

FISD High School COURSE CATALOG

2016-
2017



— LOGO —
PLACEHOLDER



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Frisco ISD Mission Statement

Our mission is know every student by name and need.

Belief System

Education is a shared responsibility of students, school, home and community. With that as an essential principle, we believe that:

Every person can learn.

Each person is ultimately responsible for his/her own learning.

Learning is lifelong and unlimited.

Each person is unique.

Everyone has equal inherent worth and deserves to be treated with respect and dignity.

Everyone needs challenge and encouragement.

Imagination and creativity are vital.

Integrity is essential.

A safe and orderly environment is necessary for learning.

Meaningful relationships have profound lifelong impact.

There is always room for improvement.

INTRODUCTION

The Course Catalog has been developed to provide important information for students and their parents. It will assist you in making wise, informed decisions concerning programs and course choices throughout your high school years.

The Frisco Independent School District Course Guide 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 scheduled every year and also that not all courses are offered at every high school. Since it is not economically feasible to schedule classes in which only a few students enroll, the class may not be offered for the current school-year. Sufficient numbers of student requests for specific courses then become the determining factor as to whether or not a course is scheduled. Please refer to the counseling office at your respective high school for a list of available course offerings.

If a course is listed in the Prerequisite section, students must successfully pass the prerequisite course before enrolling in the identified course. All course offerings are subject to change. Funding levels and student interest may affect whether or not an offering is available

DISCRIMINATION DISCLAIMER

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.

At the time this document went to print the Texas State Board of Education and Texas Education Agency had not made final decisions on all aspects of the New Graduation Plans and the Endorsements. This document will be updated as more information becomes available.

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Graduation Plans for Senior Class of 2018 and Beyond

House Bill 5 was signed into law in the summer of 2013 and one of its provisions was to change high school graduation plans for all students who enter high school during the 2014-15 school year and thereafter. The bill provides more flexibility for high school students to pursue either higher education or a career. Generally speaking, House Bill 5 established a single graduation plan, 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 will be able to change their endorsement at any time. An endorsement is basically an opportunity for students to select a “major” during their high school career. 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)
NOTE: To earn the STEM endorsement students MUST take Algebra II, Chemistry & Physics in concert with other Foundation + Endorsement Program requirements

FISD offers courses to meet endorsements in all areas. There are specific course requirements in the foundation curriculum based on the Endorsement selected. A comparison of course requirements by endorsement area may be found later in this guide.

A student may elect to graduate without an endorsement under the high school foundation plan 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.

It is important to note that the Texas Legislature is meeting in the spring of 2015 and there may be additional clarification from the state and the Texas Education Agency. That information will be incorporated into this guide when available. Therefore contents in this guide are subject to change according to changes from either entity and the most recent information will be posted in this document or on the FISD website.

The default plan for all FISD students beginning with the class of 2018 will be the Distinguished Level of Achievement.

More specific information about the graduation plans and the endorsements may be found at:

<http://www.friscoisd.org/ly/departments/GuidanceCounseling/graduationplans2018.htm>

Foundation High School Plan (25 credits)

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

Foundation + Endorsement Plan (26 credits)

This graduation plan replaces the previous Recommended High School Program. Endorsements are described in detail in the “Frisco ISD Graduation Guide for the Class of 2018 & Beyond” – available at:

<http://www.friscoisd.org/ly/departments/GuidanceCounseling/graduationplans2018.htm>

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

Distinguished Level of Achievement Plan (26 credits)

The Distinguished Level of Achievement (DLA) replaces the current Distinguished Achievement Plan as the highest graduation plan in the state of Texas for students entering high school in 2014-2015. ***This is the default graduation plan for Frisco ISD students.***

In order to be considered for Top Ten Percent Automatic Admission in Texas Public Universities, graduates MUST earn a Distinguished Level of Achievement diploma.

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

The primary difference between the Foundation + Endorsement Program and the DLA is the requirement that Algebra II must be one of the four credits in mathematics

Graduation Plans for Senior Class of 2018 and Beyond

SUBJECT AREA	FOUNDATION PLAN (May only be selected at the conclusion of the 10 th Grade Year)	FOUNDATION + ENDORSEMENT PLAN OR DISTINGUISHED LEVEL OF ACHIEVEMENT PLAN
English	4 Credits <input type="checkbox"/> English I <input type="checkbox"/> English II <input type="checkbox"/> English III <input type="checkbox"/> English IV	4 Credits <input type="checkbox"/> English I <input type="checkbox"/> English II <input type="checkbox"/> English III <input type="checkbox"/> English IV
Math	3 Credits <input type="checkbox"/> Algebra I <input type="checkbox"/> Geometry <input type="checkbox"/> 3 rd Credit of Math* *If Math Models is taken, the class must be successfully completed after taking Algebra I AND prior to taking Algebra II	4 Credits <input type="checkbox"/> Algebra I <input type="checkbox"/> Geometry <input type="checkbox"/> Algebra II (Required for Distinguished Level of Achievement)** <input type="checkbox"/> 4 th Credit of Math* *If Math Models is taken, the class must be successfully completed after taking Algebra I AND prior to taking Algebra II
Science	3 Credits <input type="checkbox"/> Biology <input type="checkbox"/> An additional credit must be selected from the following courses: ○ IPC ○ Chemistry ○ Physics <input type="checkbox"/> One additional science credit may be selected from the course catalog	4 Credits <input type="checkbox"/> Biology <input type="checkbox"/> An additional credit must be selected from the following courses: ○ IPC ○ Chemistry ○ Physics <input type="checkbox"/> Two additional science credits may be selected from the course catalog
Social Studies	4 Credits <input type="checkbox"/> World Geography <input type="checkbox"/> World History <input type="checkbox"/> US History <input type="checkbox"/> Economics (.5 credit) <input type="checkbox"/> US Government (.5 credit)	4 Credits <input type="checkbox"/> World Geography <input type="checkbox"/> World History <input type="checkbox"/> US History <input type="checkbox"/> Economics (.5 credit) <input type="checkbox"/> US Government (.5 credit)
Fine Arts	1 Credit <input type="checkbox"/> Fine Arts (see course guide for options)	1 Credit <input type="checkbox"/> Fine Arts (see course guide for options)
Speech	½ Credit <input type="checkbox"/> Professional Communications	½ Credit <input type="checkbox"/> Professional Communications
Health	½ Credit <input type="checkbox"/> Health	½ Credit <input type="checkbox"/> Health

Graduation Plans for Senior Class of 2018 and Beyond

SUBJECT AREA	FOUNDATION PLAN (May only be selected at the conclusion of the 10 th Grade Year)	FOUNDATION + ENDORSEMENT PLAN OR DISTINGUISHED LEVEL OF ACHIEVEMENT PLAN
Foreign Language	<p style="text-align: center;">2 Credits from the same Language</p> <input type="checkbox"/> Spanish <input type="checkbox"/> French <input type="checkbox"/> Chinese <input type="checkbox"/> American Sign Language	<p style="text-align: center;">2 Credits from the same Language</p> <input type="checkbox"/> Spanish <input type="checkbox"/> French <input type="checkbox"/> Chinese <input type="checkbox"/> American Sign Language
Physical Education	<p style="text-align: center;">1 Credit</p> <input type="checkbox"/> Physical Education (see course guide for options)	<p style="text-align: center;">1 Credit</p> <input type="checkbox"/> Physical Education (see course guide for options)
Technology Applications	<p style="text-align: center;">1 Credit</p> <input type="checkbox"/> Technology Applications (see course guide for options)	<p style="text-align: center;">1 Credit</p> <input type="checkbox"/> Technology Applications (see course guide for options)
Electives	5.0 credits (see course guide for options)	4.0 credits (see course guide for options)
TOTAL	25 CREDITS	<p style="text-align: center;">26 CREDITS</p> (4 credits must be in a coherent sequence and content specific to an endorsement area – Please see the “Endorsement” Section of this guide)



FISD Graduation Plans for Class of 2018 & Beyond

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

Foundation Plan - 25 Credits

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

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

Foundation + Endorsement Plan - 26 Credits

- 1 Math Credit in addition to the Foundation Plan
- 1 Science Credit in addition to the Foundation Plan

At least 4 of the 26 Credits must be in a coherent sequence & content-specific to an Endorsement Area.



STEM

Computer Science
Engineering
Math
Science



Business & Industry

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



Arts & Humanities

Art
Band
Choir
LOTE (World Language)
Orchestra
Social Studies
Theatre Arts



Public Services

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



Multi-Disciplinary

Core Academics
Multi-Endorsement
Workforce Ready
College Ready

Distinguished Level of Achievement - 26 Credits

- 1 Math Credit in addition to the Foundation Plan - Math Sequence MUST include Algebra II
- 1 Science Credit in addition to the Foundation Plan

At least 4 of the 26 credits must be in a coherent sequence & content-specific to an Endorsement Area.

