FISD

High School Academic Guide and Course Catalog 2019-20

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

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 have 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.*

This guide is intended as a reference and does not replace policy. Any extenuating circumstances are determined at the discretion of the principal.

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Section I: Academic Guide

Graduation Programs and 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 during the time of course selection every year; 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. 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 required for 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.

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.

Endorsement Pathways

The endorsement pathways listed below are for illustration purposes. 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 graduation plan for all FISD students leads to the Distinguished Level of Achievement, which requires Alg. II to be in the math sequence of the student's endorsement plan.

ARTS & HUMANITIES 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.

1st Course in Sequence	2nd Course in Sequence	3rd Course in Sequence	4th Course in Sequence
Fine Arts - Art			
• Art 1 or PAP Art 1 (Class of 2018 & Beyond) • 3D Modeling & Animation - Fine Arts Credit	• Art 2 • PreAP Art 2 • AP Art – Drawing • Art 2 – Ceramics	• Art 3 • AP Art – 2D or 3D • AP Art – Drawing	• Art 4 • AP Art – 3D • AP Art History
Fine Arts – Dance			
Dance 1	Dance 2	Dance 3	Dance 4
Language			
• Spanish 1 • French 1 • Chinese 1 • ASL 1	• Spanish 2 or PAP Spanish 2 • French 2 or PAP French 2 • Chinese 2 • ASL 2	• Spanish 3 or PAP Spanish 3 • French 3 or PAP French 3 • PAP Chinese 3	• AP Spanish 4 • AP French 4 • Chinese 4
Fine Arts – Music			
• Band 1 • Orchestra 1 • Choir 1	• Band 2 • Orchestra 2 • Choir 2	• Band 3 • Orchestra 3 • Choir 3	• Band 4 • Orchestra 4 • Choir 4
Social Studies – *Students must earn 5 total credits in Social Studies*			
• World Geography • AP Human Geography	• World History OR AP World History • GT Humanities II / AP World History • AP Seminar	• US History or AP US History • Psychology (1/2) or AP Psychology (1/2) or Sociology (1/2) • AP European History • AP Seminar	• US Government (1/2) or AP US Government (1/2) • Economics (1/2) or AP Economics (1/2) • Dual Credit US. Govt. (1/2) & Dual Credit Economics (1/2) • AP Seminar

Fine Arts – Theatre			
• Theatre Arts 1 • Tech Theater 1	• Theatre Arts 2 / Theatre Production 1 • Tech Theater 2	• Theatre Arts 3 / Theatre Production 2 • Tech Theater 3	• Theatre Arts 4 / Theatre Production 3 • Tech Theater 4

BUSINESS & INDUSTRY 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.

1st Course in Sequence	2nd Course in Sequence	3rd Course in Sequence	4th Course in Sequence
Advanced Journalism			
• Journalism or Photojournalism • Broadcast 1 • Debate 1	• Yearbook 1 • Broadcast 2 • Debate 2	• Yearbook 2 • Broadcast 3 • Debate 3	• Yearbook 3 • Video Technology • Adv Public Speaking
Agriculture, Food & Natural Resources – Animal Science OR Veterinary Assistant			
• Survey of Agriculture, Food & Natural Res (1) • Wildlife, Fisheries, & Eco Mgmt. (1)	• Equine Science (1/2) • Small Animal Management (1/2) • Livestock Production (1)	CTEC – Veterinary Medical Applications (1)	• CTEC – Adv Animal Science (1) (Science Credit) • CTEC – Practicum in Vet Med Apps (2) Internship
Agriculture, Food & Natural Resource - Floral Design OR Horticulture & Landscape Design			
Survey of Agriculture, Food & Natural Res (1)	• Floral Design (1) (Fine Arts Credit) • CTEC – Horticulture Science (1) • CTEC – Landscape Design and Mgmt. (1/2)	• CTEC – Advanced Floral Design (1) • CTEC – Greenhouse Operation & Production (1)	CTEC – Adv Plant & Soil Science (1) (Science Credit)
Agriculture, Food & Natural Resource - Ag Mechanics			
• Agricultural Mechanics & Metal Technologies (1) • Survey of Ag, Food & Natural Res (1)	Ag Structures Design & Fabrication (1)	• CTEC – Ag Equipment Design & Fabrication (1) • CTEC – Introduction to Welding (1)	CTEC – Practicum In Ag Structures & Equipment (2)
Architecture & Construction			
CTEC – Architecture & Construction I (1)	• CTEC – Architecture & Construction II (1) • Interior Design I (1)	• CTEC – Architectural Design I (1) • Interior Design II (2)	• CTEC –Architectural Design II (2) Internship
Arts, AV Technology & Communication – Audio & Video Production			
TV Broadcast I	TV Broadcast II	• CTEC – Audio/Video Production I (2) • CTEC – Sports Broadcasting I (2)	• CTEC – Audio/Video Production II (2) • CTEC – Sports Broadcasting II (2)
Arts, AV Technology & Communication – Graphic Design & Illustration			
Digital Media (1)	• CTEC – Graphic Design & Illustration I (2) • CTEC – Web Technologies (1)	CTEC – Graphic Design & Illustration II (2)	CTEC – Pract in Graphic Design & Illustration (2) Internship

Arts, AV Technology & Communication – Animation			
3D Modeling & Animation (1) (Fine Arts Credit)	CTEC – Animation I (2)	CTEC – Animation II (2)	CTEC – Practicum in Animation (2)
Arts, AV Technology & Communication – Fashion Design			
• Survey of Business, Marketing & Finance (1)	• Fashion Design I (1) • Fashion Marketing (1/2)	Fashion Design II (1)	CTEC – Practicum in Marketing (3) Internship
Business Management & Administration			
• Business Information Management I (1) • Survey of Business, Marketing & Finance (1)	• CTEC – Business Information Management II (1) • Entrepreneurship (1)	• Business Law (1) • Global Business (1/2)	CTEC – Practicum in Marketing (3) Internship
Financial Systems			
Survey of Business, Marketing & Finance (1)	• Accounting I (1) • Banking & Financial Services (1/2) • Dollars & Sense (1/2)	• CTEC – Accounting II (1) • CTEC – Money Matters (1)	CTEC – Securities & Investments (1)
Hospitality & Tourism			
Survey of Hospitality & Tourism (1)	• Introduction to Culinary Arts (1) • CTEC – Hotel Management (1) • Travel & Tourism Management (1)	• CTEC – Culinary Arts (2) • CTEC – Hospitality Services (2)	• CTEC – Advanced Culinary Arts (2) Articulated Credit • CTEC – Baking & Pastry (1) Dual Credit • CTEC – Practicum in Hospitality Services (2) Internship • Food Science (1) (Science Credit)
Information Technology			
• Computer Maintenance (1) Articulated Credit • Survey of Information Technology (1)	• CTEC – Networking (1) Articulated Credit • CTEC – Cybersecurity (1)	CTEC – Internet Working I (CISCO 1 & 2) Articulated Credit	CTEC – Internet Working II (CISCO 3 & 4) Dual Credit
Marketing, Sales, & Service			
• Survey of Business, Marketing & Finance (1) • Fashion Marketing (1/2) • Digital Media (1)	• Sports & Entertainment Marketing (1/2) • CTEC – Social Media Marketing (1/2) • CTEC – Advertising (1/2)	Entrepreneurship (1)	CTEC – Practicum in Marketing (3) Internship
Sports & Entertainment Management			
• Survey of Business, Marketing & Finance (1) • Survey of Hospitality & Tourism (1) • Digital Media (1)	• CTEC – Social Media Marketing (1/2) • CTEC – Advertising (1/2)	Sports & Entertainment Marketing (1/2)	CTEC – Sports Management (2) Articulated Credit/Internship
Transportation, Distribution & Logistics			
Geometry	Algebra II	• CTEC–Foundational Concepts of Aviation Studies (Semester 1)(1/2) Dual Credit • CTEC-Aircraft Systems for Pilots (Semester 2) (1/2) Dual Credit	• CTEC-Flight Science I (Semester 3) (1/2) Dual Credit • CTEC-Power Plant Systems for Pilots (Semester 4) (1/2) Dual Credit

MULTIDISCIPLINARY ENDORSEMENT

This is one recommended approach for this endorsement. Please view the FISD Course Catalog for prerequisites and other specifics.

1st Course in Sequence	2nd Course in Sequence	3rd Course in Sequence	4th Course in Sequence
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, see catalog for all options and courses)			
• English 1 / PAP English 1 / GT Humanities I • Biology / PAP Biology • Algebra 1 / PAP Algebra 1 • World Geography / AP Human Geography	• English 2 / PAP English 2 • Chemistry / PAP Chemistry • Geometry / PAP Geometry • World History / AP World History / GT Humanities II	• English 3 / AP English Language • Physics / AP Physics 1 • Algebra 2 / PAP Algebra 2 • US History / AP US History	• English 4 / AP English Literature / College Readiness English • AP Physics 2 / AP Physics C / AP Biology / AP Chemistry / or other 4th Science • Pre Calculus / AP Calculus / or other 4th Math • Government (1/2) & Economics (1/2) or • AP Government (1/2) & AP Economics (1/2)

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.

