InDesign. *Materials fee may be required for this course. Students must provide their own transportation to and from the off-campus field site. Fingerprint and/or background check may be required based on field site.*

**Business, Management &  
Administration**

**Survey of Business, Marketing and Finance - (1 credit)**

**9th –12th grade**

**Prerequisite: None**

In Survey of Business, Marketing, and Finance, students 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 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 - (1 credit)**

**9th –12th grade**

**Prerequisite: None**

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society. Students apply technical skills to, improve keyboarding proficiency, create word-processing documents, develop spreadsheets, formulate databases, as well as create and animate electronic presentations using Microsoft's Office - software. These skills will assist students in making a successful transition to the postsecondary education and the workforce. *This course may count as a technology applications credit.*

**Business Information Management II - (1 credit)**  
**(CTEC)**

**10th –12th grade**

**Prerequisite: Business Information Management I**

Students apply advanced technical skills to create advanced word-processing documents, develop advanced spreadsheets, formulate advanced databases for use within corporate or small business inventory purposes, as well as create and animate advanced electronic presentations using Microsoft's Office software. Students will have the option to become certified as a Microsoft Office Specialist (*exam fee will apply*).

**Business Law - (1 credit)**

**10th –12th grade**

**Prerequisite: None**

Students analyze the social responsibility of business and industry regarding issues relating to the legal environment, business ethics, torts, contracts, negotiable financial instruments, personal property, sales, warranties, business organizations, concept of agency and employment, and real property. Students apply technical skills to address the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

**Global Business - (1/2 credit)**

**11th –12th grade**

**Prerequisite: None**

Students apply technical skills to address global business in applications of emerging technologies. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment.

**Touch System Data Entry - (1/2 credit)**

**9th –12th grade**

**Prerequisite: None**

Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will need to apply touch system data entry for production of business documents.

## **Education & Training**

**Survey of Education and Training –**  
**(1 credit)**

**9th –12th grade**

**Prerequisite: None**

Do you want to make a difference? What does it take to be an effective and dynamic educator in an ever-changing society? This course will explore opportunities in the educational clusters and provide students with experiences to develop skills needed to be successful within the teaching profession. These experiences would include but are not limited to creating and presenting engaging lesson plans, strategies for classroom management, and provide tools for a teacher to meet the name and need for every student.

**Child Development - (1 credit)**

**10th –12th grade**

**Prerequisite: None**

This technical laboratory course addresses parenting as well as the growth and development of children. Students will explore knowledge and skills related to parenting, relationships, family dynamics, 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. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

**Child Guidance – (2 credits)**

**(CTEC)**

**11th –12th grade Prerequisite: Child Development, Program Qualification Form Required**

This laboratory course addresses the knowledge and skills related to early childhood growth and guidance equipping students to develop positive relationships with children and effective caregiver skills. Students use these skills to promote the well-being and healthy development of children, strengthen a culturally diverse society, and pursue careers related to the care, guidance, and education of children, including those with special needs. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

*Material fees required. A TB test and background check is required.*

**Education and Training - (2 credits) (CTEC)**

**11th –12th grade**

**Prerequisite: Survey of Education & Training, Program Qualification Form Required - Child Development Recommended**

Instructional Practices in Education and Training is a field-based internship that provides students with background knowledge of school-aged 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 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. *Supply list and fees required. Background check required. Students must provide their own transportation to and from the off-campus field sites.*

**Interpersonal Studies - (1/2 credit)**

**9th –12th grade**

**Prerequisite: None**

This course examines how the relationships between individuals and family members can influence personality and quality of life. Students use knowledge and skills in family studies and human development to enhance and explore personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

**Practicum in Child Guidance – (2 credits)**

**(CTEC)**

**12th grade**

**Prerequisite: Child Guidance, Program Qualification Form Required**

This practicum provides occupationally specific training and focuses on early childhood development and services. Content is designed to meet the occupational preparation needs and interests of students and based upon the knowledge and skills selected from two or more courses in a coherent sequence in the education & training cluster as well as the essential knowledge and skills for communication, critical thinking, problem solving, information technology, ethical and legal responsibilities, leadership, teamwork, and entrepreneurship. Instruction is delivered through school-based laboratory training and is a non-paid, hands-on, work-based learning course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

*Materials fees required. A TB test and background check is required.*

**Practicum in Education and Training - (2 credits)  
(CTEC)**

**(12th grade)**

**Prerequisite: Education and Training, Program  
Qualification Form Required**

Practicum in Education and Training is a field-based internship that provides students background knowledge of the school-aged 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 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. *Supply list and fees required. Background check required. Students must provide their own transportation to and from the off-campus field sites.*

## Finance

**Banking and Financial Services - (1/2 credit)**

**10th –12th grade**

**Prerequisite: None**

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

**Dollars and Sense - (1/2 credit)**

**10th –12th grade**

**Prerequisite: None**

Dollars and Sense focuses on consumer practices and responsibilities, the money management process, decision-making skills, impact of technology, and preparation for human services careers. Students are encouraged to participate in career and technical student organizations and other leadership organizations.

**Accounting I - (1 credit)**

**10th –12th grade**

**Prerequisite: None**

Students investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information. Students formulate and interpret financial information for use in management decision making. *Materials fee may be required for this course.*

**Accounting II – (1 credit)**

**(CTEC)**

**11th –12th grade**

**Prerequisite: Accounting I**

Students 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 reflect on this knowledge as they engage in various managerial and cost accounting activities. Students formulate and interpret financial information for use in management decision making. Students practice appropriate journalizing skills, and continuing utilization of Quickbooks; accounting software that will prepare them for conducting accounting business in the workforce. *Materials fee may be required for this course.*

## **Money Matters - (1 credit)**

**11th –12th grade**

**Prerequisite: Banking and Financial Services, Dollars and Sense or Accounting I**

Students will investigate money management from a personal financial perspective. Students apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to establish short-term and long-term financial goals. Students will examine various methods of achieving short-term and long-term financial goals through several means such as investing, tax planning, asset allocation, risk management, retirement planning, and estate planning. Students will gain insight of professional employability skills that are required by business and industry. By examining financial forecast students will demonstrate foundational knowledge that will require decision-making in their personal finances. *Materials fee may be required for this course.*

## **Securities and Investments – (1 credit)**

**(CTEC)**

**12th grade**

**Prerequisite: Money Matters**

Students will understand the laws and regulations to manage business operations and transactions in the securities and investments industries. Students will discuss strategies for selecting investments and understand factors that must be considered when investing. Students will explore exams and certifications required to sell securities and other financial products as well as demonstrate an understanding of proper business etiquette. *Materials fee may be required for this course.*

## **Government & Public Administration**

### **Survey of Government and Public Administration - (1 credit)**

**(CTEC)**

**9th –12th grade**

**Prerequisite: None**

This course provides the knowledge base for students who are interested in taking advanced government and legal studies courses at the CTE Center. Topics include: political philosophy, the structure of the U.S. Constitution, the state and federal judicial system (with an emphasis on the Supreme Court), constitutional case law, civil rights, criminal law, torts, consumer law, family law, public policy, political activism, and the role of media in law and politics.