Performance Acknowledgements - Additional Recognition for Meeting Certain Criteria

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

GRADUATION PLANS FOR SENIOR CLASS 2016 - 2017

AREA	MINIMUM PLAN	RECOMMENDED PLAN	DISTINGUISHED PLAN
ENGLISH	4 Units <ul style="list-style-type: none"> • English I • English II • English III • English IV 	4 Units <ul style="list-style-type: none"> • English I • English II • English III • English IV 	4 Units <ul style="list-style-type: none"> • English I • English II • English III • English IV
MATH	3 Units <ul style="list-style-type: none"> • Algebra I • Geometry • 3rd Year Math 	4 Units <ul style="list-style-type: none"> • Algebra I • Geometry • Algebra II • 4th Year Math 	4 Units <ul style="list-style-type: none"> • Algebra I • Geometry • Algebra II • 4th Year Math
SCIENCE	2 Units <ul style="list-style-type: none"> • IPC • Biology I 	4 Units <ul style="list-style-type: none"> • IPC • Biology • Chemistry • Physics • 4th Year Science excluding IPC (IPC must be completed prior to Chemistry and Physics) 	4 Units <ul style="list-style-type: none"> • Biology • Chemistry • Physics • 4th Year Science
SOCIAL STUDIES	3 Units World Geography*, World History*, U.S. History, Government and Economics	4 Units World Geography, World History, U.S. History, Government and Economics	4 Units World Geography, World History, U.S. History, Government and Economics
FINE ARTS	1 Unit Art, Music, Theater, Dance Band, Orchestra, Digital Graphic & Animation or Elements of Floral Design	1 Unit Art, Music, Theater, Dance Band, Orchestra, Digital Graphic & Animation or Elements of Floral Design	1 Unit Art, Music, Theater, Dance Band, Orchestra, Digital Graphic & Animation or Elements of Floral Design
SPEECH	.5 Units Professional Communications	.5 Units Professional Communications	.5 Units Professional Communications
HEALTH	.5 Units	.5 Units	.5 Units
COMPUTER TECHNOLOGY APPLICATIONS	1 Unit Technology Applications (see course guide for options)	1 Unit Technology Applications (see course guide for options)	1 Unit Technology Applications (see course guide for options)
Foreign Language	None Required	2 Units of the same language Spanish, French, American Sign Language, or Chinese	3 Units of the same language Spanish, French, American Sign Language, or Chinese
Physical Education	1 Unit	1 Unit	1 Unit
Academic Electives	1 Unit*	N/A	N/A
Electives	8 Units	4 Units	3 Units
TOTAL	25 Units	26 Units	26 Units * plus advanced measures

***Minimum Plan =**

Science-two credits. The credits must consist of Biology and Integrated Physics and Chemistry (IPC). A student may substitute a chemistry credit (Chemistry, AP Chemistry, or IB Chemistry), or a physics credit (Physics, Principles of Technology, AP Physics, or IB Physics) and then must use the second of these two courses as the academic elective credit.

Social Studies-three credits. Two of the credits must consist of United States History Studies since 1877 (one credit), United States Government (one-half credit), and Economics with Emphasis on the Free Enterprise System and Its Benefits (one-half credit). The final credit may be selected from the following courses; (a) World History Studies and (b) World Geography Studies.

Academic Elective-one credit. The credit must be selected from World History Studies, World Geography, or science course(s) approved by the State Board of Education (SBOE) for science credit as found in Chapter 112 of the Texas Administrative Code. If a student elects to replace IPC with either Chemistry or Physics, the academic elective must be the other of these two science courses. A student may not combine a half credit of either World Geography with a half credit from another academic elective course to satisfy the academic elective credit requirement.



FISD ENDORSEMENT PATHWAYS*

1 st Course in Sequence	2 nd Course in Sequence	3 rd Course in Sequence	4 th Course in Sequence
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.			
Fine Arts - Art			
<input type="checkbox"/> Art 1 <input type="checkbox"/> PAP Art 1 (Class of 2018 & Beyond) <input type="checkbox"/> Digital Graphics & Animation - Fine Arts Credit	<input type="checkbox"/> Art 2 <input type="checkbox"/> AP Art - Drawing <input type="checkbox"/> Art 2 - Ceramics	<input type="checkbox"/> Art 3 <input type="checkbox"/> AP Art - 2D or 3D <input type="checkbox"/> AP Art - Drawing	<input type="checkbox"/> Art 4 <input type="checkbox"/> AP Art - 3D <input type="checkbox"/> AP Art History
Fine Arts - Dance			
<input type="checkbox"/> Dance 1	<input type="checkbox"/> Dance 2	<input type="checkbox"/> Dance 3	<input type="checkbox"/> Dance 4
Language			
<input type="checkbox"/> Spanish 1 <input type="checkbox"/> French 1 <input type="checkbox"/> Chinese 1 <input type="checkbox"/> ASL 1	<input type="checkbox"/> Spanish 2 or PAP Spanish 2 <input type="checkbox"/> French 2 or PAP French 2 <input type="checkbox"/> Chinese 2 <input type="checkbox"/> ASL 2	<input type="checkbox"/> Spanish 3 or PAP Spanish 3 <input type="checkbox"/> French 3 or PAP French 3 <input type="checkbox"/> PAP Chinese 3	<input type="checkbox"/> AP Spanish 4 <input type="checkbox"/> AP French 4 <input type="checkbox"/> Chinese 4
Fine Arts - Music			
<input type="checkbox"/> Band 1 <input type="checkbox"/> Orchestra 1 <input type="checkbox"/> Choir 1	<input type="checkbox"/> Band 2 <input type="checkbox"/> Orchestra 2 <input type="checkbox"/> Choir 2	<input type="checkbox"/> Band 3 <input type="checkbox"/> Orchestra 3 <input type="checkbox"/> Choir 3	<input type="checkbox"/> Band 4 <input type="checkbox"/> Orchestra 4 <input type="checkbox"/> Choir 4
Social Studies – Students must earn 5 total credits in Social Studies			
<input type="checkbox"/> World Geography <input type="checkbox"/> AP Human Geography	<input type="checkbox"/> World History OR AP World History <input type="checkbox"/> GT Humanities II / AP World History <input type="checkbox"/> AP Seminar	<input type="checkbox"/> US History or AP US History <input type="checkbox"/> Psychology (1/2) or AP Psychology (1/2) or Sociology (1/2) <input type="checkbox"/> AP European History <input type="checkbox"/> AP Seminar	<input type="checkbox"/> US Government (1/2) or AP US Government (1/2) <input type="checkbox"/> Economics (1/2) or AP Economics (1/2) <input type="checkbox"/> Dual Credit US Govt. (1/2) & Dual Credit Economics (1/2) <input type="checkbox"/> AP Seminar
Fine Arts - Theatre			
<input type="checkbox"/> Theatre Arts 1 <input type="checkbox"/> Tech Theater 1	<input type="checkbox"/> Theatre Arts 2 / Theatre Production 1 <input type="checkbox"/> Tech Theater 2	<input type="checkbox"/> Theatre Arts 3 / Theatre Production 2 <input type="checkbox"/> Tech Theater 3	<input type="checkbox"/> Theatre Arts 4 / Theatre Production 3 <input type="checkbox"/> Tech Theater 4
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.			
Advanced Journalism			
<input type="checkbox"/> Journalism or Photojournalism <input type="checkbox"/> Broadcast 1 <input type="checkbox"/> Debate 1	<input type="checkbox"/> Yearbook 1 <input type="checkbox"/> Broadcast 2 <input type="checkbox"/> Debate 2	<input type="checkbox"/> Yearbook 2 <input type="checkbox"/> Broadcast 3 <input type="checkbox"/> Debate 3	<input type="checkbox"/> Yearbook 3 <input type="checkbox"/> Video Technology <input type="checkbox"/> Adv Public Speaking
Agriculture, Food & Natural Resources – Animal Science			
<input type="checkbox"/> Companion Animal Mgmt (Small Animal) (1/2) <input type="checkbox"/> Livestock Production (Large Animal Mgmt) (1/2)	<input type="checkbox"/> Horse Production (Equine Science) (1/2) <input type="checkbox"/> Wildlife, Fisheries, & Eco Mgmt (1/2) <input type="checkbox"/> CTEC – Veterinary Medical Applications	<input type="checkbox"/> CTEC – Practicum in Veterinary Medical Applications (2)	<input type="checkbox"/> CTEC – Advanced Practicum in Veterinary Medical Applications (2) <input type="checkbox"/> CTEC – Adv. Animal Science – Science Credit
Agriculture, Food & Natural Resources – Horticulture & Landscape Design			
<input type="checkbox"/> Survey of Agriculture, Food & Natural Res (1/2) <input type="checkbox"/> CTEC– Landscape & Turf Grass Mgmt (1/2)	<input type="checkbox"/> CTEC – Horticulture Science (1/2) <input type="checkbox"/> Elements of Floral Design - Fine Arts Credit	<input type="checkbox"/> CTEC – Adv Horticulture & Floral Design	<input type="checkbox"/> CTEC – Adv Plant & Soil Science - Science Credit
Agriculture, Food & Natural Resource - Ag Mechanics			
<input type="checkbox"/> Agricultural Mechanics & Metal Technologies <input type="checkbox"/> Survey of Ag, Food & Natural Res (1/2) <input type="checkbox"/> Intro to Ag Mechanics & Metal Technology (1/2) <input type="checkbox"/> Business Information Management 1	<input type="checkbox"/> CTEC – Ag Facilities Design & Fabrication <input type="checkbox"/> CTEC – Agricultural Power Systems	<input type="checkbox"/> CTEC – Practicum in Ag Facilities Design & Fabrication (2)	<input type="checkbox"/> CTEC – Adv Practicum in Ag Facilities Design & Fabrication (2)