1st Course in Sequence	2nd Course in Sequence	3rd Course in Sequence	4th Course in Sequence
Education & Training			
Survey of Education & Training (1)	• Child Development (1) • Interpersonal Studies (1/2)	• CTEC –Education & Training (2) Internship • CTEC – Child Guidance (2) Internship	• CTEC – Practicum in Education & Training (2) Internship • CTEC – Practicum in Child Guidance(2) Internship
Government & Public Administration			
CTEC – Survey of Gov't & Public Admin (1)	• CTEC – Court Systems & Practices (1) • CTEC – Political Science (1)	CTEC – Mock Trial (1)	• CTEC – Practicum in Government (2) Internship • CTEC – Foreign Service & Diplomacy (1)
Health Science			
Medical Terminology (1)	• Health Science (1) (Health Credit) • Anatomy & Physiology (1)	• Health Science Clinical (2) Articulated Credit/Internship • CTEC – Pathophysiology (1) (Science Credit) • CTEC – Medical Microbiology (1) (Science Credit) • Future Ready Health Care (1)	• CTEC – Electrocardiography Dual Credit/Internship • CTEC – Emergency Medical Technician (2) Dual Credit • Pharmacology (1)
Law, Public Safety, Corrections, & Security			
CTEC – Survey of Law, Public Safety, Corrections & Security (1)	CTEC – Law Enforcement I (1)	CTEC - Law Enforcement II (1)	CTEC – Forensic Science (1) (Science Credit)

STEM (Science, Technology, Engineering, and Math) 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.

1st Course in Sequence	2nd Course in Sequence	3rd Course in Sequence	4th Course in Sequence
Computer Science – In addition to Algebra 2, Chemistry, & Physics			
• Computer Science (1) • PAP Computer Science (1)	• AP Computer Science (2)	• CTEC – Video Game Programming (1) • Advanced Computer Science (1)	• CTEC – Advanced Video Game Programming • CTEC – Mobile Application Programming (1)
Math – 5 Total Math Credits (Completion of TWO additional math courses AFTER completion of Algebra 2) – In addition to Chemistry & Physics			
• PAP Algebra 1 / Algebra 1 • Geometry / PAP Geometry	• Algebra 2 / PAP Algebra 2 • AP Computer Science (1)	*Advanced Quantitative Reasoning* *Pre-Calculus / PAP Pre-Calculus*	• AP Statistics • Bus. Calculus (1/2) / College Algebra (1/2) Dual Credit • AP Calculus AB • AP Calculus BC
Science – 5 Total Science Credits (Completion of TWO additional science courses AFTER completion of Physics) – In addition to Algebra 2			
Biology / PAP Biology	• Chemistry / PAP Chemistry • Anatomy & Physiology • Physics / AP Physics 1	• Environmental Systems • AP Environmental Science • AP Biology • AP Chemistry • Earth & Space Science	• AP Physics B • AP Physics C • CTEC-Medical Microbiology (1) • CTEC – Pathophysiology (1) • Forensic Science • Advanced Animal Science • Food Science
Science, Technology, Engineering & Mathematics			
CTEC – PLTW – Introduction to Engineering Design (1)	• CTEC – PLTW – Principles of Engineering Design (1) • CTEC – PLTW – Civil Engineering & Architecture (1)	• CTEC – PLTW - Digital Electronics (1) • CTEC – PLTW – Aerospace Engineering (1)	CTEC – PLTW – Engineering Design & Development (1)

Graduation Programs Chart

This chart outlines credits required. Various options and levels of courses are described in this Guide.

SUBJECT AREA	FOUNDATION HIGH SCHOOL PROGRAM *(May only be selected at the conclusion of the 10th grade year)*	FHSP+ENDORSEMENT *with option of* DISTINGUISHED LEVEL OF ACHIEVEMENT
ENGLISH	**4 Credits** • English I • English II • English III or equivalent • English IV or equivalent	**4 Credits** • English I • English II • English III or equivalent • English IV or equivalent
MATH	**3 Credits** • Algebra I • Geometry • 3rd Credit of Math Approved by TEA	**4 Credits** • Algebra I • Geometry • Algebra II *(Required for DLA)* • 4th Credit of Math
SCIENCE	**3 Credits** • Biology • An additional credit must be selected from the following courses: □ IPC □ Chemistry □ Physics • One additional science credit selected from the course catalog	**4 Credits** • Biology • An additional credit must be selected from the following courses: □ IPC □ Chemistry □ Physics • Two additional science credits selected from the course catalog
SOCIAL STUDIES	**4 Credits** • World Geography • World History • U.S. History • Economics (.5 credit) • U.S.Government (.5 credit)	**4 Credits** • World Geography • World History • U.S. History • Economics (.5 credit) • U.S.Government (.5 credit)
FINE ARTS	**1 Credit** Fine Arts (see course catalog for options)	**1 Credit** Fine Arts (see course catalog for options)
SPEECH	**.5 Credit –** Professional Communications/equivalent	**.5 Credit –** Professional Communications/equivalent
HEALTH	**.5 Credit –** Health	**.5 Credit -** Health
TECHNOLOGY APPLICATIONS	**1 Credit** Technology Applications (see course catalog for options)	**1 Credit** Technology Applications (see course catalog for options)
WORLD LANGUAGE	**2 Credits** from the Same Language	**2 Credits** from the Same Language
PHYSICAL EDUCATION	**1 Credit** (see course catalog for options)	**1 Credit** (see course catalog for options)
ADDITIONAL COURSES	**5.0 Credits** (see course guide for options)	**4.0 Credits** (see course catalog for options)
TOTAL	**25 CREDITS**	**26 CREDITS** (including 4 credits in a coherent sequence - see endorsement pathways)

Graduation Program Worksheet

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

**Worksheet not intended to represent all possible options for students*

Grading & Grade Point Average

There are two different grade point averages or GPAs that are calculated for each high school student. The unweighted GPA is a traditional GPA based on a 4.0 scale where all courses are counted equally. The GPA for Rank or weighted GPA is based on a 6.0 scale where different courses carry different weights.The state of Texas requires public schools to publish the rank for the top 10% of students in each class. In Texas, students who are in the top 10% of their graduating class receive automatic admission to any public university or college in Texas, with the exception of the University of Texas. Students in the top 6% of their graduating class of 2020 receive automatic admission to the University of Texas.

GPA for Rank

Both the unweighted GPA and the GPA for Rank are posted on a student's transcript. Rank in class, honor graduate status, valedictorian and salutatorian determination shall be based on a weighted GPA system. Grade points shall be based on semester grades for *most* 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 third quarter marking period shall count as a semester grade for purposes of determining rank, honor graduate status, valedictorian, and salutatorian for seniors. Dual credit grades shall not be recorded at the third marking period and the first semester grade will count for purposes of determining rank, honor graduate status, valedictorian, and salutatorian.

Rank in class will only be published for students in the top 10% of their class at the end of each semester. The lowest-weighted GPA of seniors in the top 10 percent, first quartile, second quartile, and third quartile will be published in the Student Portal after each calculation period, so students will know generally where they fall in relation to their peers. Information for juniors, sophomores and freshmen will be published only in January and June.

GPA for Rank Excluded Courses

For the graduating classes of 2020, 2021, 2022, and 2023, all high school credit courses taken during the regular school year shall count toward the unweighted GPA and GPA for Rank except the following:

- Aide positions
- Peer tutoring
- SAT Prep Classes
- College courses that are not approved dual credit courses
- Online or correspondence courses taken outside of the student's schedule
- Driver's Education
- Courses taken during Summer School, unless dual credit (GPA is always recorded for dual credit courses)
- World language courses taken concurrently outside normal school hours
- Credit by Exam/Exam for Acceleration (CBE/EA)

For the class of 2024 and beyond, all high school credit courses taken during the regular school year shall count toward the unweighted GPA and GPA for Rank except the following:

- Aide positions
- Peer tutoring
- SAT Prep Classes
- Driver's Education
- Credit by Exam/Exam for Acceleration (CBE/EA)

Note that neither grade points nor credit will be awarded for summer enrichment programs.
For the Class of 2023 and beyond students taking credit recovery courses online will receive GPA points.

Optional GPA Exclusions (starting with the class of 2021)

In order to encourage commitment and retention to a Fine Arts or Athletics program for a full four years and encourage participation in the upper level courses in these areas, students have the option to exclude from class rank calculation one credit each year in grade 11 and grade 12. This allows juniors and seniors who are on track to meet all graduation requirements to participate in the following programs in the third and/or fourth year on a GPA exempt basis. ***This option should only be considered by students who have a weighted GPA of 5.0 or greater.***

The eligible single courses include:

Theater/Tech Theater	Dance/Drill Team	Athletic Trainer
Band	Color Guard	Athletics/Manager`
Choir	Orchestra	

**Not to include ensemble or Off Campus PE*

To exclude a course from GPA for Rank calculation, students must have two years participation in the single program of interest in two previous school years during high school. Students must complete the "GPA Exempt Form" by April 12, 2019 to request an exemption for the upcoming school year. The exemption form can be found on the student portal under the GPA Opt Out tile. Students may submit his or her exemption by the elective change deadline each spring. Students new to Frisco ISD may submit his or her request up to two weeks after receiving his or her first transcript with calculated GPA.