### **Court Systems and Practices – (1 credit)**

**(CTEC)**

**10th –12th grade**

**Prerequisite: Survey of Government and Public Administration or Law I & II**

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.

### **Political Science – (1 credit)**

**(CTEC)**

**10th –12th grade**

**Prerequisite: Survey of Government and Public Administration**

This course will familiarize the student with political and legal theory through the study of international governmental systems, as well as the United States court system; governmental systems; public policies; and political processes, systems, and behaviors.

**Foreign Service and Diplomacy - (1 credit)**  
**(CTEC)**

**11th –12th grade**

**Prerequisite: Political Science or Mock Trial**

Foreign Service and Diplomacy provides the opportunity for students to investigate how the United States works with or against foreign powers. The course includes law, history, America's relationships with other countries, diplomacy as a career, and international relations associated with the diplomatic environment.

**Mock Trial - (1 credit)**  
**(CTEC)**

**11th –12th grade**

**Prerequisite: Political Science or Court Systems and Practices**

This course is designed to foster a better understanding of the civil and criminal trial process through simulation and the study of actual as well as fictitious crimes. Students will simulate every level of trial from opening/closing arguments, direct questioning, jury participation and sentencing. Repeat enrollment not permitted. Students are required to remain in the course for the full year due to course operations. *Lab fee required.*

**Practicum in Government - (2 credits)**  
**(CTEC)**

**12th grade**

**Prerequisite: Mock Trial, Program Qualification Form Required**

**Seniors during 2018-19 school year-Prerequisite: Political Science or Court Systems**

The practicum course is an unpaid capstone experience for students participating in a coherent sequence of courses in the Government and Public Administration cluster. Students concurrently learn advanced concepts of political science, criminal, and civil law in the classroom setting. In addition, students will apply technical skills pertaining to government and public administration in a direct mentorship by individuals in professional settings such as

government, public management and administration, criminal and civil litigation, municipal planning, foreign service, revenue, taxation, and regulation. Materials fee may be required for this course. *Students must provide their own transportation to and from the off-campus field site. Fingerprint and/or background check may be required based on field site.*

## Health Science Technology

**Medical Terminology - (1 credit)**

**9th –12th grade**

**Prerequisite: None**

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

**Health Science - (1 credit)**

**10th –12th grade**

**Prerequisite: Biology and Medical Terminology  
Collin College Articulated Credit – HPRS 1271**

This course is designed to provide students an overview of the therapeutic, diagnostic, health informatics, support services, biotechnology research, and development systems of the healthcare industry along with the requirements necessary to further their education to succeed in current or emerging healthcare profession. Through the instructional content aligned with challenging academic standards and relevant technical knowledge and skills, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and recognize that quality health care depends on the ability to collaborate well with others. *Materials fee may be required for this course*

**Health Science Clinical (A&B) - (2 credits)  
(CTEC)**

**11th –12th grade**

**Prerequisite: Health Science AND Co/Prerequisite  
Anatomy & Physiology, Program Qualification  
Form Required**

**Collin College Dual Credit – NURA 1301&  
NURA1160**

This course is designed to give students practical application of previously studied knowledge and skills. This course provides intensive classroom and clinical study of healthcare and patient care skills. The practicum is designed to give students supervised practical application of knowledge and skills in the medical field. Practicum experiences occur in various medical facilities under the supervision of medical professionals. Clinical settings for practicum experiences may vary from course to course. To be prepared for careers in the medical field, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics and science. During this course, students will take the Texas Nurse Aide certification exam and become Certified Nurse Aides (CNA). CNA testing timelines may vary from course to course. *Immunizations, TB tests, flu shot and drug screen are required. Materials fee ranging from \$125-\$150 required. Students must provide their own transportation to and from off-campus sites.*

**Electrocardiography - (2 credits)  
(CTEC)**

**12th grade**

**Prerequisite: Health Science Clinical, CNA  
Certified, Program Qualification Form Required,  
Dual Credit Enrollment Required**

**Collin College Dual Credit - DSAE 1340, ECRD  
1111**

This course is a hospital/mentor specific course designed to give students opportunities for practical application of previously studied knowledge and skills relating to health care. Students continue development of clinical skills, and study for the Electrocardiogram Technician Certification course curriculum in preparation for

taking the Electrocardiogram Technician Certification Exam. This course prepares students for employment in hospitals or other health care settings under the supervision of registered nurses or physicians, with continued emphasis on the student's ability to reason, think critically, make decisions, solve problems, and communicate effectively. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions. *Immunizations, TB tests, flu shot and drug screen are required. Materials fee ranging from \$125-\$150 required. Students must provide their own transportation to and from off-campus sites.*

**Emergency Medical Technician (EMT) - (2 credits)  
(CTEC)**

**12th grade**

**Prerequisite: Health Science Clinical, CNA  
Certified, Program Qualification Form Required,  
Dual Credit Enrollment Required**

**Collin College Dual Credit – EMSP 1371, EMSP  
1501, EMSP 1160**

This course includes skills necessary to provide emergency medical care at a basic life support level. This is a health-related, work-based learning experience that enables the students to apply emergency medical care skills and concepts to a real-world environment.

**Pharmacology - (1 credit)  
(CTEC)**

**12th grade**

**Prerequisite: Health Science, Program  
Qualification Form Required**

This course will equip students with knowledge, technical skills, and work habits required for an entry-level position in the pharmacy field or related area. They will develop an understanding of pharmaceuticals and its impact on the healthcare industry. Students will be given Sterile Products (IV) training prior to completion of the course and are eligible to sit for the National Sterile Products (IV) Certification. *In addition, students will have the opportunity to sit for the Pharmacy Technician Certification Exam (PTCE) once they successfully*



complete the course and graduate to become a Certified Pharmacy Technician. Immunizations, TB tests, flu shot and drug screen are required. Materials fee ranging from \$125-\$150, plus testing fees for certification exams. Students must provide their own transportation to and from off-campus sites.

**Medical Microbiology - (1 credit)**  
(CTEC)

**11th –12th grade**

**Prerequisite: Biology, Chemistry and Anatomy & Physiology**

Medical Microbiology is a college preparatory and laboratory-oriented course that will provide opportunities for the student to identify and culture microorganisms that are of interest in the medical field. The student will learn lab techniques for working safely with microorganisms and will investigate the physiological effects of various microorganisms on the human body. The course is intended to provide high school exposure to microbiology concepts for the student who is particularly interested in a health-related career track or for the student who is interested in the biological sciences. *Materials fee may be required for this course. This course may qualify as a science credit.*

**Pathophysiology - (1 credit)**  
(CTEC)

**11th –12th grade**

**Prerequisite: Biology, Chemistry and Anatomy & Physiology**

Pathophysiology is a college preparatory and laboratory-oriented course that will provide opportunities for the student to study the nature of disease, its causes, and the various affects diseases have on the human body. The student will apply proper lab techniques to the study of healthy and diseased tissue and be able to recognize samples of each. The course is intended for the student who is particularly interested in a health-related career track or for the student who is interested in the biological sciences. *Materials fee may be required for this course. This course may qualify as a science credit.*

## Hospitality and Tourism

**Survey of Hospitality and Tourism**  
(1 credit)

**9th –12th grade**

**Prerequisite: None**

The hospitality and tourism industry encompasses lodging; travel and tourism; recreation, amusements, attractions, and resorts; and restaurants and food beverage service. The hospitality and tourism industry maintains the largest national employment base in the private sector. Students use knowledge and skills that meet industry standards to function effectively in various positions within this multifaceted industry. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

**Hotel Management**

(1 credit)

(CTEC)

**10th –12th grade**

**Prerequisite: Survey of Hospitality & Tourism**

Students will study the lodging industry including hotels and resorts and will gain insight into different departments within a hotel such as front desk, food and beverage, housekeeping, maintenance, human resources, and accounting. Students will learn about the daily operations of a well-managed hotel. Hotel Management students will plan and design their own hotel collaborating with other CTEC classes. Students will have the opportunity to earn nationally recognized industry certification(s). Students are encouraged to participate in DECA at the CTE Center and/or home-campus.