FISD ENDORSEMENT PATHWAYS*

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.			
1 st Course in Sequence	2 nd Course in Sequence	3 rd Course in Sequence	4 th Course in Sequence
Architecture & Construction			
<input type="checkbox"/> Survey of Arch & Construction (1/2)	<input type="checkbox"/> CTEC – Architectural Design Interior Design	<input type="checkbox"/> CTEC – Adv Architectural Design Advanced Interior Design	<input type="checkbox"/> CTEC – Practicum in Arch Design (2) <input type="checkbox"/> CTEC – Practicum in Interior Design (2)
Arts, AV Technology & Communication			
<input type="checkbox"/> Digital & Interactive Media (DIM) <input type="checkbox"/> Digital Graphics & Animation – Fine Arts Credit <input type="checkbox"/> Broadcast Journalism 1	<input type="checkbox"/> CTEC - Graphic Design & Illustration (2) <input type="checkbox"/> CTEC – Animation (2) <input type="checkbox"/> Broadcast Journalism 2 <input type="checkbox"/> Fashion Design	<input type="checkbox"/> CTEC – Adv Graphic Design & Illustration (2) <input type="checkbox"/> CTEC – Advanced Animation 2D (2) <input type="checkbox"/> CTEC – Advanced Animation 3D (2) <input type="checkbox"/> CTEC – Audio & Video Production (2) <input type="checkbox"/> Advanced Fashion Design	<input type="checkbox"/> CTEC – Practicum in Graphic Design & Illus. (2) <input type="checkbox"/> CTEC – Practicum in Animation (2) <input type="checkbox"/> CTEC – Advanced Audio & Video Prod (2)
Business Management & Administration			
<input type="checkbox"/> Survey of Business, Marketing & Finance (1/2)	<input type="checkbox"/> Entrepreneurship <input type="checkbox"/> Business Law (1/2)	<input type="checkbox"/> CTEC – Business Information Management 2 <input type="checkbox"/> Global Business (1/2)	<input type="checkbox"/> CTEC – Marketing Dynamics (3) (Meets one period)
Financial Systems			
<input type="checkbox"/> Survey of Business, Marketing & Finance (1/2)	<input type="checkbox"/> Banking & Financial Services (1/2) <input type="checkbox"/> Accounting 1 <input type="checkbox"/> Dollars & Sense (1/2)	<input type="checkbox"/> CTEC – Accounting 2 <input type="checkbox"/> CTEC – Securities & Investments (1/2) <input type="checkbox"/> CTEC – Money Matters (1/2)	<input type="checkbox"/> CTEC – Marketing Dynamics (3) (Meets one period)
Hospitality & Tourism			
<input type="checkbox"/> Survey of Hospitality & Tourism (1/2) <input type="checkbox"/> Travel & Tourism Management (1/2)	<input type="checkbox"/> Introduction to Culinary Arts <input type="checkbox"/> CTEC - Hotel Management <input type="checkbox"/> CTEC - Restaurant Management	<input type="checkbox"/> CTEC – Culinary Arts (2) <input type="checkbox"/> CTEC – Hospitality Services	<input type="checkbox"/> CTEC – Practicum in Culinary Arts (2) <input type="checkbox"/> Food Science – Science Credit <input type="checkbox"/> CTEC – Practicum in Hospitality Services (2)
Information Technology			
<input type="checkbox"/> Computer Maintenance I <input type="checkbox"/> Survey of Information Technology (1/2)	<input type="checkbox"/> CTEC - Web Technologies <input type="checkbox"/> Networking	<input type="checkbox"/> CTEC – Internet Working 1 (CISCO 1 & 2) <input type="checkbox"/> CTEC – Video Game Design	<input type="checkbox"/> CTEC – Internet Working (CISCO 3 & 4) – Dual Credit <input type="checkbox"/> CTEC – Mobile Application Programming
Marketing, Sales, & Service			
<input type="checkbox"/> Survey of Business, Marketing & Finance (1/2) <input type="checkbox"/> Fashion Marketing	<input type="checkbox"/> Sports & Entertainment Marketing (1) <input type="checkbox"/> Retailing & E-Tailing (1/2) <input type="checkbox"/> CTEC - Advertising & Sales Promotion (1/2)	<input type="checkbox"/> CTEC - Marketing Dynamics (3) (Meets one period)	<input type="checkbox"/> CTEC – Practicum in Marketing Dynamics (3) (Meets one period)
Sports & Entertainment Management			
<input type="checkbox"/> Business Information Management 1 <input type="checkbox"/> Digital & Interactive Media <input type="checkbox"/> Survey of Business, Marketing & Finance (1/2) <input type="checkbox"/> Survey of Hospitality & Tourism (1/2)	<input type="checkbox"/> Business Law (1/2) <input type="checkbox"/> CTEC - Advertising & Sales Promotion (1/2) <input type="checkbox"/> CTEC – Business Information Management 2	<input type="checkbox"/> Sports & Entertainment Marketing	<input type="checkbox"/> Sports Management (2)
MULTIDISCIPLINARY ENDORSEMENT – This is the recommended approach for this endorsement. Please view the FISD Course Catalog for prerequisites and other specifics.			
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)			
<input type="checkbox"/> English 1 / PAP English 1 / GT Humanities I <input type="checkbox"/> Biology / PAP Biology <input type="checkbox"/> Algebra 1 / PAP Algebra 1 <input type="checkbox"/> World Geography / AP Human Geography	<input type="checkbox"/> English 2 / PAP English 2 <input type="checkbox"/> Chemistry / PAP Chemistry <input type="checkbox"/> Geometry / PAP Geometry <input type="checkbox"/> World History / AP World History / GT Humanities II	<input type="checkbox"/> English 3 / AP English Language <input type="checkbox"/> Physics / AP Physics 1 <input type="checkbox"/> Algebra 2 / PAP Algebra 2 <input type="checkbox"/> US History / AP US History	<input type="checkbox"/> English 4 / AP English Literature <input type="checkbox"/> AP Physics 2 / AP Physics C / AP Biology / AP Chemistry / or other 4 th Science <input type="checkbox"/> Pre Calculus / AP Calculus / or other 4 th Math <input type="checkbox"/> Government (1/2) & Economics (1/2) or <input type="checkbox"/> AP Government (1/2) & AP Economics (1/2)

Rev. 12/14/2015 Bold & Underlined Courses are “Advanced” CTE Courses Students may earn endorsements by completing the pathway requirements in addition to the FISD Foundation Plan requirements.