**The GPA exemption only applies for areas of Fine Arts that do not contain options for weighted credit, thus Art is not an eligible area (Pre-AP and AP Art courses are available in the four-year pathways).*

See Board Policy EIC(LOCAL)

Course Grade Weights

For the classes of 2020, 2021, and 2022, all numeric grades shall be converted to a weighted scale as indicated in the chart below. No grade points shall be awarded for any grade below a 70.

Grade	AP/PreAP/Other designated courses	College Dual Credit/Other designated courses	High School/ On Level
100	6.0	5.5	5.0
99	5.9	5.4	4.9
98	5.8	5.3	4.8
97	5.7	5.2	4.7
96	5.6	5.1	4.6
95	5.5	5.0	4.5
94	5.4	4.9	4.4
93	5.3	4.8	4.3
92	5.2	4.7	4.2
91	5.1	4.6	4.1
90	5.0	4.5	4.0
89	4.9	4.4	3.9
88	4.8	4.3	3.8
87	4.7	4.2	3.7
86	4.6	4.1	3.6
85	4.5	4.0	3.5
84	4.4	3.9	3.4
83	4.3	3.8	3.3
82	4.2	3.7	3.2
81	4.1	3.6	3.1
80	4.0	3.5	3.0
79	3.9	3.4	2.9
78	3.8	3.3	2.8
77	3.7	3.2	2.7
76	3.6	3.1	2.6
75	3.5	3.0	2.5
74	3.4	2.9	2.4
73	3.3	2.8	2.3
72	3.2	2.7	2.2
71	3.1	2.6	2.1
70	3.0	2.5	2.0
Below 70	0	0	0

Course Grade Weights

For the class of 2023 and beyond, all numeric grades shall be converted to a weighted scale as indicated in the chart below. No grade points shall be awarded for any grade below a 70.

Grade	Tier III*	Tier II**	Tier I***
100	6.0	5.5	5.0
99	5.9	5.4	4.9
98	5.8	5.3	4.8
97	5.7	5.2	4.7
96	5.6	5.1	4.6
95	5.5	5.0	4.5
94	5.4	4.9	4.4
93	5.3	4.8	4.3
92	5.2	4.7	4.2
91	5.1	4.6	4.1
90	5.0	4.5	4.0
89	4.9	4.4	3.9
88	4.8	4.3	3.8
87	4.7	4.2	3.7
86	4.6	4.1	3.6
85	4.5	4.0	3.5
84	4.4	3.9	3.4
83	4.3	3.8	3.3
82	4.2	3.7	3.2
81	4.1	3.6	3.1
80	4.0	3.5	3.0
79	3.9	3.4	2.9
78	3.8	3.3	2.8
77	3.7	3.2	2.7
76	3.6	3.1	2.6
75	3.5	3.0	2.5
74	3.4	2.9	2.4
73	3.3	2.8	2.3
72	3.2	2.7	2.2
71	3.1	2.6	2.1
70	3.0	2.5	2.0
Below 70	0	0	0

*Tier III - AP/IB/other designated courses
**Tier II - College Dual Credit/Pre-AP/Other designated courses
***Tier I - High School/On Level

For courses earning two credits, the grade will be counted twice in the GPA and GPA for Rank calculations. The course description will indicate the number of credits in the Course Catalog.

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 nine-weeks marking 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.

Honor Graduates

Each level of Honor Graduates will be determined by the student's grade point average at the end of the 3rd quarter which will be no lower than 4.0 with no rounding. Two levels of Honor Graduates will be denoted: Summa Cum Laude – Top 10 graduates and Magna Cum Laude – Top 10 percent of graduates.

Transfer Students

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. When letter grades are all that is listed on the transcript, the list below will be used to determine the numerical equivalents to letter grades. 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 offering Advanced Placement, International Baccalaureate, or Cambridge curriculum or Department of Defense schools as described below) 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 that offer Advanced Placement, International Baccalaureate, or

Cambridge curriculum as well as the 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.

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 World Languages

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 World Language credit shall be awarded.

Students may be awarded credit for successful completion of concurrent enrollment World Language courses not offered by the district from an accredited school within the United States. The concurrent enrollment World Language 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 World Language courses not offered in Frisco ISD. All World Language programs seeking to be considered for credit must meet specific criteria and be pre-approved by the district World Language Coordinator.

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 nine 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.

UIL Academic Eligibility

In accordance with UIL eligibility policy and the Texas Education Agency, Frisco ISD has determined that any student who takes any advanced level IB or AP course or Pre-AP advanced level course listed below for high school credit will automatically retain UIL eligibility for extracurricular activities, including Athletics, Fine Arts, and Academic competitions regardless of their marking period grade.

Grades earned in dual credit English, mathematics, science, social studies, economics, or a language other than English courses are exempt from the UIL eligibility requirements.

Any student who takes a Pre-AP advanced level course that does not earn high school credit and is listed below will automatically retain UIL eligibility for extracurricular activities, including Athletics, Fine Arts, and Academic competitions, if the grade earned at the first six week UIL eligibility checkpoint, or any subsequent nine week marking period is between a 60%-69%. A student who earns below a 60% at the first six week UIL eligibility checkpoint, or any subsequent nine week marking period will be ineligible to participate in UIL activities until the next opportunity to regain UIL eligibility. The following courses are designated as advanced level courses for the purpose of retaining eligibility:

Middle School Credit Only:
Pre-AP Integrated Language Arts 6, 7, and 8
Pre-AP GT Integrated Language Arts 6, 7, and 8
Pre-AP Math 6, 7, and 8
Pre-AP Science 7 and 8

High School Credit:
Pre-AP Algebra I
Pre-AP Geometry
Pre-AP Algebra II
Pre-AP Pre-Calculus
Pre-AP English I, II
Pre-AP Biology
Pre-AP Chemistry
Pre-AP Spanish II, III
Pre-AP French II, III
Pre-AP Chinese III
Advanced Computer Science

[Frequently Asked Questions for 9-Weeks Grading Periods]

Philosophy of Assessment and Grading

The goal of Frisco ISD's assessment and grading system is to help ensure student mastery of the curriculum. The system exists to communicate student performance to all stakeholders.

1. Assessment: The purpose of assessment is to provide timely and continuous feedback to students and parents in order to track progress, teachers in order to make instructional decisions regarding intervention/extension, and stakeholders in order to make placement/program decisions.

2. Grading: Grades serve as artifacts of learning and communicate what students know and are able to do for a wide variety of audiences, including students, parents, school administrators, post-secondary institutions, and employers. Grades need to be a true reflection of the student's relative level of mastery of content, knowledge, and skills. While grades are a final necessity for certain processes (gpa, rank), grades only represent a student's understanding of a specific topic at a point in time.

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 (9th grader):** A student entering high school for the first time or having fewer than 6 credits will be classified as a 9th grader.
- **Sophomore (10th grader):** A student who has earned a minimum of 6 credits will be classified as a 10th grader.
- **Junior (11th grader):** A student who has earned a minimum of 12 credits will be classified as an 11th grader.
- **Senior (12th grader):** A student who has earned a minimum of 18 credits will be classified as a 12th grader.

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.

Minimum Course Enrollment

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. Late arrival or 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 should be enrolled in eight class periods.

STAAR End of Course Exams (EOCs)

All students in applicable courses 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.

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 HIST 1302 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. Individual Graduation Committees may be convened for students failing to approach grade level on two EOCs.

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 9th 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.

More information on STAAR/EOC at https://tea.texas.gov/student.assessment/staar/

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 postsecondary 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 and the competitive nature of the programs, completing the prerequisites does 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 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	$20
Advanced Fashion Design	$25
Advanced Floral Design	$60
Aerospace Engineering	$20
Agricultural Mechanics	$30
Animation I & II	$25
Audio/Video Production I & II	$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 I & II	$25
Fashion Marketing	$15
Floral Design	$40
Food Science	$25
Graphic Design & Illustration	$25
Health Science	$10 CPR Certification
Health Science Clinical	$200-$300 Certification Exams, Health Screenings
Horticultural Science	$25
Interior Design I & II	$25
Introduction to Culinary Arts	$50 ServSafe Exam, Lab Fees
Journalism/Photojournalism	$50

Law Enforcement	$50, $3 CPR Certification
Medical Microbiology	$50 Lab Supplies
Mock Trial	$10
Pathophysiology	$25 Lab Supplies
Pharmacology	$200-$300 Certification Exams, Health Screenings
PLTW - Pre-Engineering Courses	$5-$10
Practicum in Government	$3 CPR Certification
Practicum in Marketing	$30 DECA Dues (depending on campus)
Sports Management	$30 DECA Dues (depending on campus)
Surv Law, Public Safety, Corrections & Security	$3 CPR Certification
TV Broadcast I & II	$50
Wildlife Management	$25 Hunting Safety Permit

Dual Credit Courses

General Information Regarding Dual Credit

Qualified students may be enrolled 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 is waived for students receiving free or reduced lunch. Transportation is not provided to or from Collin College.