### **Travel and Tourism Management - (1 credit)**

**10th –12th grade**

#### **Prerequisite: Survey of Hospitality and Tourism**

This course incorporates management principles and procedures of the travel and tourism industry as well as destination geography, airlines, international travel, cruising, travel by rail, lodging, recreation, amusements, attractions, and resorts. Employment qualifications and opportunities are also included in this course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

### **Hospitality Services - (2 credits)**

**(CTEC)**

**11th –12th grade**

#### **Prerequisite: Hotel Management, Travel & Tourism Management or Introduction to Culinary Arts**

Hospitality Services provides students the opportunity to learn more about careers in the hospitality industry including hotels, restaurants, and hospitality venues. In addition to classroom instruction, students will gain real-world experience by job shadowing during the year at a local hotel. Students will learn first-hand about the operations of a hotel by working with hotel professionals in the following departments: front desk, food & beverage, maintenance, housekeeping and accounting. Hospitality Services students will have the opportunity to earn nationally recognized industry certification(s). This course will focus on employability skills, communications skills and professionalism. Students are encouraged to participate in DECA at the CTE Center and/or home-campus.

### **Practicum in Hospitality Services**

**(2 Credits)**

**(CTEC)**

**12th grade**

#### **Prerequisite: Hospitality Services**

**Practicum in Hospitality Services is the 2nd year program for students interested** in a hospitality

industry internship. The course allows opportunities for students to learn through both classroom instruction and interning at a local hotel or other hospitality-related business. Students will develop employability skills, job-specific skills related to individual training plan, communication skills, and career portfolio development. The goal of the program is to prepare hospitality students with a variety of skills for a fast-paced workplace as well as prepare students for post-secondary and career success. Students will have the opportunity to participate in DECA at the CTE Center and/or home-campus. *Students must provide their own transportation to and from field sites.*

### **Introduction to Culinary Arts**

**(1 credit)**

**10th –12th grade**

#### **Prerequisite: None**

During this full year course, students will pursue a Texas Food Handlers food safety certification (ServSafe Kitchen Manager Certification, which is mandatory for taking Culinary Arts at the CTE Center). This course is also designed to introduce students to the methods and concepts of food preparation. Laboratory practice will parallel class work. Also, included in this course are the different aspects of the restaurant setting, including both front and back of the house. Students will have the opportunity to participate in related career and technical organizations & educational study trips as well as explore career opportunities and pathways in the Hospitality & Tourism Program of Study. *Testing and materials fee may be required for this course.*

## **Culinary Arts - (2 credits)**

**(CTEC)**

**11th –12th grade**

**Prerequisite: Introduction to Culinary Arts, ServSafe Managers or Foodhandlers Certification, Program Qualification Form Required**

Texas Food Handlers and/or ServSafe Managers Certification is REQUIRED. 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. This course offers direct hands-on experience and instruction in Back of House, restaurant operations, as well as catering opportunities. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. *Materials fee may be required for this course. The one-year e-Foodhandlers certification will not be permissible to enter this class.*

## **Advanced Culinary Arts - (2 credits)**

**(CTEC)**

**12th grade**

**Prerequisite: Culinary Arts, Program Qualification Form Required**

**Collin College Dual Credit – CHEF 1301 & RSTO 2307**

This course is a unique advanced culinary arts that provides hands-on opportunities for students to participate in a real commercial kitchen setting. Advanced 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. Students are taught employability skills, which include job-specific skills applicable to their training plan, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Advanced Culinary Arts is relevant and rigorous, supports student application of academic standards, and effectively prepares

students for college and career success. This course offers hands-on experience and instruction in both Front of the House and Back of the House, restaurant operations, as well as catering opportunities. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. *Materials fee may be required for this course.*

## **Dual Credit Baking and Pastry - (1 credit)**

**(CTEC)**

**12th grade**

**Prerequisite: Culinary Arts with a 80% or higher average, Program Qualification Form Required Dual Credit Enrollment Required**

**Collin College Dual Credit – PSTR 1301**

This course covers the basic theory and skill sets used throughout the field of baking and pastry. Topics covered include the use of hand tools and large equipment found in a bakeshop, as well as the exploration of baking and pastry ingredients and their functions. Students will gain a working knowledge of the major methods such as creaming, blending, foaming, piping, meringues, cut-in, straight dough, quick breads, yeast breads, custards, frozen desserts, cake decorating, and sauces. Students will also be introduced to advanced cake assembly, laminated doughs, chocolate work, plating, and specialty showpieces. Students will also taste and evaluate products they create in class to enhance their understanding of the course material. *Course fee is required by Collin College.*

## **Food Science - (1 credit)**

**12th grade**

**Prerequisite: Biology and Chemistry**

In Food Science students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Food Science is the study of the nature of foods, the causes of deterioration, the principles underlying food processing, and the improvement of foods for the consuming public. This is a

course designed to help students understand and integrate the knowledge, skills and practices of the Food Science industry through the application of the biochemistry of food and nutrition. *Materials fee may be required for this course. This course may qualify as a science credit.*

## Human Services

### **Interpersonal Studies - (1/2 credit)**

**9th –12th grade**

**Prerequisite: None**

This course examines how the relationships between individuals and family members can influence personality and quality of life. Students use knowledge and skills in family studies and human development to enhance and explore personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

### **Child Development - (1 credit)**

**10th –12th grade**

**Prerequisite: None**

This technical laboratory course addresses parenting as well as the growth and development of children. Students will explore knowledge and skills related to parenting, relationships, family dynamics, 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. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

## Information Technology

### **Survey of Information Technology – (1 credit)**

**9th –12th grade**

**Prerequisite: None**

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

### **Computer Maintenance - (1 credit)**

**9th –12th grade**

**Prerequisite: Algebra I**

**Collin College Articulated Credit – CPMT 1305**

Students acquire principles of computer maintenance, including electrical and electronic theory, computer hardware principles, and broad-level components related to the installation, diagnosis, service, and repair of computer systems. The computer maintenance curriculum offers a hands-on, career-oriented learning experience with an emphasis on practical activities to help students develop fundamental computer and career skills. Computer Maintenance helps students prepare for entry level career opportunities and the Comp TIA A+ Certification, which helps students to differentiate themselves in the marketplace and advance their careers." *This course may qualify as a technology applications credit.*

### **Networking – (1 credit)**

**(CTEC)**

**10th –12th grade**

**Prerequisite: Computer Maintenance**

**Recommended**

**Collin College Articulated Credit - ITNW 1358**

Knowing how to install, configure, and troubleshoot a computer network is a highly marketable and exciting skill. This course first introduces the fundamental building blocks that form a modern network, such as protocols,

topologies, hardware, and network operating systems. It then provides in-depth coverage of the most important concepts in contemporary networking, such as TCP/IP, Ethernet, wireless transmission, and security. The course will prepare you to select the best network design, hardware, and software for your environment. You will also have the skills to build a network from scratch and maintain, upgrade, and troubleshoot an existing network. Finally, you will be well prepared to pass CompTIA's (the Computing Technology Industry Association's) Network+ certification exam.