FISD ENDORSEMENT PATHWAYS*

1 st Course in Sequence	2 nd Course in Sequence	3 rd Course in Sequence	4 th Course in Sequence
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.			
Education & Training	<input type="checkbox"/> Survey of Education & Training (1/2) <input type="checkbox"/> Child Development (1/2) <input type="checkbox"/> Individual & Family Life (1/2)	<input type="checkbox"/> CTEC - Practicum in Educational Practice (2) <input type="checkbox"/> CTEC - Child Guidance & Mgmt. (2)	<input type="checkbox"/> CTEC - Adv Practicum in Educ. Practice (2) <input type="checkbox"/> CTEC - Practicum in Child Guid & Mgmt (2)
Government & Public Administration	<input type="checkbox"/> Law 1 (1/2) <input type="checkbox"/> Law 2 (1/2)	<input type="checkbox"/> CTEC - Court Systems & Practices <input type="checkbox"/> CTEC - Political Science	<input type="checkbox"/> CTEC - Mock Trial <input type="checkbox"/> CTEC - Practicum in Local Government & Law (2)
Health Science	<input type="checkbox"/> Health Science	<input type="checkbox"/> CTEC - Instructional Practice in Health Science Clinical Rotation (2) <input type="checkbox"/> CTEC - Instructional Practice in Health Science <input type="checkbox"/> Nursing Home Rotation (2) <input type="checkbox"/> Anatomy & Physiology <input type="checkbox"/> Dual Credit Medical Terminology (1/2) <input type="checkbox"/> Dual Credit Intro to the Healthcare System (1)	<input type="checkbox"/> CTEC - Practicum in Health Science Specialized (2) Dual Credit <input type="checkbox"/> CTEC - Practicum in Health Science Pharmacology (2) <input type="checkbox"/> Emergency Medical Technician (2) <input type="checkbox"/> CTEC - Pathophysiology (1/2) <input type="checkbox"/> CTEC - Medical Microbiology (1/2)
Law, Public Safety, Corrections, & Security	<input type="checkbox"/> CTEC - Law Enforcement <input type="checkbox"/> CTEC - Security Services	<input type="checkbox"/> CTEC - Emergency Communications & Dispatch <input type="checkbox"/> CTEC - Correctional Services	<input type="checkbox"/> CTEC - Forensic Science - Science Credit
STEM ENDORSEMENT - Unless noted, this endorsement can be earned with 4 credits in a coherent sequence. Please view the FISD Course Catalog for prerequisites and other specifics.			
Computer Science	<input type="checkbox"/> AP Computer Science	<input type="checkbox"/> CTEC - Video Game Design <input type="checkbox"/> Advanced Computer Science	<input type="checkbox"/> CTEC - Mobile Application Programming
Math - 5 Total Math Credits (Completion of TWO additional math courses AFTER completion of Algebra2) - In addition to Chemistry & Physics	<input type="checkbox"/> Algebra 2 / PAP Algebra 2 <input type="checkbox"/> Computer Science	<input type="checkbox"/> Advanced Quantitative Reasoning <input type="checkbox"/> Pre-Calculus / PAP Pre-Calculus	<input type="checkbox"/> AP Statistics <input type="checkbox"/> Bus. Calculus (1/2) / College Algebra (1/2) - Dual Credit <input type="checkbox"/> AP Calculus AB <input type="checkbox"/> AP Calculus BC
Science - 5 Total Science Credits (Completion of TWO additional science courses AFTER completion of Physics) - In addition to Algebra 2	<input type="checkbox"/> Chemistry / PAP Chemistry <input type="checkbox"/> Anatomy & Physiology <input type="checkbox"/> Physics / AP Physics 1	<input type="checkbox"/> Environmental Systems <input type="checkbox"/> AP Environmental Science <input type="checkbox"/> AP Biology <input type="checkbox"/> AP Chemistry <input type="checkbox"/> Earth & Space Science	<input type="checkbox"/> AP Physics B <input type="checkbox"/> AP Physics C <input type="checkbox"/> Medical Microbiology (1/2) & Pathophysiology (1/2) <input type="checkbox"/> Forensic Science (check pre-requisites) <input type="checkbox"/> Advanced Animal Science (check pre-requisites) <input type="checkbox"/> Food Science (check pre-requisites)
Science, Technology, Engineering & Mathematics	<input type="checkbox"/> CTEC - PLTW - Introduction to Engineering Design <input type="checkbox"/> Survey of Architecture & Construction (1/2)	<input type="checkbox"/> CTEC - PLTW - Digital Electronics <input type="checkbox"/> CTEC - PLTW - Aerospace Engineering	<input type="checkbox"/> CTEC - PLTW - Engineering Design & Development

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

COURSE OFFERINGS

English Language Arts Courses

- **Summer Reading List: Please see your respective high school counseling office to receive a copy of this information or visit your high school website.**
- **Summer reading is required for Pre AP and AP English courses.**

English I - (1 credit)

9th grade

Prerequisite: None

In English I, students strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. This course focuses on literature that highlights the theme of Coming of Age. Building on their knowledge of literary elements in traditional literary genres, students study the relationship between narrative voice and style, while also analyzing literary and stylistic elements in film and literature. They develop persuasive writing skills by using rhetorical appeals. Performance and oral interpretation of literature build students' speaking and listening skills. Research continues to play an important role as students evaluate social, cultural, and historical influences on texts. Through the use of multiple learning and instructional strategies, students acquire not only the knowledge they need but also the confidence in their own abilities to learn and to communicate effectively in real-world situations. This course will require an End of Course Exam.

Pre AP English I - (1 credit)

9th grade

Prerequisite: None

Pre-AP English I engages students in learning all the essential knowledge and skills of English I while providing greater depth. This enhanced curriculum builds the tools necessary to succeed in AP Language and Literature classes. Summer reading is required as it provides an avenue for Pre-AP students to both activate academic skills during the summer and to launch academic progress at the beginning of the school year. 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. Summer reading is required.

Principles English I

9th grade

Prerequisite: Committee Recommendation

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

Applied English 1

9th grade

Prerequisite: Committee Recommendation

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

English II - (1 credit)

10th grade

Prerequisite: None

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

Pre AP English II - (1 credit)

10th grade

Prerequisite: None

Pre-AP English II engages students in learning all the essential knowledge and skills of English II while providing greater depth. This enhanced curriculum continues to build the tools necessary to succeed in AP Language and Literature classes. Summer reading is required as it provides an avenue for Pre-AP students to both activate academic skills during the summer and to launch academic progress at the beginning of the school year. 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. Summer reading is required.

Principles English II

10th grade

Prerequisite: Committee Recommendation

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

Applied English II

10th grade

Prerequisite: Committee Recommendation

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

English III - (1 credit)

11th grade

Prerequisite: None

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

Principles English III

11th grade

Prerequisite: Committee Recommendation

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

Applied English III

11th grade

Prerequisite: Committee Recommendation

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

AP Language and Composition (Junior English) – (1 credit)

11th grade

Prerequisite: None

The AP English Language and Composition course aligns to an 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. Throughout the course, students develop a personal style by making appropriate grammatical 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. Summer reading is required.

English IV - (1 credit)

12th grade

Prerequisite: None

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

Principles English IV

Prerequisite: Committee Recommendation

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

Applied English IV

Prerequisite: Committee Recommendation

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

AP Literature and Composition

(Senior English) - (1 credit)

12th grade

Prerequisite: None

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

College Co-Enrollment English IV - (1 credit)

12th grade

Prerequisite: Must meet eligibility requirements

College Co-Enrollment English IV is taught on-campus at the Collin County Community College Preston Ridge Campus. The class incorporates the essential elements of the high school course with a more accelerated college instructional format. Tuition is paid by the student and class meets twice a week. Transportation is not provided. Both high school and college credit is obtained by passing. Students must pass THEA to enroll in this course. Please note that this course is taught by college professors not FISD staff. Taking college classes while still in high school requires a heightened sense of responsibility and maturity. Failing college English will keep a student from graduating from high school.

College Readiness for English Language Arts

and Reading

12th grade

Prerequisite: Counselor Recommendation

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

English for Speakers of Other Languages

ESOL I (1 credit)

9th–12th grade

Prerequisite: Language Proficiency Placement Test,

LPAC Recommendation

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

English for Speakers of Other Languages

ESOL II - (1 credit)

9th–12th grade

Prerequisite: Language Proficiency Placement Test,

LPAC Recommendation

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

Independent Study in English I – (1 credit)

(PEIMS: 03221800)

9th–11th grade

Independent Study in English II – (1 credit)

(PEIMS: 03221810)

9th–11th grade

Independent Study in English III – (1 credit)

(PEIMS: 03221820)

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

12th grade

Practical Writing – (1 credit)

(PEIMS: 03221300)

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.

Reading I, II, III – (1/2 or 1 credit)

9th – 12th grade

Prerequisite: Counselor Recommendation

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

Professional Communications

9th – 12th grade

(Speech) – (1/2 credit)

Prerequisite: None

Professional Communications (Speech) is designed to build and enhance student communication skills in both a social and professional context. These skills include nonverbal, listening, group communication, presentation, and product development. Students in Professional Communications class will also learn the skills needed to be successful in the business world, such as resume writing, job interviewing protocol, and professional etiquette. Students will also develop an understanding of business structure and the process of product creation and design. This course provides practical application and hands-on experience, which aim to help students develop the necessary communication skills to be productive, successful, and positive contributors to our global society. This course is required for graduation.

Debate I-III - (1 credit)

9th – 12th grade

Prerequisite: Instructor Approval

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

Oral Interpretation - (1 credit)

9th – 12th grade

Prerequisite: Instructor Approval

Oral Interpretation is an intensive speech and performance course in which students study the oral reading of a literary text as a communication art. Students will choose and analyze literature from many genres and prepare dynamic performances of selections in preparation for tournament competition in NFL, TFA, and UIL Interpretive speaking events. Tournament participation (5-8 tournaments a year) is required, and NFL Honor Society membership is available. Students in Advanced Oral Interp courses will use the course as a tournament prep class. Course credit: one is preferred, but students may register by semester. Students may take this course for up to three credits.

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

10th - 12th grade

Prerequisite: Communication Applications

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

Practical Writing Skills - (1/2 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.

Creative and Imaginative Writing - (1/2 credit) 10th–12th grade**Prerequisite: None**

Creative Writing focuses on the writing process. The forms and standards of writing are addressed in a varied format. Many pre-writing techniques will be used including multi-media, discussion reading, journal and personal experience. Writing for comedy, persuasion, drama and narration will be included in this class. This class is an excellent preparation for cross-curriculum writing. This course may substitute for one-half credit of the English IV course for those students on the Minimum High School Graduation Program (TAC 74.52 (b)(1)(B)).