Registration and payment deadlines for dual credit differ from Collin College registration timelines. Students should meet with their school counselor if interested in dual credit and reference http://www.friscoisd.org/departments/dual-credit/home for registration deadlines and application information.

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.

If a student fails a dual credit course with a grade 0-69%, he or she may not remain enrolled in that same subject for dual credit at Collin College. Every effort will be made to enroll the student in the same content area upon return to their home campus the following semester. However, there may be instances where that course is not offered on the campus and the student must complete a different course for graduation. The course may incur a fee if an online course is the only option for either credit recovery or original credit. This is the same process for a student who chooses to drop or withdraw from a course. A student may stay enrolled in dual credit courses for which they are eligible and have not yet received a 0-69% in that subject area. Students who earn 60-69% in a dual credit course will be awarded college credit, but not high school credit. Students will have to either sit in the regular class, if that is an option, or purchase an online alternative to make up the credit. Students receiving a 59% or lower will not receive high school or college credit.

If a student withdraws from a course the same effort will be made to place the student in the same on-level course on campus. However, if the student withdraws without telling their home campus and does not report to school they will need to complete the entire course from the beginning. This may incur a fee if they have to take the course online through The Frisco R.A.I.L. (Reaching All Innovative

Learners, the upcoming Frisco ISD online learning program) or through another approved online provider.

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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 instructors. 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 is eligible to participate?

Students who have completed the 9th grade year, are enrolled in FISD public high school, and who are ready to acquire college credit can participate.

Students must also have permission from the appropriate high school 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 coursework. 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, on-level 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.

Dual credit grades shall not be recorded at the third marking period and first semester grades will count for purposes of determining rank, honor graduate status, valedictorian, and salutatorian.

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 are 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. For a list of current courses, please visit http://www.friscoisd.org/departments/dual-credit/course-offerings

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

Courses are taught by college instructors. Qualifications include a master's degree and 18 hours in the subject area being taught.

10. Why is the some courses 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 is dual credit US HIST 1302 only offered Fall Semester, and students required to take the EOC in December?

HIST 1302 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. HIST 1302 may only be taken in the Fall semester. HIST 1301 may be taken in the Summer prior or the Spring after, however, students are required to take the December EOC exam.

For additional questions please contact your FISD HS home campus counselor or Tiffany Carey at careyt@friscoisd.org

List of Dual Credit Courses Available (non-CTE courses)

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
Calculus for Business & Social Sciences	MATH 1325	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 to 2021 graduates and beyond**

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

Alternative Methods for Earning Credit

All alternative methods of earning credit that are completed during the school day adhere to UIL rules and guidelines as well as the TEA-UIL Side-by-Side (No Pass No Play) academic policies.

Distance Learning & Correspondence for Original Credit

Supplemental coursework should be completed through Frisco ISD programs unless the course is not available. Any distance or correspondence courses must be pre-approved by the campus counselor in order for the student to receive credit. Limited providers are accepted for Frisco ISD credit. Pre-approval guarantees that the appropriate courses are selected for graduation plans.

Courses for credit must be successfully completed in full, and transcripts received, prior to the start of the semester else the student will be enrolled in the appropriate course.

The Frisco R.A.I.L.
(Reaching All Innovative Learners, the upcoming Frisco ISD online learning program)

- Beginning Fall 2019 Frisco ISD will offer online courses for original credit and credit recovery through the Frisco R.A.I.L. For additional information please contact Student Services.

Credit Recovery

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

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 credit acceleration 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.

Credit Through Testing

Students can earn credit in two slightly different ways by taking examinations: Exam for Acceleration (for students without prior instruction) and Credit by Exam (for students with prior instruction). Exam for Acceleration requires a higher average for credit as prior instruction has not been received. After successful completion of a CBE or an EA taken for high school credit, the numerical score earned will be posted to the student's high school transcript and the student will earn high school credit. The transcripted credit will not be calculated into the student's grade point average (GPA) for ranking purposes.

Exam for Acceleration - Without Prior Instruction
High school students who wish to earn credit for a course in which they have had no prior formal instruction may test for credit. Examinations for Grade 9-12 are criterion-referenced tests from Frisco ISD, Texas Tech University, University of Texas, Avant Assessment (all World Language Assessment) 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.

Exams for Acceleration are not offered for courses in which students are currently enrolled and receiving prior instruction. During mid-year windows, such as November and January, students would not be able to receive adequate instruction to gain credit in the subsequent course. The mid-year windows are used for one-semester courses and world languages. Assessment Guidelines online offer additional information.

Applications are available from the school counselor and must be submitted by the parent electronically by the deadline posted on the Frisco ISD website. 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 this method 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 homeschooled or attended a non-accredited private school and need state approved credit. Students who attended school in a foreign country where students were 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 and must be submitted by the parent electronically by the deadline posted on the Frisco ISD website.. 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

Exam Study Guides
Please see the following links for study guides:
Texas Tech University https://www.depts.ttu.edu/ttuisd/cbe_review_sheets.php
University of Texas https://highschool.utexas.edu/cbe_study_guides

What is "Prior Instruction?"
"Prior Instruction" is constituted by

- Course grade on a transcript below 70
- Transcripted credit from a non-accredited organization
- Credit lost due to excessive absences
    - Students that have missed 25% or more days per semester
- Prior instruction may also be considered if a student has attended 90% or more of a semester but was not able to complete in entirety
    - *TEC 25.092 Texas Education Code, Attendance for Course Credit*

- Comprehensive information regarding Credit by Exam and Exam for Acceleration can be found at https://www.friscoisd.org/departments/testing/acceleration-credit-by-exam

See also: EDHB(LOCAL) Board Policy

GENERAL INFORMATION

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 May 1st , by contacting their counselor. After this date, no course changes (including all CTE classes, core classes, and level changes) are allowed. Exceptions that will be allowed are: athletics, band, choir, orchestra, color guard, drill team, and academic decathlon. These must be requested by the 7th school day of the year.

Pre AP/AP® classes may be dropped only at the 6 week mark of a course, or at the end of the semester. AP Seminar (not AP Research) 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.

Middle School PreAP Algebra I Exception

Middle school students who take PreAP Algebra I are allowed to drop the class prior to the beginning of the second nine weeks. The decision to make a schedule change will need to be made between the teacher and parents in the best interest of the student, understanding that these classes will affect the high school GPA (grade point average). All schedule changes must be approved by the Principal of designee. This is the only middle school course that will have an exception.

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).

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.

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.

College Information

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 will be considered alumni after August 1 of their graduating year. Transcripts should be requested at www.parchment.com.

Automatic Admission in Texas: "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 earn 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 / SAT - 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 and www.ACT.org.

Register online at: www.SAT.org 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	440-416		

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.

Advanced Placement and Gifted and Talented

AP® Exam Dates

Advanced placement exams are typically administered the first two weeks of May. Beginning in 2019-2020 school year, exam registration will begin in the fall and the final registration date will be before the end of first semester. Please see the updated dates and guidelines at our website: http://www.friscoisd.org/departments/advanced-academics/advanced-placement

PRE-AP and Advanced Placement Program

Pre-AP (Pre-Advanced Placement) Courses

Pre-AP courses provide motivated students the opportunity to learn course content with increased academic depth and complexity. Pre-AP courses parallel the curriculum offered in an on level class, but may cover additional topics or provide greater depth in certain topics or skills. However, all of the Texas Essential Knowledge and Skills will be covered. Frisco ISD is strongly committed to providing equity and access within the Advanced Academics programming. All pre-AP courses are open enrollment and we encourage any motivated student to take a pre-AP course based on their interests and goals. Pre-AP courses better prepare students for the increased rigor of AP courses.

AP (Advanced Placement) Courses

The AP® Program allows students to participate in rigorous, college level courses while still in high school. AP courses follow the curriculum framework outlined by the College Board and also cover all of the corresponding Texas Essential Knowledge and Skills. At the end of the course, students are encouraged to take the corresponding AP exam that is given in May of each school year. Upon successful completion of an AP® exam, students can earn college credit at most universities and colleges. Students may receive college credit at any public university or college in Texas based on AP exam scores. Students may confirm college credit offered at https://apstudent.collegeboard.org/creditandplacement/search-credit-policies.
Additionally, many selective universities and colleges review AP coursework and exam scores as part of the college admissions process. Frisco ISD is strongly committed to providing equity and access within the Advanced Academics programming. All AP courses are open enrollment and we encourage any motivated student to take an AP course based on their interests and goals. Counselors and current teachers can help students make informed decisions on the appropriate level course work. For more information see: http://www.friscoisd.org/departments/advanced-academics/advanced-placement

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

Pre-AP	Advanced Placement	
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 American Studies (AP US
	GT Humanities II (AP World History)	History & AP English Language
	Chinese Language and Culture	and Composition)

*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. The GT Humanities courses cover world history content over two years and prepare students for the AP World History exam. In 11th grade, students receiving GT services may take double-blocked GT American Studies which provides them AP English Language and Composition and AP US History credit and prepares them for the corresponding AP exams. 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. http://www.friscoisd.org/departments/gifted-education/home

International Baccalaureate (IB)

Frisco ISD is undergoing the authorization process in order to implement the International Baccalaureate (IB) Diploma Programme (DP) starting with the Class of 2023. The IB Diploma Programme is a rigorous, college preparatory program that includes high level coursework in six different subject areas and additional IB components that students complete in the 11th and 12thgrades. The district-wide program is available to students in all attendance zones within the

district and will be housed at Frisco High School. Each fall, the Advanced Academics department will host informational nights prior to start of the admissions process. If there is more student interest than spots available in the program, a lottery system will be utilized to select students. Students who are selected for the IB Diploma Programme will transfer to FHS in the 9th grade. To learn more about the IB Diploma Programme, visit www.ibo.org or contact the FHS IB Coordinator.