**Internetworking I (CISCO 1 and 2) - (1 credit)**  
**(CTEC) 11th –12th grade**

**Prerequisite: Computer Maintenance or Networking are Recommended**

**Collin College Articulated Credit - ITCC 1314 (CCNA 1) and 1340 (CCNA 2)**

This course will provide the students with basic networking terminology and models, CISCO software commands, and configuration of routing protocols and IPv4 and IPv6 addresses. This is the first year of a two-year program. After the first year, the student will be prepared to take the exam to become a CISCO Certified Entry Networking Technician (CCENT). *This class cannot be used as the required technology applications credit.*

**Internetworking II (CISCO 3 and 4) - (1 credit)**  
**(CTEC)**

**12th grade**

**Prerequisite: Internet Working I (full year), passing score on CISCO 1 and 2 exams**

**Collin College Dual Credit - ITCC 2312 (CCNA 3) and 2313 (CCNA 4)**

CISCO 3 and 4 will provide the students with the knowledge of how to configure CISCO routers and switches and setup LAN/WAN networks. This is the second year of a two-year program. After the second semester of this class, the students will be prepared to take the CISCO Certified Network Associate (CCNA) exam. *This class cannot be used as the required technology applications credit.*

**PAP Computer Science - (1 credit)**

**9th –12th grade**

**Prerequisite: Geometry or Concurrent Enrollment**

Pre-AP CS covers the same topics as on-level Computer Science but in greater depth and rigor.

No previous knowledge of programming is necessary; however, students need excellent reasoning abilities and problem solving skills.

Object-oriented concepts will receive more emphasis. This course is designed as a preparation for programming at the college level.

*This course may qualify as a technology applications credit.*

**AP Computer Science - (1 credit)**

**10th –12th grade**

**Prerequisite: Computer Science**

This course continues the study of computer programming using the Java language. Object oriented programming and class design will be studied in depth. Topics include 2D arrays, searching and sorting algorithms, and recursion. Social and ethical ramifications of computer in society will also be addressed. Programming assignments will, in general, be more extensive, and include the use of case studies. This course is intended for students who want to pursue careers in computer science, mathematics, engineering, or science. This college level course prepares students for the Advanced Placement Computer Science "A" Exam. *This course may qualify as a mathematics credit.*

**Advanced Computer Science - (1 credit)**

**11th –12th grade**

**Prerequisite: AP Computer Science**

This course continues the study of computer programming using Java. Students must have mastered the topics in AP CS. This mastery is needed for CS3's study of classic data structures including linked lists, stacks, queues, trees, heaps, priority queues, and their application to algorithms such as quick-sort and heap-sort. Students will also be introduced to graph theory and extend their knowledge of recursive algorithms. Other topics may be included, such as advanced GUI

techniques, multi-threaded programs, networked applications, and number theory. Beginning with the Class of 2019 students in this course will receive the same weighted GPA as all AP Courses.

### **Computer Science - (1 credit)**

**9th –12th grade**

#### **Prerequisite: Geometry or Concurrent Enrollment**

This is a beginner's level approach to computer programming using the Java language. No previous knowledge of programming is necessary. Students will develop and apply algorithms to solve real-world problems. Programming concepts will be taught using structured programming techniques such as data types, program input/output, if statements, loops, arrays, and lists. Object-oriented programming will also be introduced. Other topics include debugging, hardware components, and social implications of computer systems. Upon completion of this course, the student will have created software programs using computer science programming concepts. **This course may qualify as a technology applications credit.**

### **Mobile Application Programming - (1 credit)**

**(CTEC) 11th –12th grade**

#### **Prerequisite: AP Computer Science, PAP Computer Science or Computer Science**

Students are strongly recommended to complete AP Computer Science before attempting this advanced course. We will apply previously learned object-oriented programming techniques and rules of inheritance (super/sub classes, abstract classes, and interfaces) to Apple's iOS API's. Because of the dynamic nature of development for mobile devices, students will need to be independent learners; most apps will require significant research to complete, and students will work independently for most of the year. Students will code in the Swift programming language using the Xcode IDE, building apps for devices such as iPhone, iPod Touch, and iPad. Additionally, students will analyze the responsibility of software professionals regarding issues of the environment, ethics, health, safety, and diversity in society and in the workplace.

### **Video Game Design - (1 credit)**

**(CTEC)**

**10th –12th grade**

#### **Prerequisite: Computer Science, PAP Computer Science or AP Computer Science**

Students will learn game design and programming concepts. Students must have mastered the topics previously covered in Computer Science. This mastery is needed for study of programming topics including: game state and the game loop, basic display and interaction of on-screen objects, user interface design, and 2D side scrolling techniques. Students will program using the C# language in the Visual Studio environment. Our primary game platform will be the PC; some students may program for other platforms. Design topics will include: story, mechanics & dynamics, chance, strategy, balance, and level design. Significant team projects will expose students to the challenges of working in teams and develop project management & interpersonal skills.

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

### **Survey of Law, Public Safety, Corrections, and Security - (1 credit)**

**(CTEC)**

**9th –12th grade**

#### **Prerequisite: None**

This course introduces students 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 necessary for careers in law enforcement, fire service, security and corrections.

### **Law Enforcement I - (1 credit)**

(CTEC)

10th –12th grade

**Prerequisite: Survey of Law, Public Safety, Corrections & Security**

Law Enforcement I 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 the classification and elements of crime.