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

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

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

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

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

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

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

Students will continue to learn media law, ethics and responsibilities, as well as apply developed skills of journalistic writing and opinion writing for a variety of audiences. Students will extend practice of principles of interviewing, news evaluation and information gathering. Students will add to and continue to practice skills of reporting, writing and editing in a variety of journalistic styles. They will utilize knowledge and principles of publishing and design, learn economics of publishing, and serve as reporters for the school newspaper. Student will prepare copy and layouts, sell and design advertisements, and select illustrations and photographs for publication, as well as assume editorial leadership roles on the staff. Students enrolled in this class will be responsible for producing the school's newspaper. This course may qualify as either an elective or technology credit towards graduation, not both, beginning with the class of 2014.

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

Students in Advanced Journalism/Newspaper will be responsible for producing the school's newspaper. This hands-on course will make use of the advanced features of Adobe InDesign and Photoshop, both powerful publishing tools used by professionals. This course may qualify as either an elective credit or technology credit towards graduation, not both, beginning with the class of 2014.

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

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

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

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

Independent Study in Journalism**10th – 12th grade****(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)**9th – 12th grade****Prerequisite: None**

Photojournalism I is an elective where students learn photographic history, composition elements, media ethics, and explore digital camera techniques through a variety of projects. Photographic selection based on composition elements and camera techniques for presentation will be emphasized. Photojournalism I is a recommended prerequisite for students interested in applying for the yearbook staff. It would be to the student's advantage to have a personal camera for use in class and at home. **This course may count as a technology applications course. Materials fee required for this course.**

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

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, basic video editing, etc... They will assist in the live announcements and TV broadcast. This course may qualify as either an elective or technology credit towards graduation, but not both. **Materials fee required for this course.**

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

Students in Broadcast II will produce daily radio announcements, and will work with the broadcast team. Students will also assist with campus and district-wide projects. Instruction includes operation of different types of cameras, mastery of audio techniques, set lighting, electronic editing, script writing, direction, production, and special effects. This course may qualify as either an elective or technology credit towards graduation, but not both. **Materials fee required for this course.**

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

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

Radio Broadcast I (1 Credit) 11th – 12th grade**Prerequisite: Broadcast Journalism I**

This innovative course will introduce students to the world of radio production, including commercial production, news and sports writing, audio editing, personality, and radio programming. Students will create and air radio programming for an internet-based campus radio station, which will include music, news, sports.

Radio Broadcast II (1 Credit) 12th grade**Prerequisite: Broadcast Journalism I**

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

Sports Broadcasting I - (1 credit) 11th – 12th grade**Prerequisite: Broadcast I or II**

Students enrolled in this course will demonstrate their knowledge gained from Intro to Sports Broadcasting and Sports Broadcasting Marketing and Graphics and use it in a practical aspect in which they will produce, shoot, and report LIVE games from Memorial Stadium as well as various other sporting locations around the district according to the season. Students will also produce packaged stories to show on the FISSD channel along with the Frisco Student Sports Network website. Students will serve as crew on FSSN sports broadcasts. This course provides hands-on learning opportunities for students and serves as a primer for progression in the sports broadcasting tract.

Sports Broadcasting II - (2 credits) 11th – 12th grade**Prerequisite: Sports Broadcasting**

Students will serve as crew on FSSN sports broadcasts. This course provides hands-on learning opportunities for students. Students enrolled in this course will demonstrate their knowledge gained from Intro to Sports Broadcasting, Sports Broadcasting Marketing and Graphics, and Sports Broadcasting I and use it in a practical aspect in which they will produce, shoot, and report LIVE games from Memorial Stadium as well as various other sporting locations around the district according to the season (i.e. football/basketball/track/baseball/etc.). Students will also produce packaged stories to show on the FISSD channel along with the Frisco Student Sports Network website.

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

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

Mathematics Courses

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

Algebra I - (1 credit) 9th grade**Prerequisite: 8th Grade Math**

Algebra I students will learn about functional relationships through a problem solving lens that focuses on real-life situations. Topics of study include, but are not limited to the following: linear functions, exponential functions, systems of linear equations, systems of linear inequalities, quadratic functions, and real number computation. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012 and beyond.

Principles Algebra I**Prerequisite: Committee Recommendation**

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

Applied Algebra 1**Prerequisite: Committee Recommendation**

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

Pre-AP Algebra I - (1 credit) 9th grade**Prerequisite: 8th Grade Math or Pre-AP 8th Grade Math**

Pre-AP Algebra I students will expand on concepts covered in regular Algebra I with an intense focus on high level application, problem solving, and higher order thinking processes. Students will also develop strategies that prepare them for future Advanced Placement math courses. This course will require an End of Course Exam for any student enrolled from the freshmen class of 2011-2012 and beyond.

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

Algebra II expands on the skills learned in Algebra I to prepare students for either Pre-Calculus or Advanced Quantitative Reasoning. This course is taught with a functional approach giving students a sound foundation for either technical or non-technical degrees in college. Topics of study include, but are not limited to the following: linear systems and matrices, quadratic functions, polynomials, sequences and series, rational functions, radical functions, exponential and logarithmic functions, cubic functions, and absolute value functions. Students will solve equations related to each of these functions as well as model them in real-life situations. Students will also study attributes of these functions and their inverses as well as complex numbers.

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

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

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

Geometry students will learn how shapes and figures describe and represent our environment when coupled with algebra, geometric construction, and formal proof. Topics of study include, but are not limited to the following: relationships in parallel and perpendicular lines, area and perimeter on the coordinate plane, volume and surface area of three-dimensional solids, properties of triangles, similarity and congruence through transformations, an introduction to trigonometry, and properties of quadrilaterals and circles. Students will also learn definitions, postulates, and theorems that help describe geometric relationships. Students will also problem solve using area and volume, trigonometry, probability, and similarity.

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

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

Principles Geometry**Prerequisite: Committee Recommendation**

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

Applied Geometry**Prerequisite: Committee Recommendation**

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

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

Math Models provides a path for students to succeed in Algebra II. Students learn to apply mathematics through experiences in personal finance, science, engineering, fine arts, and social sciences. Other topics students will learn about include the following: budgeting, personal taxes, banking, loan amortizations, analyzing credit card options, home and car finance, insurance rates, and investment options (stocks, bonds, annuities, retirement plans). Students will also revisit some algebra and geometry concepts. Math Models should be taken prior to Algebra II.

Principles Mathematical Models with Applications (MMA)**Prerequisite: Committee Recommendation**

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

Applied Mathematical Models with Applications (MMA)

Prerequisite: Committee Recommendation

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

Applied Math 4

Prerequisite: Committee Recommendation

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

Mathematics Lab – (1/2 to 1 credit)

9th – 12th grade

Prerequisite: Teacher recommendation

Mathematics lab is for students who have entered high school before the 2011-2012 school year and are working to pass the TAKS test. The content of this course will be comprised of instructional units centered around the TAKS objectives and will provide a rich, supportive curriculum to assist students in mastering foundation concepts. Emphasis on problem-solving and applications of mathematics will be included. This course will not count toward required mathematics credits for graduation, but students will receive a local elective credit. Students who fail the math TAKS the previous year will be assigned to the appropriate lab for additional content support.

Advanced Quantitative Reasoning - (1 credit) 11th- 12th grade

Prerequisite: Geometry and Algebra II

Advanced Quantitative Reasoning is a mathematics course for high school juniors and/or seniors that follows Algebra I, Geometry, and Algebra II. This course is a rigorous mathematics class for students who intend to major in non-technical fields of study upon entering college. The course offers student activities in a range of applied contexts and helps students develop college and career readiness skills such as collaborating, conducting research, and making presentations. AQR students will study numeric and algebraic reasoning through weighted averages, proportion, combinatorics, voting and selection process, as well as, cause-an-effect functions, growth or decay models, and logistics. Students will analyze models for expenditures, amortization tables, and various types of loans and investments. Students will gain understanding of probability and statistical reasoning by determining validity and usefulness of statistical data. This course serves as an **alternative** to Pre-Calculus. Students who have successfully passed Pre-Calculus are not eligible to take Advanced Quantitative Reasoning.

Pre-Calculus- (1 credit)

10th- 12th grade

Prerequisite: Geometry or Pre-AP Geometry and Algebra II or Pre-AP Algebra II

Pre-Calculus is a detailed study of the following functions: linear, quadratic, polynomial, rational, exponential, logarithmic, and trigonometric. This course also covers sequences, series, vectors, and introductory parametric functions. This course meets the **minimum** prerequisite requirement for AP Calculus AB. This course is not recommended as a prerequisite for AP Calculus BC.