Additional Student Fees by Course

Course	Use of Fee	Amount
TV Broadcast I & II	tripods, SD cards, microphones	$50
Video Tech	tripods, SD cards, microphones	$50
Photojournalism	cameras, SD cards, printing	$50
Teen Leadership I & II	Ropes Course	$35 - not required of students that do not attend
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 1	Supply Fee	$40-$50
Pre AP Art 1	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 (supply fee)/ $35 (matting fee)
AP Studio Art 2D Design	Supply Fee/Matting Fee	$60-$70 (supply fee)/ $35 (matting fee)
AP Studio 3D	Supply Fee	$70-$80
Theatre Arts I	Supply Fee	$35
Theatre Arts II	Supply Fee	$35
Theatre Arts III-IV	Supply Fee	$35
Intermediate Theatre Arts I	Supply Fee	$35
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 Course Fees

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

Using the Course Catalog:

1st, 2nd, 3rd, 4th Credit Options

For ease of use, the catalog has been divided into sections of the most common courses needed by class. This should be seen as a feature to make the Catalog easier to navigate and less overwhelming, and not a substitute for prerequisite/grade level.

Prerequisites and Grade Levels

Please note grade and prerequisites with each course description. All prerequisites listed must be met and passed prior to beginning a course. Grade levels listed with each course serve as a guide to appropriate course sequence, though some courses do have a required age or grade level. Counselor approval is necessary to take courses outside of the grade level designation.

Committee Recommendation Courses

Frisco ISD provides leveled versions of academic courses and electives to meet the programming and curriculum needs of all students within our district. With the exception of our dual credit, advanced, and college preparation courses, all on-level academic courses described within this guide are linked with Principles and Applied versions of the courses. The Principles courses are based on content learning standards directly related to the course TEKS, modified for the student access to the curriculum. The Applied courses are based on prerequisite skills to the TEKS based learning standards. Applied courses are designed to focus on the critical need areas for functional academics and real-world application to the student's individualized needs. Student access and placement in an Applied or Principles course is met through an ARD committee meeting decision and agreement. The Principles and Applied courses carry the same graduation credit and pre-requisites as their on-level counterparts.

English Language Arts Courses

1st English Credit Options

English I - (1 credit)
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)
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.

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

English for Speakers of Other Languages ESOL I - (1 credit)
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.

2nd English Credit Options

English II - (1 credit)
Prerequisite: English I or equivalent
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.

Pre AP English II - (1 credit)
Prerequisite: English I or equivalent
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.

GT Humanities II / AP World History - (1 credit)
Prerequisite: Identification/Selection as Gifted/Talented & GT Humanities I
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 on-level 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. 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.**

English for Speakers of Other Languages ESOL II - (1 credit)
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 expectations 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.

3rd English Credit Options

English III - (1 credit)
Prerequisite: English II or equivalent
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.

AP Language and Composition - (1 credit)
Prerequisite: English II or equivalent
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.

GT American Studies - (2 credits)
Prerequisite: English II or equivalent and Identification/Selection as Gifted/Talented
GT American Studies combines AP Language and Composition with AP U.S. History through an interdisciplinary integration of curriculum which allows for deeper connections between the two AP courses. The course is a study of the development of United States through the integration of history, composition, literature, writing, art, architecture, philosophy, music, and theater. The course focuses on the philosophical foundation of American thought while exploring themes of progression, reconstruction, conflict, human rights, migration, perspective, and change. GT American Studies integrates two Advanced Placement courses; therefore, the class is double blocked over the A day/B day time block. Students will take the End of Course Exam for U.S. History. Students are also strongly encouraged to take the Advanced Placement exams for Language and Composition and U.S. History

4th English Credit Options

English IV - (1 credit)
Prerequisite: English III or equivalent
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.

AP Literature and Composition - (1 credit)
Prerequisite: English III or equivalent
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 only
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. There are not Principles or Applied courses for College Readiness courses.

Dual Credit English Credit Options (3rd and 4th English Credit)

Dual Credit English (III or IV): ENGL 1301 Composition I – (1/2 credit)
11th-12th grade
Prerequisite: English II (when replacing English III) or III (when replacing English IV) 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 11th graders intending to take ENGL 2332 and ENGL 2333 in the 12th grade year) or English IV (for 12th graders). It should be paired with ENGL 1302 in the second semester to grant a full credit of high school English. Please note that 11th graders taking ENGL 1301 and 1302 to complete the 3rd English Credit *must plan to take* ENGL 2332 and ENGL 2333 to complete the fourth English credit).

Dual Credit English (III or IV): ENGL 1302 Composition II – (1/2 credit)
11th-12th grade
Prerequisite: ENGL 1301, 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 11th graders intending to take ENGL 2332 and ENGL 2333 in the 12th grade year) or English IV (for 12th graders). 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
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
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.

English Electives and Support Courses for English Skills

Creative and Imaginative Writing - (1/2 credit)
Prerequisite: English I or equivalent
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 multimedia, 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.

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.

Practical Writing Skills – (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)
Prerequisite: Counselor Recommendation
Reading is a course for 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.

Debate and Competitive Speech Courses

Debate I-III - (1 credit)
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. Starting with the class of 2021, this course satisfies the high school speech credit requirement.

Oral Interpretation - (1 credit)
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 credit)
Prerequisite: Debate I and II
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. Starting with the class of 2021, this course satisfies the high school speech credit requirement.

Journalism and Broadcast Courses

Journalism I - (1 credit)
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. *Materials fee may be required for this course. This course can be used to satisfy the technology applications credit.*

Newspaper I - (1 credit)
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 can be used to satisfy the technology applications credit.*

Advanced Journalism/Newspaper II-III – (1 credit)
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 count as a technology applications course.

Yearbook I - (1 credit)
Prerequisite: Photojournalism or Journalism & Instructor Approval (application required)
Yearbook 1 is a course that teaches students about all phases of yearbook production. Students will learn about theme development, yearbook organization, reporting and writing, photojournalism, design, financial planning, meeting deadlines, and distribution. Students will be required to cover both in and out of school events through photography and reporting assignments. Students enrolled in this course are responsible for producing the school's yearbook and contributing to other student media. *This course can be used to satisfy the technology applications credit.*

Advanced Journalism/Yearbook II-III - (1 credit)
Prerequisite: Yearbook I/II and Instructor Approval (application required)
Yearbook 2 and 3 continues the skill development started in Yearbook 1 as students work as staff members or move into leadership roles. Students will be required to cover both in and out of school events through photography and reporting assignments. Students enrolled in this course are

responsible for producing the school's yearbook and contributing to other student media. *This course can be used to satisfy the technology applications credit.*

Independent Study in Journalism - (1/2-1 credit)
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)
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 can be used to satisfy the technology applications credit. Materials fee required for this course.*

TV Broadcast I - (1 credit)
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. *This course can be used to satisfy the technology applications credit. Materials fee may be required.*

TV Broadcast ll - (1 credit)
Prerequisite: TV Broadcast I and Teacher Recommendation
Students in TV Broadcast ll will collaborate with the Broadcast lll 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 count as a technology applications course. *Materials fee required for this course.*

TV Broadcast lll - (1 credit)
Prerequisite: TV Broadcast ll 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 count as a technology applications course. *Materials fee required for this course.*

Sports Broadcast I - (1 Credit), CTEC
11th – 12th grade
Prerequisite TV Broadcast l or Teacher Permission via Sports Broadcast Club Participation
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 Broadcast II - (1 Credit), CTEC
12th grade
Prerequisite: Sports Broadcast I or Teacher Recommendation via Sports Broadcast Club Participation
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.