### **Law Enforcement II - (1 credit)**

(CTEC)

11th –12th grade

**Prerequisite: Law Enforcement I**

Law Enforcement II is designed to provide the students the knowledge and skills necessary for a career in Law Enforcement. The course includes the ethical and legal responsibilities of law enforcement personnel, operation of police and emergency telecommunicator equipment and courtroom testimony. Students will take the knowledge learned in Law Enforcement I to a higher level. Students will apply knowledge and skills through hands-on, field based experiences using classroom projects and activities. Student will also gain experience in Computer Aided Dispatching (CAD) through the use of simulation software and equipment as well as through direct observation of people employed in this field. Students will use simulated radio communications systems and participate in simulated 911 calls. Upon completion of this course students will receive the Basic Telecommunicator Certification through IAED. *Materials fee required.*

### **Forensic Science - (1 credit)**

(CTEC)

12th grade

**Prerequisite: Law Enforcement I, Biology & Chemistry**

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. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects and career options for forensic science. *This course may qualify as a science credit.*

## **Manufacturing**

### **Introduction to Welding - (1 credit) (CTEC)**

11th - 12th grade

**Prerequisite: Agricultural Structures Design and Fabrication**

This Career and Technical course is for students interested in welding as a career. Training for employment with entry-level skills in welding trades will be emphasized. Oxy-fuel welding and cutting, plasma arc cutting, shielded metal arc welding, gas metal arc welding, flux cored arc welding, and gas tungsten arc welding will be covered. Hand and power tools, welding on various types of metals, reading blueprint welding symbols, metal characteristics, and equipment setup are other areas that students master. Safety, leadership, entrepreneurship, and career opportunities are included. Materials fee may be required for this course.

## Marketing, Sales & Services

### **Fashion Marketing - (1/2 credit)**

**9th –12th grade**

**Prerequisite: None**

Fashion Marketing is designed to provide students with knowledge of the various business functions in the fashion industry. Students in Fashion Marketing will gain a working knowledge of promotion, textiles, merchandising, mathematics, selling, visual merchandising, and career opportunities. The curriculum will present embedded DECA principles and project-based learning that will give the students the opportunity to apply newly acquired marketing skills in real world situations. *Materials fee may be required for this course.*

### **Social Media Marketing - (1/2 credit)**

**9th –12th grade**

**Prerequisite: None**

Social Media Marketing is designed to look at the rise of social media and how marketers are integrating social media tools in their overall marketing strategy. The course will investigate how the marketing community measures success in the new world of social media. Students will manage a successful social media presence for an organization, understand techniques for gaining customer and consumer buy-in to achieve marketing goals, and properly select social media platforms to engage consumers and monitor and measure the results of these efforts. The curriculum will present embedded DECA principles and project-based learning that will give the students the opportunity to apply newly acquired marketing skills in real world situations.

### **Advertising - (1/2 credit)**

**9th –12th grade**

**Prerequisite: None**

Advertising is designed as a comprehensive introduction to the principles and practices of advertising. Students will gain knowledge of techniques used in current advertising, including print, broadcast, and digital media. The course explores the social, ethical, and legal issues of advertising, historical influences, strategies, and media decision processes as well as integrated marketing communications. The course provides an overview of how communication tools can be used to reach target audiences and increase consumer knowledge. The curriculum will present embedded DECA principles and project-based learning that will give the students the opportunity to apply newly acquired marketing skills in real world situations.

### **Sports and Entertainment Marketing**

**(1/2 credit)**

**10th –12th grade**

**Prerequisite: None**

This course will provide students with a thorough understanding of the marketing concepts and theories that apply to sports and sporting events and entertainment. The areas this course will cover include basic marketing, target marketing and segmentation, sponsorship, event marketing, promotions, sponsorship proposals, and implementation of sports and entertainment marketing plans. This course will also provide students an opportunity to develop promotional plans, sponsorship proposals, endorsement contracts, sports and entertainment marketing plans, and evaluation and management techniques. The curriculum will present embedded DECA principles and project-based learning that will give the students the opportunity to apply newly acquired marketing skills in real world situations.



**Entrepreneurship - (1 credit)****10th –12th grade****Prerequisite: None**

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 understand the capital required, the return on investment desired, and the potential for profit. The curriculum will present embedded DECA principles and project-based learning that will give the students the opportunity to apply newly acquired marketing skills in real world situations.

**Practicum in Marketing I (Work-Based Learning)  
(3 credits) (CTEC or Home Campus)****11th – 12th grade****Prerequisite: Qualification Form and Interview  
Required**

Through approved course required employment (job after school hours), students gain knowledge and skills that help them become proficient in one or more of the marketing functional areas associated with distribution, financing, marketing information management, pricing, product planning, promotion, purchasing, risk management, and selling skills. Students will integrate skills from academic subjects, information technology, interpersonal communication, and management training to make responsible decisions. The practicum course is a paid career experience for students participating in a coherent sequence of career and technical courses in marketing education. The curriculum will present project-based learning activities that will give the students the opportunity to apply newly acquired marketing skills in real world situations. *Students must provide their own transportation to and from their off-campus employment site.*

**Practicum in Marketing II (Work-Based Learning) -  
(3 credits)****(CTEC or Home Campus)****12th grade****Prerequisite: Qualification Form and Interview  
Required**

This course is designed to be the follow-up course to Practicum in Marketing I. Through approved course required employment (job after school hours), students gain knowledge and skills that help them become proficient in one or more of the marketing functional areas. Students will illustrate appropriate management and research skills to create the marketing mix. This course covers technology, communication, customer-service, and management level skills. The practicum course is a paid career experience for students participating in a coherent sequence of career and technical education courses in marketing education. The curriculum will present project-based learning activities that will give the students the opportunity to apply newly acquired marketing skills in real world situations. *Students must provide their own transportation to and from their off-campus employment site.*

**Sports Management - (2 Credits)****(CTEC or Home Campus)****12th grade****Collin College Articulated Credit – PHED 1336****Prerequisite: Sports & Entertainment Marketing****AND at least one of the following courses:****Advertising, Social Media Marketing, OR Survey of  
Hospitality and Tourism; Program Qualification  
Form and Interview Required**

The Sports Management course is an Internship Program for second year Sports & Entertainment Marketing students who are serious about pursuing a career in sports and/or entertainment fields. Work experience will consist of an unpaid internship with one or more businesses over the course of the school year. Possible areas of work include but are not limited to: Ticket Sales, Customer Service, Facility and Event Operations, Social Media and Web Development, Public Relations and Communications, Athletic Training

Center Operations and Marketing Sales and Service. In addition to the internship experience, time will also provide enrichment opportunities including guest speakers, class and virtual instruction, and on-site visits to venues in Frisco and the Dallas/Fort Worth area pertaining to sports and entertainment. Since students in this class will be functioning directly in a sports/entertainment environment, it is important that they have excellent communication, computer, reading and writing skills. *DECA membership fee is required for this course. Students must provide their own transportation to and from off-campus internship site.*

## Science, Technology, Engineering & Mathematics

### “PLTW” – Project Lead the Way Courses:

#### **PLTW – Intro to Engineering Design - (1 credit)** **(CTEC)**

**9th –12th grade**

**Prerequisite: Full Algebra I credit**

Introduction to Engineering Design (IED) is a high school level course that is appropriate for any high school students who are interested in design and engineering. The major focus of the IED course is to expose students to design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. IED gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based learning. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges that increase in difficulty throughout the course. In addition, students use Inventor, which is a state of the art 3D design software package from Autodesk, to help them design solutions to solve proposed problems. Students will also learn how to document their work, and communicate their solutions to their peers and members of the professional community. This course is a portion

of the FISD Pre-Engineering Program that is associated with “Project Lead the Way” curriculum that can lead to university credit. Materials fee may be required for this course. *This course may qualify as a technology applications credit.*