Pre-AP Pre-Calculus - (1 credit)

10th–12th grade

Prerequisite: Geometry or Pre-AP Geometry and Algebra II or Pre-AP Algebra II

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

AP Calculus AB - (1 credit)

11th -12th grade

Prerequisite: Pre-Calculus or Pre-AP Pre-Calculus

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

AP Calculus BC - (1 credit)

11th -12th grade

Prerequisite: Pre-AP Pre Calculus

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

AP Statistics - (1 credit)

11th - 12th grade

Prerequisite: Algebra II or PAP 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.**

College Algebra - (1/2 credit)

11th - 12th grade

Prerequisite: Algebra II and meet eligibility requirements

This course meets twice a week at Collin County Community College for one semester. College Algebra is a study of relations and functions including polynomial, rational, exponential, logarithmic, and special functions. Other topics include complex numbers, systems of equations, and inequalities, theory of equations, progressions, the binomial theorem, proofs, and applications. Students are responsible for all transportation, books, fees, and tuition at the college and must pass TTSI (Texas Success Initiative Assessment) to enroll. **This course may qualify as 1/2 of the 4th math credit.**

Calculus for Business

11th - 12th grade

and Economics - (1/2 credit)

Prerequisite: Algebra II and meet eligibility requirements

This course meets twice a week at Collin County Community College for one semester. Calculus for Business and Economics I provides an introductory study of the business applications of calculus. Topics include limits, rates of change, differentiation, graphing and optimization, integration, and selected applications of calculus and business. Although this course does not have a corresponding College Board Advanced Placement Exam, it is a college course designed for students who plan to major in business in college. This is a dual credit course and upon completion, the student can receive 3 hours of college credit for this course. Students are responsible for all transportation, books, fees, and tuition at the college and must pass TSI (Texas Success Initiative Assessment) to enroll. **This course may qualify as 1/2 of the 4th math credit.**

College Readiness for Mathematics

12th grade

Prerequisite: Counselor Recommendation and Foundational HS Program

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. Entry into this course requires counselor recommendation and student enrollment into the Foundation Graduation Plan.

Science Courses

- Students are advised to be aware of the math course prerequisites and co-requisites for certain science courses.
- IPC will count as a science credit if completed prior to chemistry and physics.

Advanced Animal Science (1 credit)

12th grade

Prerequisite: 2 of 4 courses - Equine Science, Large Animal Management, Companion 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 count as a science credit.**

Advanced Plant and Soil Science

12th grade

(CTEC) (1 credit)

Prerequisite: Advanced Horticulture & Floral Design

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 count as a science credit.**

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. Materials fee may be required for this course. This course may count as a science credit.

Forensic Science (CTEC) (1 credit) 12th grade**Prerequisite: Law Enforcement, Security Services, or Correctional Services**

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 count as a science credit.

Integrated Physics and Chemistry (IPC) (1 credit) 9th - 10th grade**Prerequisite: None**

Integrated Physics and Chemistry is a survey lab course that reinforces the foundational knowledge required for all subsequent physical science courses. Students conduct laboratory and field investigations, use scientific methods during investigation, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: force, motion, energy, and matter.

Principles IPC**Prerequisite: Committee Recommendation**

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

Applied IPC**Prerequisite: Committee Recommendation**

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

Biology - (1 credit) 9th - 11th grade**Prerequisite: None**

Biology is a course designed around the study of living things. This course emphasizes a variety of topics such as functions of cells and viruses; growth and development of organisms; cells, tissues and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers in living organisms; ecosystems; living systems; homeostasis; ecosystems; and plants and the environment. Manipulative laboratory skills, skills in acquiring data, classification skills in ordering and sequencing data, oral and written communication skills, along with career exploration will be stressed in this course. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012 & beyond.

Principles of Biology**Prerequisite: Committee Recommendation**

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

Applied Biology**Prerequisite: Committee Recommendation**

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

Pre-AP Biology - (1 credit) 9th - 11th grade**Prerequisite: None**

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

AP Biology - (1 credit) 11th - 12th grade**Prerequisite: Biology, 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.

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

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

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

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

Applied Chemistry

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

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

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

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

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

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

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

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

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.** (Students who have completed PAP Physics are not allowed to take AP Physics 1.)

AP Physics 2 - (1 credit) 10th - 12th grade

Prerequisite: Physics

Co-requisite: Pre-Calculus

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

AP Physics C - (1 credit) 10th – 12th grade

Prerequisite: Physics and Pre-Calculus

Co-requisite: AP Calculus (AB or BC)

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

Environmental Systems - (1 credit) 11th – 12th grade

Prerequisite: Biology and IPC or Chemistry

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

Principles of Environmental Systems

Prerequisite: Biology and IPC or Chemistry/Committee

Recommendation

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

Applied Environmental Systems

Prerequisite: Committee Recommendation

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

AP Environmental Science - (1 credit) 11th – 12th grade

Prerequisite: Biology, Chemistry and Algebra I

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

Aquatics - (1 credit) 10th - 12th grade

Prerequisite: Biology

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

Principles of Aquatics

Prerequisite: Biology / Committee Recommendation

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

Applied Aquatics

Prerequisite: Committee Recommendation

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

Anatomy and Physiology - (1 credit) 10th – 12th grade

Prerequisite: Biology Co-requisite: Chemistry

Anatomy and Physiology is a college preparatory and a laboratory-oriented course that will provide opportunities for the student to observe anatomical structures and examine physiological systems. Acquiring, classifying, and sequencing data; experiences in oral and written communication; and career explorations are skills that will be addressed in this course. Students in this course may choose to take courses in Health Science Technology. This course may count as the 4th science credit in the recommended and DAP graduation plans.

Medical Microbiology - (1/2 credit) (CTEC) 11th - 12th grade

Other 1/2 credit from Pathophysiology to count for 4th science credit

Prerequisite: Biology, Chemistry, Anatomy and Physiology

Medical Microbiology is a college preparatory and laboratory-oriented course that will provide opportunities for the student to identify and culture microorganisms that are of interest in the medical field. The student will learn lab techniques for working safely with microorganisms and will investigate the physiological effects of various microorganisms on the human body. The course is intended to provide high school exposure to microbiology concepts for the student who is particularly interested in a health-related career track or for the student who is interested in the biological sciences. This course may count as 1/2 of the 4th science credit in the recommended and DAP graduation plans.

Pathophysiology - (1/2 credit) (CTEC) 11th - 12th grade

Other 1/2 credit from Medical Microbiology to count for 4th science credit

Prerequisite: Biology, Chemistry, Anatomy and 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. This course may count as 1/2 of the 4th science credit in the recommended and DAP graduation plans.

Earth and Space Science - (1 credit) 11th - 12th grade

Prerequisite: Three units of science and three units of math (3rd and 4th science credits may be taken concurrently)

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

Social Studies and Economics Courses

World Geography - (1 credit) 9th grade

Prerequisite: None

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

Principles World Geography - (1 credit)

Prerequisite: Committee Recommendation

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

Applied World Geography - (1 credit)

Prerequisite: Committee Recommendation

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

AP Human Geography - (1 credit)

9th grade

Prerequisite: none

This course combines the state requirements for World Geography with the Advanced Placement Human Geography course. It is designed to allow 9th graders to develop the skills necessary to be successful in Advanced Placement courses. This course introduces students to the patterns and processes of the earth, its regions, and its people. In examining how people have interacted with the earth over time, students will examine concepts such as culture, population, political organization, cities, agriculture and land use, as well as industrialization and economic development. They also learn about the methods and tools geographers use in their science and practice. Students taking this course should have strong reading and writing skills. Upon completion of this course, interested students will also be eligible to take the national AP examination in May to earn college credit.

World History Studies - (1 credit)

10th grade

Prerequisite: None

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

Principles World History - (1 credit)

Prerequisite: Committee Recommendation

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

Applied World History - (1 credit)

Prerequisite: Committee Recommendation

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

AP World History - (1 credit)

10th grade

Prerequisite: None

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

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

9th grade

Prerequisite: Identification / Selection as Gifted/Talented

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

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

10th grade

Prerequisite: Identification / Selection as

Gifted/Talented and GT Humanities I

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

United States History - (1 credit)

11th grade

Prerequisite: None

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

Principles of U.S. History - (1 credit)

Prerequisite: Committee Recommendation

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

Applied U.S. History - (1 credit)

Prerequisite: Committee Recommendation

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

AP U.S. History - (1 credit)

11th grade

Prerequisite: None

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

U.S. Government - (1/2 credit)

12th grade

Prerequisite: None

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

Principles Government - (1/2 credit)

Prerequisite: Committee Recommendation

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

Applied Government - (1/2 credit)

Prerequisite: Committee Recommendation

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

Economics

(emphasis on free enterprise) - (1/2 credit)

12th grade

Prerequisite: None

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

Principles Economics - (1/2 credit)

Prerequisite: Committee Recommendation

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

Applied Economics - (1/2 credit)

Prerequisite: Committee Recommendation

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

AP U.S. Government - (1/2 credit)