Video Technology - (1 credit)
Prerequisite: TV Broadcast ll 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. *A materials fee may be required for this course. This course can be used to satisfy the technology applications credit.*

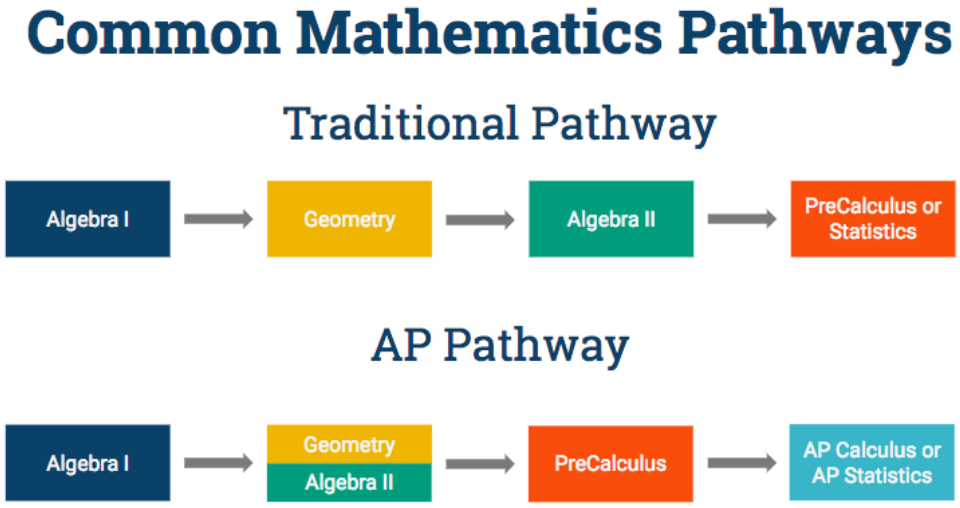
Mathematics Courses

Math pathways do not follow a set sequence. The graphic below represents two common pathways for students in Frisco ISD, however, multiple options are possible based on student need and completion of prerequisite courses.

Calculators

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.

Note: Math course pathways can be complex decisions for students. For your reference, we are providing two common pathways that our students choose. Not all courses are represented on these diagrams, and not all students will be well served by these pathways. There are many factors involved in students' course decisions and counselors and math teachers are you best source of guidance. These pathways are for reference purposes only.



1st Math Credit Options (8th grade Math Prerequisite)

Algebra I - (1 credit)

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)
Prerequisite: 8th Grade Math
Pre-AP Algebra I students will expand on concepts covered in on-level 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.

2nd Math Credit Options (Algebra I Prerequisite)

Geometry - (1 credit)
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)
Prerequisite: Algebra I
Pre-AP Geometry students will expand on concepts covered in on-level 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.

Algebraic Reasoning - (1 credit)
Prerequisite: Algebra I
In Algebraic Reasoning, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I, continue with the development of mathematical reasoning related to algebraic understandings and processes, and deepen a foundation for studies in subsequent mathematics courses. Students will broaden their knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build to workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets. *Students who may be candidates for athletic scholarships should be advised that this course may not meet minimum core requirements under NCAA guidelines.*

Notes on sequence of math courses:

- *Algebra II may be taken concurrently with Geometry to allow for Calculus the 12th grade year.*
- *Depending on the student's' needs, Algebraic Reasoning may be taken before, after, or concurrently with geometry.*

3rd Math Credit Options

Algebra II - (1 credit)
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)
Prerequisite: Algebra I
Pre-AP Algebra II expands on the concepts covered in on-level 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.

Algebraic Reasoning - (1 credit)
Prerequisite: Algebra I
In Algebraic Reasoning, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I, continue with the development of mathematical reasoning related to algebraic understandings and processes, and deepen a foundation for studies in subsequent mathematics courses. Students will broaden their knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build to workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets. *Students who may be candidates for athletic scholarships should be advised that this course may not meet minimum core requirements under NCAA guidelines.*

4th Math Credit and Beyond Options (including Dual Credit Math Options)

Algebra II - (1 credit)
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)
Prerequisite: Algebra I
Pre-AP Algebra II expands on the concepts covered in on-level 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.

Algebra II Prerequisite
Statistics - (1 credit)
Prerequisite: Algebra II or concurrent enrollment in Algebra II
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)
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)
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)
Prerequisite: Geometry and Algebra II
Pre-AP Pre-Calculus expands on the concepts covered in on-level 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.

Dual Credit Math: MATH 1314 College Algebra - (1/2 credit)
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.

Dual Credit Math: MATH 1316 Plane Trigonometry - (1/2 credit)
Prerequisite: 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. This course may qualify as 1/2 of the 4th high school, math credit as well as 3 college credit hours.

Dual Credit Math: MATH 1342 Elementary Statistical Methods – (1/2 credit)
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. 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)
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 as well as 3 college credit hours.

Dual Credit Math: MATH 2412 Pre-Calculus Math – (1/2 credit)
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 course may qualify as 1/2 of the 4th high school math credit.

Advanced Math Course Options

AP Calculus AB - (1 credit)
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. A*P Calculus AB is not a prerequisite to AP Calculus BC. AP Calculus AB is a college level course.*

AP Calculus BC - (1 credit)
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)
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 2413 Calculus I – (1/2 credit)
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 credit course may qualify as 1/2 of the 4th high school, math credit as well as 3 college credit hours.

Math Supplemental Course

Mathematics Lab - (1/2 to 1 credit)
Prerequisite: Teacher recommendation
This course is a supplement to the student's 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; can be the 4th math 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. Note that not completing Algebra II prevents a student from graduating with the Distinguished Level of Achievement. Principles and Applied sections are not available for College Readiness courses.

Science Courses

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

1st Science Credit Courses

Biology - (1 credit)
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.

Pre-AP Biology - (1 credit)
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.

2nd Science Credit Courses

Chemistry - (1 credit)
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).

Pre-AP Chemistry - (1 credit)
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.

Integrated Physics and Chemistry (IPC) - (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.

3rd Science Credit Courses (Most Commonly)

Physics - (1 credit)
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)
Prerequisite: Geometry
Co-requisite: Algebra II (required) / Pre-Calculus (recommended) Prerequisite note: Students who have completed a year of 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.*

4th Science Credits and Additional Science Electives

Most of these courses would be taken as a fourth year science; however, they are available in earlier grade levels, dependent on completion of prerequisites and counselor advising based on an individual student's graduation program and goals. Many students take two science courses in a single year.

Science + CTE Credit Courses

Advanced Animal Science (1 credit, *CTE*)
12th grade
Prerequisites: 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. T**his 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.*

Anatomy and Physiology - (1 credit)
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.

Food Science (1 credit, *CTE*)
12th grade
Prerequisites: 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
Prerequisites: 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.*

Medical Microbiology - (1 credit, *CTE*)
11th –12th grade
Prerequisites: 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 students who are particularly interested in a health-related career track or for the students who are interested in the biological sciences. *Materials fee are required for this course. This course may qualify as a science credit.*

Pathophysiology - (1 credit, *CTE*)
11th –12th grade
Prerequisites: 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.*

AP Science Courses

AP Biology - (1 credit)
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.*

AP Chemistry - (1 credit)
Prerequisites: 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/pre-medical/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.*

AP Physics 2 - (1 credit)
Prerequisite: Physics or AP Physics 1
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)
Prerequisites: Physics or AP Physics 1 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.*

AP Environmental Science (1 credit)
Prerequisites: 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.*

Dual Credit Science Courses
Dual Credit Science: BIOL 1406 Biology for Science Majors I - (1/2 credit)
11-12th grade
Prerequisites: Biology and Chemistry and 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)
11-12th 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. 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)
11-12th grade
Prerequisites: Biology and Chemistry and 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)
11-12th 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.

Other Science Electives
Anatomy and Physiology - See Science + CTE Electives

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.

Astronomy – (1 credit)
11th-12th grade
Prerequisite: Three units of science (3rd science credit may be taken concurrently)
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.

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.

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 principles 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.

Social Studies Courses

1st Social Studies Credit Options

World Geography - (1 credit)
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.

AP Human Geography - (1 credit)
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.

2nd Social Studies Credit Options

World History Studies - (1 credit)
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.

AP World History - (1 credit)
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 II / AP World History - (1 credit)
Prerequisite: Identification / Selection as Gifted/Talented and GT Humanities I
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 on-level 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.*

3rd Social Studies Credit Options

United States History - (1 credit)
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.

AP U.S. History - (1 credit)
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 on-level 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 then 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..

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 either paired with HIST 1301. HIST 1302 is always taken in the Fall Semester, while 1301 would be completed the previous summer or following Spring. 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. Students have the option to either take 1301 in the Summer or in the Spring, not Fall. Students taking dual credit US History are required to take the Texas End of Course Exam (EOC) for US History in the December testing administration.

4th Social Studies Credit Options

U.S. Government - (1/2 credit)
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. US Government is typically paired with Economics for a full credit.

AP U.S. Government - (1/2 credit)
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)
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 Government is typically paired with Dual Credit Economics for a full year credit.

Economics - (1/2 credit)
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. Economics is typically paired US Government with for a full credit.

AP Macroeconomics - (1/2 credit)
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 course fulfills the graduation requirements of Economics. This is a college level course.

Dual Credit Economics: ECON 2302 Principles of Microeconomics – (1/2 credit)
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. 3 credit hours. This course fulfills the high school requirement for Economics.

Social Studies Electives

Advanced Placement Social Studies Electives

AP European History - (1 credit)
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.

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: As of 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 Social Studies Electives

Dual Credit Elective: GOVT 2306 Texas Government – (1/2 credit)
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 and is mandatory if working towards an Associates degree.

Dual Credit Elective: SOCI 1301 Introduction to Sociology (1/2 credit)
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: 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. This course is a requirement to earn an Associate's degree.

Other Social Studies Electives

Personal Financial Literacy - (1/2 credit)
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.

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 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. Starting with the class of 2021, this course will satisfy the high school speech credit requirement.