#### **PLTW - Principles of Engineering - (1 credit)** **(CTEC)10th –12th grade**

**Prerequisite: Full Introduction to Engineering Design credit**

Principles of Engineering (POE) is a course that helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes that will help students learn how engineers and technicians use math, science and technology in an engineering problem-solving process to benefit people. The course also includes concerns about social and political consequences of technological change. This course is a portion of the FISD Pre-Engineering Program that is associated with “Project Lead the Way” curriculum that can lead to university credit. *Materials fee may be required for this course.*

#### **PLTW - Digital Electronics - (1 credit)** **(CTEC)**

**11th –12th grade**

**Prerequisite: Full Principles of Engineering credit**

Digital Electronics (DE) is the study of electronic circuits that are used to process and control digital signals. The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. Students will analyze, design and build digital electronic circuits. This course is a portion of the FISD Pre-Engineering Program that is associated with “Project Lead the Way” curriculum that can lead to university credit. *Materials fee may be required for this course.*

**PLTW - Aerospace Engineering - (1 credit)  
(CTEC)**

**11th –12th grade**

**Prerequisite: Full Principles of Engineering credit**

Aerospace Engineering (AE) is a course that will expose students to the world of aeronautics, flight, and engineering. Lessons will engage students in engineering design problems related to aerospace information systems, astronautics, rocketry, propulsion, the physics of space science, space life sciences, the biology of space science, principles of Aeronautics, structures and materials, and systems engineering. Students design intelligent vehicles and learn about documenting their project, solving problems, and communicating their solutions to their peers and members of the professional community. This course is a portion of the FISD Pre-Engineering Program that is associated with “Project Lead the Way” curriculum that can lead to university credit. *Materials fee may be required for this course.*

**PLTW - Civil Engineering & Architecture - (1 credit)  
(CTEC)**

**10th –12th grade**

**Prerequisite: Full Introduction to Engineering Design credit**

Civil Engineering and Architecture (CEA) is a course that is structured to enable all students to have a variety of experiences that will provide an overview of both fields. Students work in teams, exploring hands-on projects and activities to learn the characteristics of civil engineering and architecture. In addition, students use Rivet, which is a state of the art 3D design software package from Autodesk, to help them design solutions to solve their major course project. This course is a portion of the FISD Pre-Engineering Program that is associated with “Project Lead the Way” curriculum that can lead to university credit. *Materials fee may be required for this course.*

**PLTW - Digital Electronics  
(1 credit) (CTEC)**

**11th –12th grade**

**Prerequisite: Full Principles of Engineering credit**

Digital Electronics (DE) is the study of electronic circuits that are used to process and control digital signals. The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. Students will analyze, design and build digital electronic circuits. This course is a portion of the FISD Pre-Engineering Program that is associated with “Project Lead the Way” curriculum that can lead to university credit. *Materials fee may be required for this course.*

**PLTW - Engineering Design and Development  
(1 credit) (CTEC)**

**12th grade**

**Prerequisite: Full Principles of Engineering credit and 3rd PLTW course credit or concurrently taking 3rd PLTW course**

Engineering Design and Development (EDD) is a research course that requires students to formulate the solution to an open-ended engineering question. With a community mentor and skills gained in their previous courses, students create written reports on their applications, defend the reports, and submit them to a panel of outside reviewers at the end of the school year. This course is a portion of the FISD Pre-Engineering Program that is associated with “Project Lead the Way” curriculum that can lead to university credit. *Materials fee may be required for this course.*

## Dual Credit CTE through Collin College

### DUAL CREDIT Internetworking II/CISCO III and IV (1 credit) (CTEC)

12th grade

**Prerequisite: Internet Working I (full year), passing score on CISCO I and II exam, Collin College Dual Credit Enrollment Required**

CISCO III and IV will provide the students with the knowledge of how to configure CISCO routers and switches and setup LAN/WAN networks. This is the second year of a two-year program. After the second semester of this class, the students will be prepared to take the CISCO Certified Network Associate (CCNA) exam. *This class cannot be used as the required technology applications credit.*

## Health Science Dual Credit Program

Students taking dual credit courses in health science will be required to meet all admission and program requirements from Collin College which may include a diagnostic test, CPR certification, personal interview, drug test, criminal history check.

The following courses are included as part of the FISD Health Science Clinical course.

### NURA 1160 Clinical-Nursing Aide and Patient Care Assistant

11<sup>th</sup>-12<sup>th</sup> grade

**FISD Prerequisite: Health Science, Program Qualification Form Required, Collin College Dual Credit Enrollment Required**

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Prerequisite: NURA 1301 or consent of Program Director. 1 credit hour.

The following courses are included as part of the FISD Emergency Medical Technician course.

### EMSP 1371 Introduction to Emergency 12th grade

Medical Technician (EMT)

**FISD Prerequisite: Health Science Clinical, Program Qualification Form Required, Collin College Dual Credit Enrollment Required**

Introduction to Emergency Medical Services including: history, organization and function, legal aspects, and ethics. Overview of human anatomy and physiology, patient assessment, airway control, and infection control techniques.

Prerequisite: Consent of Program Director. Co-requisites: EMSP 1160 and EMSP 1501. 3 credit hours.

### EMSP 1501 Emergency Medical Technician 12th grade

**FISD Prerequisite: Health Science Clinical, Program Qualification Form, Collin College Dual Credit Enrollment Required**

Includes all the skill necessary to provide emergency medical care at a basic life support level with an ambulance service or other specialized services. Lab required. 5 credit hours.

### EMSP 1160 Clinical-Emergency Medical 12th grade

Technician (EMT Paramedic)-Basic

**FISD Prerequisite: Health Science Clinical, Program Qualification Form Required, Collin College Dual Credit Enrollment Required**

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. 1 credit hour.

The following courses are included as part of the FISD Electrocardiography course:

**DSAE 1340 Diagnostic Electrocardiography  
12th grade**

**FISD Prerequisite: Health Science Clinical, Program Qualification Form Required, Collin College Dual Credit Enrollment Required**

Cardiac testing including the techniques and interpretation of patient physical assessment. Covers electrocardiography, stress testing, Holter monitoring, vital signs, and cardiovascular pharmacology. Lab required. 3 credit hours

**ECRD 1111 Electrocardiography  
12th grade**

**FISD Prerequisite: Health Science Clinical, Program Qualification Form Required, Collin College Dual Credit Enrollment Required**

Fundamentals of cardiovascular anatomy and physiology. Includes basic electrocardiography procedures, interpretation of basic dysrhythmias, and appropriate treatment modalities. 1 credit hour.

These courses may assist students in achieving an MSAA Award at Collin College. Students must take the full sequence of courses to receive the award. FISD will add additional classes in the future that are included in the sequence of courses. See Collin College catalog for more information.

**Marketable Skills Achievement Awards -** Marketable Skills Achievement Awards (MSAA) are nine to 14 credit hour awards that add to the student's marketability or make the student eligible for immediate employment. These awards are also designed as a stepping stone toward earning certificates or the AAS degree.