12th grade

Prerequisite: None

AP United States Government is a course designed to give students an analytical perspective on government and politics in the United States. This course covers the constitutional foundations, political beliefs and behaviors, political parties and interest groups that make up the US government. All areas of the federal government – Congress,

the presidency, bureaucracy, judiciary and civil liberties and civil rights are studied. This course involves both the study of general concepts used to interpret US politics and the analysis of specific case studies. It also requires familiarity with the various institutions, groups, beliefs and ideas that constitute US political reality. Students will have the opportunity to take the AP exam upon completion of this course. **This is a college level course.**

AP European History - (1 credit)

11th - 12th grade

Prerequisite: None

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

AP Macroeconomics - (1/2 credit)

12th grade

Prerequisite: None

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

College Co-Enrollment Economics - (1/2 credit)

12th grade

Prerequisite: Must meet eligibility requirements

College Co-Enrollment Economics with Emphasis on the Free Enterprise System and Its Benefits is designed for students showing an advanced aptitude for the study of social studies and/or business. It undertakes an in-depth study of the capitalistic system and its purposes, functions, and results. This course meets for one semester at the Collin County Community College - Preston Ridge Campus. The student must pass THEA, apply for admission and pay for tuition, books and fees. **Please note that this course is taught by college professors not FISD staff. Taking college classes while still in high school requires a heightened sense of responsibility and maturity. Failing college Economics WILL keep a student from graduating from high school.**

College Co-Enrollment U.S. Government (1/2 credit)

12th grade

Prerequisite: Meet eligibility requirements

College Co-Enrollment United States Government taught on-campus at the Collin Community College Preston Ridge Campus, incorporates the essential elements of the high school course with a more accelerated college instruction format. Tuition is paid by the student and the class meets for one semester. Joint high school and college credit is obtained by passing. The student must pass THEA and apply for admission. Transportation is not provided. **Please note that this course is taught by college professors not FISD staff. Taking college classes while still in high school requires a heightened sense of responsibility and maturity. Failing college government WILL keep a student from graduating from high school.**

Personal Financial Literacy (1/2 credit)

11th - 12th grade

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 Psychology - (1/2 credit)

11th - 12th grade

Prerequisite: None

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

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. AP Seminar will be offered at Reedy, Liberty, Wakeland, & Heritage campuses with access to the course from other campuses via the partner campus academic shuttle. For further information please consult the College Board Website: <https://lp.collegeboard.org/ap-capstone>

AP Research Course – (1 credit)

10th - 12th grade

Prerequisite: Successful Completion of AP Seminar

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

Fine Arts Courses

Art

Art I - (1 credit)

9th – 12th grade

Prerequisite: None

Art I is an introductory course in which students will learn how to use the elements and principles of art to create a variety of two and three dimensional art (art production). Media explored will include but will not be limited to, drawing, painting, printmaking, sculpture, ceramics, and fibers. Students will also be introduced to the historical and cultural influences on art (art history). They will explore the philosophical nature of art (aesthetics) and students will learn to make critical judgments about art (art criticism). Art 1 is a yearlong course in which first semester skills are needed to be successful in semester two. Students are required to purchase a specific list of supplies costing approximately \$30-\$45. Supplies must be purchased during the first 2 weeks of school to remain in the class.

Pre AP Art I - (1 credit)

Entering 9th grade in 2014-15 or after

Prerequisite: None

Pre Advanced Placement Art I may be substituted for Art I. Art I curriculum will be covered however students will be required to produce work at a more advanced level both in quality and quantity. This course is designed specifically to challenge the student that has had 2-3 years of middle school art credit and / or is intending to pursue the more rigorous AP Studio Art classes. Students will learn what will be expected of them for the

AP Portfolio Examination. Students are required to purchase a specific list of supplies costing approximately \$40-\$45. Supplies must be purchased during the first 2 weeks of school to remain in the class.

Art II - (1 credit) 10th - 12th grade

Prerequisite: Art I - Pre AP Art I

Art II offers instruction in a variety of media and techniques and builds on the skills and information learned in Art I. Emphasis is on skill building and creative problem solving however, art history, aesthetics, and art criticism will also be addressed. Art II is an intensive yearlong course in basic drawing, design, and painting with some three dimensional work designed to challenge the students who are planning to take advanced art classes. First semester skills are needed to be successful in semester two. **Students are required to purchase a specific list of supplies costing approximately \$45-\$55.** Supplies must be purchased during the first 2 weeks of school to remain in the class.

Pre-AP Art II- (1 credit) Entering 10th grade Prerequisite: Art I - Pre-AP Art I recommended

The Pre-AP Art II Curriculum is designed to spiral and expand the Art I or Pre AP Art I curriculum. The Pre AP Art II coursework follows College Board outlines for advanced placement studio portfolios. Student will apply the elements and principles of art in all compositions to a greater proficiency than other Art II students as well as connect art history and criticism to those productions. Students will develop skills in drawing and color theory application beyond the average Art II student as they continue reviewing requirements of the AP examination. Students extend learning through higher expectations in painting, printmaking, technology, sculpture and ceramics. Pre AP Art II is an honors credit class recommended for students seriously looking at visual art career. It will begin preparing and focusing students on developing breadth pieces used in the AP portfolio. Students are required to purchase a specific list of supplies costing approximately \$45-\$55. Supplies must be purchased during the first 2 weeks of school and will remain in the class.

Art II Ceramics - (1 credit) 10th - 12th grade

Prerequisite: Art I - Pre AP Art 1

This accelerated course in ceramic techniques will address the history of ceramics, modeling, molding, casting, carving construction and assemblage. This course will also cover throwing on the wheel, kiln firing, primitive firing, glaze chemistry and surface design. Further, exhibition, portfolio development, and development of a series or collection of ceramic work related to central concept will be a goal. **Students are required to purchase a specific list of supplies or pay a supply fee costing approximately \$35-\$40.** Supplies must be purchased during the first 2 weeks of school remain in the class.

Art III-IV - (1 credit) 11th - 12th grade

Prerequisite: Art II/III

Art III and IV are intensive yearlong courses that continue instruction in a variety of media and techniques and are designed for the student who is seriously interested in the practical experience of art. Emphasis is on skill building and creative problem solving however, art history, aesthetics, and art criticism will also be addressed. The course is oriented toward exhibitions and competitions and the development of individual artistic strengths and interests. Emphasis is on skill building and creative problem solving however, art history, aesthetics, and art criticism will also be addressed. First semester skills are needed to be successful in semester two. **Students are required to purchase a specific list of supplies costing approximately \$55-\$65.** Supplies must be purchased during the first 2 weeks of school to remain in the class.

AP Studio Art-Drawing - (1 credit) 10th - 12th grade

Prerequisite: Art II - Pre AP I recommended

Advanced Placement Studio Art is a **college level** drawing portfolio class designed for students who are seriously interested in the practical experience of art. This College Board Program provides the only national standard for performance in the visual arts that allows students to earn college credit and/or advanced placement while still in high school. First year AP Art students prepare a Drawing Portfolio. The portfolio requires actual examples and digital images of student artwork within a three-section structure of quality, concentration and breadth. **Students are required to purchase a specific list of supplies costing approximately \$50-60, and a \$25 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 returned by the end of the first six weeks. If possible, students should take AP Art with a regular Art class. AP students are given the opportunity to submit a portfolio exam to the College Board for college credit.

AP Art History - (1 credit) 10th – 12th grade

Prerequisite: None (World, European or U. S. History recommended)

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

AP Studio Art 2D- Design - (1 credit) 10th - 12th grade

Prerequisites: Pre AP Art I or Art II recommended

Advanced Placement Studio Art Design portfolios are designed for students who are seriously interested in the practical experience of art. This College Board Program provides the only national standard for performance in the visual arts that allows students to earn college credit and/or advanced placement while still in high school. First year AP Art Design students take AP Art 2D Design and second year AP Art Design students take AP Art- 3-D Design. Both portfolios require actual examples and slides of student artwork within a three-section structure of quality, concentration and breadth. **Students are required to purchase a specific list of supplies costing approximately \$50-60 and a \$25 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. Slide fees must be returned by the end of the first 6 weeks. If possible, students should take AP Art with a regular Art III/ IV class. AP students are given the opportunity to submit a portfolio exam to the College Board for college credit.

AP Studio Art 3D- Design - (1 credit) 11th - 12th grade

Prerequisites: AP Studio Art 2D Design recommended)

Advanced Placement Studio Art Design portfolios are designed for students who are seriously interested in the practical experience of art. This College Board Program provides the only national standard for performance in the visual arts that allows students to earn college credit and/or advanced placement while still in high school. First year AP Art Design students take AP Art 2D Design and second year AP Art Design students take AP Art- 3-D Design. Both portfolios require actual examples and slides of student artwork within a three-section structure of quality, concentration and breadth. Students are required to purchase a specific list of supplies costing approximately \$50-60 and a matting fee of \$25. Additional supply costs may also be incurred. Supplies for AP Art will overlap with the students enrolled in Art III and IV.