AP Research Course - (1 credit)
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©. The Exam Fee for this course $142. For further information, please consult the College Board Website: https://lp.collegeboard.org/ap-capstonehttps://lp.collegeboard.org/ap-capstone

Fine Arts Courses

Art

Art I - (1 credit)
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)
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)
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 year long 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)
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)
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)
Prerequisite: Art II/III
Art III and IV are intensive year long 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)
Recommended Prerequisite: Pre AP Art I or Pre AP Art II
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 Range of Approaches, Sustained Investigation and Selected Works. 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 nine weeks. If possible, students should take AP Art with an on-level Art III/IV class to allow for enough time to complete the portfolio requirements submitted to College Board. 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)
Prerequisites: Pre AP Art I or Pre AP 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. Both portfolios require actual examples and electronic submissions of student artwork within a structure of Range of Approaches, Sustained Investigation and Selected Works. 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 on-level Art III/IV class to allow for enough time to complete the portfolio requirements submitted to College Board. 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)
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. Both portfolios require actual examples and electronic submissions of student artwork within a three-section structure of Range of Approaches, Sustained Investigation and Selected Works. 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. If possible, students should take AP Art with a on-level Art class to allow for enough time to complete the portfolio requirements submitted to College Board.

Floral Design - (1 credit)
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)
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)
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)
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)
Prerequisite: Music Theory I or 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)
Prerequisite: Audition and 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)
Prerequisite: Audition and teacher recommendation
Orchestra is a 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)
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)
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)
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 determined by the program director. Some required aspects of this course may occur outside of the school day.

Intermediate Theatre Arts I - (1 credit)
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. Some required aspects of this course may occur outside of the school day. Please check with the campus program director for enrollment details pertaining to this class. Students are required to purchase a specific list of supplies determined by the program director.

Theatre Arts II - (1 credit)
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. Some required aspects of this course may occur outside of the school day. Students are required to purchase a specific list of supplies determined by the program director.

Theatre Arts III - IV - (1 credit)
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. Some required aspects of this course may occur outside of the school day. Students are required to purchase a specific list of supplies determined by the program director.

Technical Theatre I - (1 credit)
Prerequisite: None
Technical Theatre I general areas of study include, but are not exclusive to the following: principles of costume, makeup, 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.

Intermediate Technical Theatre I - (1 credit)
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. Some required aspects of this course may occur outside of the school day. Students are required to purchase a specific list of supplies determined by the program director. Please check with the campus program director for enrollment details pertaining to this class.

Technical Theatre II - (1 credit)
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. Some required aspects of this course may occur outside of the school day. Students are required to purchase a specific list of supplies determined by the program director.

Technical Theatre III-IV - (1 credit)
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. Some required aspects of this course may occur outside of the school day. Students are required to purchase a specific list of supplies determined by the program director.

Theatre Production I-IV - (1 credit)
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. Please check with the program director for more information and to see if this option is available at the campus where you are assigned.

Dance

Dance I – Fundamentals - (1 credit)
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)
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)
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)
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)
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)
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)
Prerequisite: Audition and Teacher Recommendation
Color Guard is a full year course concentrating on the continued development of fundamental marching rifle and flag, and other equipment 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)
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)
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)
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)
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)
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)
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.

French I - (1 credit)
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)
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)
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)
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)
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)
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)
Prerequisite: none
Chinese I is offered in an online 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)
Prerequisite: Chinese I
Chinese II is offered in an online 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)
Prerequisite: Chinese II
Chinese III Pre-AP is offered in an online 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)
Prerequisite: Chinese III
Chinese IV AP is offered in an online 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)
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)
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

PE Credit

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

Note: Students are required to have 1.0 credit of physical education to meet high school graduation requirements. Students will select 2 of the following courses to satisfy the PE requirement. 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)*

PE Credit 1/2 credit

The following 3 courses are each a semester in length and cannot be repeated for credit once successfully completed.

Foundations of Personal Fitness - (1/2 credit)
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 Activity -(1/2 credit)
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 - (1/2 credit)
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.

PE Credit - 1.0

The following 2 courses are each a year in length and once a student starts in the course, must complete the entire year in the same course for 1.0 credit.

Partner's PE - (1 credit)
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.

Adventure/Outdoor Education (1 credit)
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 and Athletic Trainer Courses

Health Education - (1/2 credit)
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.

Student Athletic Trainer - (1 credit)
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.

Teen Leadership and Academic Decathlon

Teen Leadership I - (1/2 credit)
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)
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)
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. Students that take this course for three years will earn local credit for the third year, which is excluded from GPA calculation. *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 credit,

Other Elective Courses

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 specialist.

Independent Study and Mentorship Program

Independent Study and Mentorship Program - (1 credit)
11th – 12th grade
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. For students interested in the health field: updated immunizations, current TB tests, a current flu vaccine, drug screen, background check, and HIPAA training are required. (Additional requirements may be necessary for certain clinics/hospitals). See the counseling office for more information.

Competitive Sports Information

FISD offers the following competitive sports:

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

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

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 (11-12)
Introduction to Welding (11-12)
Practicum in Ag Structures & Equipment (12)

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)

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)

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

Education & Training

Survey of Education & Training (9-12)
Child Development (10-12)
Child Guidance (11-12)
Education and Training (11-12)
Interpersonal Studies (9-12)
Practicum in Child Guidance (12)
Practicum in Education and Training (12)

Finance

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

Health Science

Medical Terminology (9-12)
Anatomy & Physiology (10-12)
Health Science (10-12)
Health Science Clinical (11-12)
Future Ready Health Care (11-12)
Medical Microbiology (11-12)
Pathophysiology (11-12)
Pharmacology (12)
Electrocardiography (12)
Emergency Medical Technician (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)
Dual Credit Baking and Pastry (12)
Food Science (12)

Human Services

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

Information Technology

Survey of Information Technology (9-12)
Computer Maintenance (9-12)
Cybersecurity (10-12)
Digital Media (9-12)
Networking (10-12)
Internetworking I (11-12)
Internetworking 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)

Manufacturing

Introduction to Welding (11-12)

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)
Practicum in Marketing I (11-12)
Practicum in Marketing II (12)
Sports Management (12)

Science, Technology, Engineering & Mathematics

Introduction to Engineering Design (9-12)
Principles of Engineering (10-12)
Civil Engineering and Architecture (10-12)
Digital Electronics (11-12)
Aerospace Engineering (11-12)
Engineering Design & Development (12)
Computer Science (9-12)
Pre-AP Computer Science (9-12)
AP Computer Science (10-12)
Advanced Computer Science (11-12)
Mobile Application Programming (10-12)
Video Game Programming (10-12)
Advanced Video Game Programming (11-12)

Transportation, Distribution & Logistics

Dual Credit Courses through LeTourneau University Aviation Dual Credit Program

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. *Fee for certification may be required.*

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 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)
12th 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 Veterinary 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 / 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 turfgrass 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.

Agriculture 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 metalworking 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 can be used to satisfy the 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. This course can be used to satisfy the technology applications credit.*

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. This course can be used to satisfy the technology applications credit.*

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 communication, listening, group communication, public speaking, 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 can be used to satisfy the 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. Students will be introduced to common Web Standards set forth by the World Wide Web Consortium. Topics include Hypertext Markup Language and Cascading Style Sheets. This course emphasizes the important role standards play in Website development. A working knowledge of the Adobe Photoshop is required for this course per the prerequisite. This course is project based, students must be self-motivated and willing to put in the time and effort necessary to complete projects. *This course can be used to satisfy the technology applications credit.*

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.

Graphic Design & Illustration

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 can be used to satisfy the 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.

Students will be introduced to common Web Standards set forth by the World Wide Web Consortium. Topics include Hypertext Markup Language and Cascading Style Sheets. This course emphasizes the important role standards play in Website development. A working knowledge of the Adobe Photoshop is required for this course per the prerequisite. This course is project based, students must be self-motivated and willing to put in the time and effort necessary to complete projects. *This course can be used to satisfy the technology applications credit.*

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. Adobe InDesign is introduced in the course. *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.*

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)
1th –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.*

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.

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.

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 Office software. These skills will assist students in making a successful transition to the postsecondary education and the workforce. *This course can be used to satisfy the 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 Office and Google 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.

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. Students must provide their own transportation to and from the off-campus field sites.*

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. Students must provide their own transportation to and from the off-campus field sites.*

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
This course uses an integrated approach to teach accounting. Students first learn how businesses plan for and evaluate their operating, financing and investing decisions and then how accounting systems gather and provide data to internal and external decisions makers. This year-long course covers all the learning objectives of a traditional college level financial accounting course, plus those from a managerial accounting course. Topics include an introduction to accounting, accounting information systems, time value of money, and accounting for merchandising firms, sales and receivables, fixed assets, debt and equity. Other topics include statement of cash flows, financial ratios, cost-volume profit analysis and variance analysis. *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 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 or Corequisite: Accounting II or 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.

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 or 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.*

Foreign Services 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.

Practicum in Government - (2 credits) (CTEC)
12th grade
Prerequisite: Mock Trial, Program Qualification Form Required
Seniors during 2019-20 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

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.

Anatomy & Physiology - This course is taken at the home campus. See description under Science course offerings.