- MSAA – Emergency Medical Services Professions (EMT)
- MSAA – Patient Care Technician
- MSAA – Health Professions - Certified Nurse Assistant Track & Phlebotomy Track
- MSAA – Electrocardiography

The following courses are included as part of the FISD Advanced Culinary Arts course:

**CHEF 1301 Basic Food Preparation  
FISD Prerequisite: Culinary Arts, Program Qualification Form Required**

A study of the fundamental principles of food preparation and cookery to include Brigade System, cooking techniques, material handling, heat transfer, sanitation, safety, nutrition, and professionalism. Lab required. Prerequisite: Mandatory Culinary / Pastry Arts Orientation. 3 credit hours.

**RSTO 2307 Catering  
FISD Prerequisite: Culinary Arts, Program Qualification Form Required**

Principles, techniques, and applications for both on premises, off-premises, and group marketing of catering operations including food preparation, holding, and transporting techniques. Lab required. Prerequisite: HAMG 2301; or consent of Associate Dean. 3 credit hours.

## **Health Science Online *Concurrent Credit* Courses (Collin College)**

These courses may contribute to a student's readiness for courses in the Health Science Pathway. Students taking online courses in health science will be required to meet all admission and program requirements from Collin College which may include a diagnostic test, CPR certification, personal interview, drug test, and/or criminal history check.

**HITT 1305 Medical Terminology I (ONLINE)  
11th –12th grade**

**FISD Prerequisite: Health Science**  
Study of medical terms through word origin and structure. Introduction to abbreviations and symbols, surgical and diagnostic procedures, and medical specialties. 3 credit hours

**HITT 1345 Health Care Delivery Systems (ONLINE)**

**11th –12th grade**

**FISD Prerequisite: Health Science**

Examination of delivery systems including organization, financing, accreditation, licensure, and regulatory agencies. This course covers alternative health care delivery systems. Lab required. 3 credit hours.

**HITT 1353 Legal and Ethical Aspects of Health Information (ONLINE)**

**11th –12th grade**

**FISD Prerequisite: Health Science**

Concepts of privacy, security, confidentiality, ethics, health care legislation, and regulations relating to the maintenance and use of health information. Prerequisite: HITT 1305. 3 credit hours.

**HITT 2328 Introduction to Public Health (ONLINE)**

**11th –12th grade**

**FISD Prerequisite: Health Science**

A survey of how health care and public health services are organized and delivered in the U.S. Covers public policy, relevant organizations and their interrelationships, professional roles, legal and regulatory issues, and payment systems. Includes health reform initiatives in the U.S. 3 credit hours.

**HPRS 2232 Health Care Communications (ONLINE)**

**11th –12th grade**

**FISD Prerequisite: Health Science**

Methods of communication with clients, client support groups, healthcare professionals, and external agencies. 2 credit hours.

**Dual Credit through LeTourneau University**

**Aviation Dual Credit Program**

**AVTC 1003 Foundational Concepts of Aviation Studies**

**(Semester 1) - (1/2 credit)**

**(CTEC)**

**11th –12th grade**

**FISD Prerequisite: Geometry, Algebra II preferred, LeTourneau University Dual Credit Enrollment Required**

This course is an overview of the aviation profession and the vehicles used for powered flight. Topics include attributes of an aviation professional, airman qualifications privileges and limitations, career opportunities, ethics, technical publications, weight and balance from the technician's perspective, aircraft configuration, and operational capabilities. A study of the early history of powered flight is also included. 3 credit hours.

**AVTC 2003 Aircraft Systems for Pilots**

**(Semester 2) – (1/2 credit)**

**(CTEC)**

**11th –12th grade**

**FISD Prerequisite: Geometry, Algebra II preferred, LeTourneau University Dual Credit Enrollment Required**

An overview of airframe systems such as aircraft electrical systems, fuel systems, cabin atmosphere control systems, instrument systems, communication and navigation systems, ice and rain control systems, fire protection systems, and aircraft inspection requirements. Class 3. Prerequisite(s): AVTC 1003.

**AERF 1113 - FLIGHT SCIENCE I**

**(Semester 3) – (1/2 credit)**

**(CTEC)**

**11th –12th grade**

**FISD Prerequisite: Geometry, Algebra II preferred,  
LeTourneau University Dual Credit Enrollment  
Required**

A study of the basics in flight, including aerodynamics, aircraft systems, weight and balance, charts, navigation, flight planning, regulations, and weather. Successful completion of the course completes requirements to take the Federal Aviation Administration Private Pilot Knowledge exam. Class 3.

**AVTC 2013 Powerplant Systems for Pilots**

**(Semester 4) - (1/2 credit)**

**(CTEC)**

**11th –12th grade**

**FISD Prerequisite: Geometry, Algebra II preferred,  
LeTourneau University Dual Credit Enrollment  
Required**

This course is an overview of the theory, principles of operation, and control of reciprocating and turbine power plants and related systems. 3 credit hours.

# DUAL CREDIT COURSE OFFERINGS

*Note: Dual Credit offerings are listed under both the related content and dual credit sections.*

## **Dual Credit English (III or IV):**

### **ENGL 1301 Composition I – (1/2 credit)**

**11th –12th grade**

#### **Prerequisite: English II and meet eligibility requirements**

Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis. Lab required. Prerequisite: Meet TSI college-readiness standard for Reading and Writing; or equivalent. 3 credit hours. This course fulfills ½ credit for either English III (for Juniors intending to take ENGL 2332 and ENGL 2333 in the senior year) or English IV (for seniors). It should be paired with ENGL 1302 in the second semester to grant a full credit of high school English.

## **Dual Credit English (III or IV):**

### **ENGL 1302 Composition II – (1/2 credit)**

**11th –12th grade**

#### **Prerequisite: English II and meet eligibility requirements**

Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions. Lab required. Prerequisite: ENGL 1301. 3 credit hours. This course fulfills ½ credit for either English III (for Juniors intending to take ENGL 2332 and ENGL 2333 in the senior year) or English IV (for seniors). It should be paired with ENGL 1302 in the

second semester to grant a full credit of high school English.

## **Dual Credit English IV:**

### **ENGL 2332 World Literature I – (1/2 credit)**

**12th grade**

**Offered starting 2018-19**

#### **Prerequisite: ENGL 1302 and meet eligibility requirements**

A survey of world literature from the ancient world through the sixteenth century. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. 3 credit hours. This course satisfies ½ credit for the Advanced English high school credit (English IV) and should be paired with ENGL 2333 in the second semester.

## **Dual Credit English IV:**

### **ENGL 2333 World Literature II – (1/2 credit)**

**12th grade**

**Offered starting 2018-19**

#### **Prerequisite: 2332 and meet eligibility requirements**

A survey of world literature from the seventeenth century to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Prerequisite: ENGL 1302 or ENGL 2311. 3 credit hours. This course satisfies ½ credit for the Advanced English high school credit (English IV) and should be paired with ENGL 2332 in the first semester.



**Dual Credit US History:****HIST 1302 U.S. History II – (1/2 credit)****11th grade****Prerequisite: Must meet eligibility requirements**

A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction period to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War, and post-Cold War eras. Themes that may be addressed in United States History II include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy. 3 credit hours. This course satisfies ½ credit of required high school US History credit and should be paired with HIST 1301 in the second semester. Students completing HIST 1302 in fall semester are required to take the Texas End of Course Exam (EOC) for US History in the December testing administration.

**Dual Credit US History:****HIST 1301 U.S. History I – (1/2 credit)****11th grade****Prerequisite: Must meet eligibility requirements**

A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed in United States History I include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government. 3 credit hours. This course satisfies ½ credit of required high school US History credit and should be paired with HIST 1302 in the first semester.

**Dual Credit Government:****GOVT 2305 Federal Government – (1/2 credit)****12th grade****Prerequisite: Meet eligibility requirements**

Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights. 3 credit hours. This course satisfies the high school requirement of Government.

**Dual Credit Elective:****GOVT 2306 Texas Government – (1/2 credit)****12th grade****Prerequisite: Meet eligibility requirements**

Origin and development of the Texas Constitution, structure and powers of the state and local government, federalism and inter-governmental relations, political participation, the election process, public policy and the political culture of Texas. 3 credit hours. This course satisfies ½ elective credit toward high school graduation.

**Dual Credit Economics:****ECON 2302 Principles of Microeconomics – (1/2 credit)****12th grade****Prerequisite: Must meet eligibility requirements**

Analysis of the behavior of individual economic agents, including consumer behavior and demand, producer behavior and supply, price and output decisions by firms under various market structures, factor markets, market failures, and international trade. Prerequisite: Meet TSI college-readiness standard for Reading and Writing; or equivalent. 3 credit hours. This course fulfills the high school requirement for Economics.

**Dual Credit Math:****MATH 1314 College Algebra - (1/2 credit)****11th –12th grade****Prerequisite: Algebra II and meet eligibility requirements**

College Algebra is an in-depth study of polynomial, rational, exponential, logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. A graphing calculator is required. This course may qualify as 1/2 of the 4th high school math credit as well as 3 college credit hours. In order to receive 1 full credit of high school math, students must also take Dual Credit Plane Trigonometry (MATH 1316) or Dual Credit Elementary Statistical Methods (MATH 1342).

**MATH 1316 Plane Trigonometry – (1/2 credit)****11th –12th grade****Prerequisite: MATH 1314 and meet eligibility requirements**

Plane Trigonometry is the in-depth study and application of trigonometry including definitions, identities, inverse functions, solutions of equations, graphing, and solving triangles. Additional topics such as vectors, polar coordinates and parametric equations may be included. Graphing calculator required. This course may qualify as 1/2 of the 4th high school, math credit as well as 3 college credit hours. Students must complete Dual Credit College Algebra MATH 1314 before taking this course.

**MATH 1342 Elementary Statistical Methods - (1/2 credit)****11th –12th grade****Prerequisite: Algebra II and meet eligibility requirements**

Elementary Statistical Methods is the collection, analysis, presentation and interpretation of data and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Graphing calculator required. Lab required. Students are responsible for all transportation, books, fees, and tuition at the college and must pass TSI (Texas

Success Initiative Assessment) to enroll. This is course and may qualify as 1/2 of the 4th high school math credit as well as 3 college credit hours. Students must complete Dual Credit College Algebra (MATH 1314) before taking this course.

**MATH 2412 Pre-Calculus Math – (1/2 credit)****12th grade****Offered Starting in 2018-19****Prerequisite: MATH 1314 and meet eligibility requirements**

In-depth combined study of algebra, trigonometry, and other topics for calculus readiness. Graphing calculator required. Lab required. 4 credit hours.

**MATH 2413 Calculus I – (1/2 credit)****12th grade****Offered Starting in 2018-19****Prerequisite: MATH 2412 and meet eligibility requirements**

In-depth combined study of algebra, trigonometry, and other topics for calculus readiness. Graphing calculator required. Lab required. 4 credit hours.

**Dual Credit Science:****BIOL 1406 Biology for Science Majors I – (1/2 credit)****12th grade****Prerequisite: Meet eligibility requirements**

Lecture: Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, and scientific reasoning are included. Lab: Laboratory activities will reinforce the fundamental principles of living organisms, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Study and examination of the concepts of cytology, reproduction, genetics, and scientific reasoning are included. Lab required. 4 credit hours. This course satisfies ½ credit toward the high school 4th year science requirement.

**BIOL 1407 Biology for Science Majors II**

– (1/2 credit)

12th grade

**Prerequisite: BIOL 1406 and meet eligibility requirements**

Lecture: The diversity and classification of life will be studied, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. Lab: Laboratory activities will reinforce study of the diversity and classifications of life, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. Lab required. Prerequisite: BIOL 1406. 4 credit hours. This course satisfies ½ credit toward the high school 4th year science requirement.

**BIOL 1408 Biology for Non-Science Majors I**

– (1/2 credit)

12th grade

**Prerequisite: Meet eligibility requirements**

Lecture: Provides a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. Lab: Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function, and reproduction. Lab required. 4 credit hours. This course satisfies ½ credit toward the high school 4th year science requirement.

**BIOL 1409 Biology for Non-Science Majors II**

– (1/2 credit)

12th grade

**Prerequisite: BIOL 1408 and meet eligibility requirements**

Lecture: This course will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. Lab: Laboratory activities will reinforce a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity, and physiology. Lab required. This course satisfies ½

credit toward the high school 4th year science requirement.

**Dual Credit Elective:**

**PSYC 1300 – Learning Framework**

– (1/2 credit)

10th -12th grade

**Prerequisite: Meet eligibility requirements**

A study of the 1) research and theory in the psychology of learning, cognition, and motivation, 2) factors that impact learning, and 3) application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g. learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned. 3 credit hours. This course satisfies ½ elective credit toward high school graduation. Students who have taken high school Psychology may enroll in this dual credit course.

*Dual Credit CTE Courses are also available; please see CTE Course Offerings for more information.*

**Dual Credit Elective:**

**SOCI 1301 Introduction to Sociology**

**– (1/2 credit)**

**11th -12th grade**

**Offered starting in 2018-19**

**Prerequisite:** Meet eligibility requirements

The scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ethnicity, and deviance. 3 credit hours. This course satisfies ½ elective credit toward high school graduation.

**Dual Credit Elective:**

**ARTS 1301 – Art Appreciation (1/2 credit)**

**11th -12th grade**

**Offered starting in 2018-19**

**Prerequisite:** Meet eligibility requirements

A general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical context. 3 credit hours. This course satisfies ½ elective credit toward high school graduation.

Please note that it cannot be used to count toward the required 1 Fine Arts credit, as it is only ½ credit and has no second-semester course pairing.

**Dual Credit Speech:**

**SPCH 1311 Introduction to Speech – (1/2 credit)**

**10th -12th grade**

**Communication**

**Offered to the 2021 graduates and beyond ONLY**

**Prerequisite:** Meet eligibility requirements

Introduces basic human communication principles and theories embedded in a variety of contexts including interpersonal, small group, and public speaking. 3 credit hours. This course satisfies the high school speech credit requirement.