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, plus fee for certification.*

Health Science Clinical - (2 credits) (CTEC)
11th –12th grade
Prerequisite: Health Science AND Co/Prerequisite Anatomy & Physiology, Program Qualification Form Required
Collin College Dual Credit – (Fall semester only) – NURA 1301& NURA 1160 (This is a year-long class but weighted credit is only awarded during the Fall semester. Spring semester is a Regular high school weighted course.) 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, plus fees for certification exams. Students must provide their own transportation to and from off-campus sites.*

Future Ready Health Care - (1 credit) (CTEC and Baylor Scott & White Frisco)
11th –12th grade
Prerequisite: Health Science AND Co/Prerequisite Anatomy & Physiology, Program Qualification Form Required
Seats are limited. Students must provide their own transportation to and from off-campus sites.
This course is designed to expose students to the various careers associated with the medical profession and how digital technologies are integrated into the traditional hospital setting. The course will challenge students to solve some of the complexities in what future health care may entail. Students will be exposed to emerging technologies such as 3D printing for surgeries, robotic process automation, virtual reality, biomedical testing/repair, prosthetics and artificial intelligence to improve the patient experience. Collaboration, the ability to think creatively and critically resulting in a culminating innovative project will be the crux of this course.

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 students who are particularly interested in a health-related career track or for the students who are interested in the biological sciences. *Materials fee are 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 effects 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.*

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 a Certified Pharmacy Technician. They will develop an understanding of pharmaceutics 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 exam. In addition, students will have the opportunity to sit for the Pharmacy Technician Certification Exam (PTCE) once they successfully complete the course. Students will be required participate in a clinical rotation with retail and hospital pharmacies. Immunization records, TB test, flu shot and two drug screens are required. Students must have a Social Security # to participate in this course. *Materials fee ranging from $125-$150, plus testing fees for certification exams. 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, plus testing fees for certification exams. 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. *Testing fees for certification exams.*

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.*

Cybersecurity - (1 credit) (CTEC)
10th - 12th grade
Prerequisites: 10th grader and completed one year of Computer Science. Computer Maintenance is recommended but not required
This course develops the knowledge and skills needed to master fundamental concepts of cybersecurity. Students in the course will develop a basic foundation for continuing their cybersecurity education and choosing a career in the cybersecurity field. Students will explore the challenges facing information security professionals related to ethics, system security, network security, and application security. Students will conduct risk assessments and develop and implement security policies to mitigate those risks. Students will examine trends in cyber-attacks, common vulnerabilities, and the emergence of cyber terrorism.

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 can be used to satisfy the 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. *This course can be used to satisfy the technology applications credit.*

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.*

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 can be used to satisfy the 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 can be used to satisfy the technology applications credit.*

AP Computer Science - (2 credits)
10th –12th grade
Prerequisite: PAP Computer Science or 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 qualifies as a math credit in the first semester and a world language credit in the second semester. This is a single blocked course.

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. Students in this course will receive the same weighted GPA as all AP Courses.

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 Programming - (1 credit) (CTEC)
10th –12th grade
Prerequisite: Computer Science, PAP Computer Science or AP Computer Science
This course is a rigorous introduction to video game programming – students must have mastered the topics previously covered in Computer Science. Students will extend their knowledge and skill in programming through the study of game topics including: game state and the game loop, basic display and interaction of on-screen objects, object-oriented programming concepts, user interface design, and 2D game techniques. Students will program using the C# language; development environments may include Visual Studio, XNA, MonoGame, and Unity. Our primary game platform will be the PC; some students may program for other platforms. Significant group projects will expose students to the challenges of working in teams and develop project management & interpersonal skills.

Advanced Video Game Programming - (1 credit) (CTEC)
11th –12th grade
Prerequisite: Video Game Programming
This course continues the study of video game programming. Using languages such as C# and C++, and advanced game engines such as Unity and Unreal, students will be introduced to 3D game development. Topics will include: object-oriented programming; program architecture; integrating code, art assets, and level/scene design into a complete game. During the spring semester, students will form a studio team with Animation students to develop a video game. This major project will expose students to the challenges of working in interdisciplinary 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. *Fee for CPR certification may be required.*

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

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.

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.

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.*

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. *Fees for DECA dues may be required*. *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. *Fees for DECA dues may be required. 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, Professional Communications OR BIM
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, Recreational Sports 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 may be 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 can be used to satisfy the 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 - Civil Engineering & Architecture - (1 credit) (CTEC)
11th –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 - 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 - 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.
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 AND may also be taken at the Collin College McKinney campus:

NURA 1301 Nurse Aide for Health Care
11th-12th grade
FISD Prerequisite: Health Science, Program Qualification Form Required, Collin College Dual Credit Enrollment Required
Knowledge, skills, and abilities essential to provide basic care to residents of long-term care facilities. Topics include resident's rights, communication, safety, observation, reporting and assisting residents in maintaining basic comfort and safety. Emphasis is on effective interaction with members of the health care team, restorative services, mental health, and social service's needs. Lab required. 3 credit hours.

NURA 1160 Clinical-Nursing Aide and Patient Care Assistant
11^{th}-12^{th} 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, Collin College Dual Credit Enrollment 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. 3 credit hours.
RSTO 2307 Catering
FISD Prerequisite: Culinary Arts, Program Qualification Form Required, Collin College Dual Credit Enrollment 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: 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 Healthcare 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 though 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

Dual Credit offerings are listed under both the related content and dual credit sections.

Dual Credit English

Dual Credit English (III or IV): ENGL 1301 Composition I – (1/2 credit)
11th-12th grade
Prerequisite: English II (when replacing English III) or III (when replacing English IV) 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 11th graders intending to take ENGL 2332 and ENGL 2333 in the 12th grade year) or English IV (for 12th graders). It should be paired with ENGL 1302 in the second semester to grant a full credit of high school English. Please note that 11th graders taking ENGL 1301 and 1302 to complete the 3rd English Credit *must plan to take* ENGL 2332 and ENGL 2333 to complete the fourth English credit).

Dual Credit English (III or IV): ENGL 1302 Composition II – (1/2 credit)
11th-12th grade
Prerequisite: ENGL 1301, 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 11th graders intending to take ENGL 2332 and ENGL 2333 in the 12th grade year) or English IV (for 12th graders). 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
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
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 Social Studies

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 either paired with HIST 1301. HIST 1302 is always taken in the Fall Semester, while 1301 would be completed the previous summer or following Spring. 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. Students have the option to either take 1301 in the Summer or in the Spring, not Fall. Students taking dual credit US History are required to take the Texas End of Course Exam (EOC) for US History in the December testing administration.

Dual Credit Government: GOVT 2305 Federal Government (1/2 credit)
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 Government is typically paired with Dual Credit Economics for a full year credit.

Dual Credit Elective: GOVT 2306 Texas Government – (1/2 credit)
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 and is mandatory if working towards an Associates degree.

Dual Credit Economics: ECON 2302 Principles of Microeconomics – (1/2 credit)
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. 3 credit hours. This course fulfills the high school requirement for Economics.

Dual Credit Math

Dual Credit Math: MATH 1314 College Algebra - (1/2 credit)
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.

Dual Credit Math: MATH 1316 Plane Trigonometry - (1/2 credit)
Prerequisite: 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. This course may qualify as 1/2 of the 4th high school, math credit as well as 3 college credit hours.

Dual Credit Math: MATH 1342 Elementary Statistical Methods – (1/2 credit)
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. 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)
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 as well as 3 college credit hours.

Dual Credit Math: MATH 2412 Pre-Calculus Math – (1/2 credit)
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 course may qualify as 1/2 of the 4th high school math credit.

Dual Credit Math: MATH 2413 Calculus I – (1/2 credit)
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 credit course may qualify as 1/2 of the 4th high school, math credit as well as 3 college 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)
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.

SOCI 1301 Introduction to Sociology – (1/2 credit)
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.

ARTS 1301 – Art Appreciation (1/2 credit)
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 required second-semester course pairing.

Dual Credit Speech: SPCH 1311 Introduction to Speech – (1/2 credit)
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.

Dual Credit CTE Courses are also available. *Click here for CTE dual credit course offerings.*

Options for Speech and Technology Credit

Speech Credit

The required speech credit may be earned through the following Frisco ISD courses:

- Professional Communications
- Dual Credit Introduction to Speech
- Debate I, II, or III (starting with class of 2021)
- Advanced Public Speaking; 4th year of Debate (starting with class of 2021)
- AP Seminar (starting with class of 2021)
- Communication Applications (online/summer)

Technology Credit

The required technology credit may be earned through the following Frisco ISD courses:

- 3D Modeling & Animation (Digital Graphics & Animation)
- Architectural Design I
- Architecture & Construction I
- TV Broadcast or Video Tech
- Photojournalism
- Business Information Management I or II
- Computer Maintenance
- Computer Science or PAP Computer Science
- Networking
- Digital Media (Digital & Interactive Media)
- Journalism
- Newspaper
- Web Technologies
- Yearbook I; Advanced Journalism/Yearbook II-III
- PLTW - Intro to Engineering Design
- Architecture and Construction II
- Advanced Computer Science