Elements of Floral Design (1 credit) 10th –12th grade

Prerequisite: none

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

Music

Band - (1 credit) 9th – 12th grade

Prerequisite: Teacher recommendation

Band is a rigorous, full year course concentrating on the continued development of fundamental wind and percussion skills. The rehearsal and performance schedules are demanding, including outside-of-school practices, football games, pep rallies, contests, sectionals, and concerts. Participating in fall marching band allows students to waive ½ credit of the required P.E. credits. **Additional expenses for supplies will be incurred.** 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. A balanced focus on both individual and ensemble development occurs throughout both semesters.

Instrumental Ensemble Band - (1 credit) 9th -12th grade

Prerequisite: 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.

Jazz Band - (1/2 credit) 9th – 12th grade

Prerequisite: Audition and teacher recommendation

Jazz Band will include a small ensemble to study and perform jazz and popular music. This class meets before or after school during spring semester only.

Music Theory - (1 credit) 9th – 12th grade

Prerequisite: Application

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

AP Music Theory - (1 credit) 10th - 12th grade

Prerequisite: Music Theory I and teacher recommendation

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

Instrumental Ensemble Orchestra - (1 credit) 9th -12th grade

Prerequisite: Teacher Recommendation

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

Orchestra - (1 credit) 9th -12th grade

Prerequisite: Teacher recommendation

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

Choir- (1 credit) 9th -12th grade

Prerequisite: None

Choir is a rigorous, full year course concentrating on the continued development of vocal performance skills. The rehearsal and performance schedules are demanding, including out side 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.

Vocal Ensemble Choir - (1 credit) 9th -12th grade

Prerequisite: Teacher Recommendation

Choral Vocal ensemble is a full year course dedicated to developing individual and Vocal Ensemble skills. Much of the curriculum focuses on basic fundamental skills of ensemble singing and improving small ensemble performance technique. Class time will be spent developing a repertoire for Vocal Small ensemble and/or Chamber performance. Additional class time may be spent on All-State Etudes, Solos and advanced vocal literature, with the experience of singing three- and four-part harmony. Requirements include, but are not limited to, performances in two concerts during the fall semester and two performances during the spring semester.

Theatre Arts

Theatre Arts I - (1 credit) 9th – 12th grade

Prerequisite: None

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

Intermediate Theatre Arts I - (1 credit) 9th – 12th grade

Prerequisite: Middle School Theatre and teacher recommendation

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

Theatre Arts II - (1 credit) 10th - 12th grade

Prerequisite: Theatre Arts I

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

Theatre Arts III - IV - (1 credit) 11th – 12th grade

Prerequisite: Theatre Arts II and teacher recommendation

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

seriously study and apply the theory of acting. Primarily students enrolled in this class are the same ones who comprise a large percentage of the acting companies of the departmental productions.

Technical Theatre I - (1 credit) 9th – 12th grade

Prerequisite: Theatre Arts I or Interview with Instructor

Technical Theatre I general areas of study include, but are not exclusive to the following: principles of costume, make-up, scenery, lighting and sound design and application, and general stagecraft skills. Additional areas explored are history of the theatre and careers in the theatre. Students will be involved in many design projects in each grading period and written projects and tests throughout the year. Students in Technical Theatre I are also required to attend all campus theatre productions and complete 10 lab hours in the first semester, outside of the school day. Students are required to purchase a specific list of supplies totaling approximately \$35.

Intermediate Technical Theatre I - (1 credit) 9th – 12th grade

Prerequisite: MS Theatre Arts and teacher recommendation

Intermediate Technical Theatre I may be substituted for Technical Theatre Arts I. It is an intensive course in theatrical design and application, stage management, stagecraft, technical script analysis, and theatre history designed to challenge the students having 2-3 years of middle school theatre arts credit. Students will be involved in many design projects in each grading period, and written projects and tests throughout the year. Students in Intermediate Technical Theatre I are required to attend all campus theatre productions and complete 12 lab hours in the first semester, outside of the school day. Students are required to purchase a specific list of supplies totaling approximately \$35. Application forms are available through the counselor’s office and the high school and middle school theatre arts teachers.

Technical Theatre II - (1 credit) 10th - 12th grade

Prerequisite: Technical Theatre I and teacher recommendation

Technical Theatre II is a continuation of Technical Theatre I with special emphasis on advanced theatre design, moderate to advanced stage craft skills, and stage management. Students will also continue their study of script analysis and begin working on period styles and architecture of specific time periods. Students will begin creating a portfolio of their design work. Students in Technical Theatre II are required to attend all campus theatre productions and complete 15 lab hours in the first semester, outside of the school day. Students are required to purchase a specific list of supplies totaling approximately \$40.

Technical Theatre III-IV - (1 credit) 11th - 12th grade

Prerequisite: Technical Theatre II and teacher recommendation

Areas of study in Technical Theatre III-IV include advanced stagecraft and design implementation. Emphasis will be placed on lab work, creation of technical theatre portfolio, leadership skills and exploration and analysis of play styles and history of architecture and costuming. All students will be involved in many projects, both written and visual, throughout the year. This class is designed for the student who wishes to seriously study and apply the theory of stage design. Primarily students enrolled in this class are the same ones who comprise a large percentage of the technical crews of the departmental productions. Students in Technical Theatre III-IV are required to attend all campus theatre productions and complete 20 lab hours in the first semester, outside of the school day. Students are required to purchase a specific list of supplies totaling approximately \$50.

Theatre Production I-IV - (1 credit) 10th - 12th grade

Prerequisite: Theatre 1 or Technical Theatre I, Audition

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

Dance

Dance I - Fundamentals - (1 credit) 9th – 12th grade

Prerequisite: None

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

Dance II - Technique - (1 credit) 10th – 12th grade

Prerequisite: Dance I

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

Dance III - Intermediate - (1 credit) 11th -12th grade**Prerequisite: Dance II and Instructor Approval**

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

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

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

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

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

Performing Dance Team - (1 credit) 9th – 12th grade**Prerequisite: Audition Tryouts by Judges**

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

Color Guard (1 credit) 9th – 12th grade**Prerequisite: None**

Color Guard is a rigorous, full year course concentrating on the continued development of fundamental marching rifle and flag skills. This is a performance class where the basics of movement, dance and use of equipment are taught. The rehearsal and performance schedules are demanding, including outside-of-school practices, football games, contests, performances. Participating in the Color Guard allows students to waive ½ credit of the required P.E. credits. 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.

Languages Other Than English Courses**Spanish I - (1 credit) 9th – 12th grade****Prerequisite: none**

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

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

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

target language.

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

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

Spanish III – (1 credit) 10th – 12th grade**Prerequisite: Spanish II**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ASL I introduces students to the language and culture of the Deaf. In this course, students will build their receptive and expressive communicative foundation. The focus of this course is developing a novice-mid proficiency. **This course is conducted in ASL (without voice) a significant amount of time. Due to class size restrictions, this course is only offered for students needing to earn LOTE credit for graduation.**

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

ASL II continues to introduce the language and culture of the Deaf. In this course, students continue to develop their expressive and receptive communicative abilities. Students will gain a deeper appreciation and understanding of American Deaf Culture. The focus of this course is developing a novice-high proficiency. **This course is conducted in ASL (without voice) a significant amount of time. Due to class size restrictions, this course is only offered for students needing to earn LOTE credit for graduation.**

American Sign Language III - (1 credit) 11th – 12th grade**Prerequisites: ASL II**

ASL III is offered in an on-line format during the school day. The on-line learning platform utilized for this course helps students maximize their learning and practice experience. This course will be held at each campus. The offering of this course is subject to confirmed student enrollment. *This course will be phased out and will only be offered through 2016-2017.*

American Sign Language IV - (1 credit) 12th grade**Prerequisites: ASL III**

ASL IV is offered in an on-line format during the school day. The on-line learning platform utilized for this course helps students maximize their learning and practice experience. This course will be held at each campus. The offering of this course is subject to confirmed student enrollment. *This course will be phased out and will only be offered through 2017-2018.*

Health and Physical Education Courses

Physical Education Requirements

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

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

Foundations of Personal Fitness (1/2-1 credit) 9th - 12th grade**Prerequisite: None**

Personal Fitness is a course that teaches foundations of personal fitness. There are activities and discussion as they relate to physical education. Topics taught: Importance of P.E., Safety, Cardiovascular, Flexibility, Body Composition, Nutrition and Weight lifting.

Aerobic Fitness I and II (1/2 - 1 credit) 9th - 12th grade**Prerequisite: None**

Students will learn how to become aerobically fit in an effort to lead healthy lifestyles. Students will have the opportunity to progress through 8 levels of fitness during their high school career. Fitness components from nutrition, stretching, jogging, fit walking, heart rate monitoring, motivation and support are some of the topics that will be covered.

Individual Sports/Team Sports I and II (1/2 - 1 credit) 9th - 12th grade**Prerequisite: None**

Individual Sports is a course that teaches lifetime individual fitness activities. Students participating in Individual Sports will receive instruction in table tennis, badminton, golf, bowling, weight lifting, swimming, walking/running, Frisbee, etc. Team Sports is a course that teaches intramural/fitness for life. Students participating in Team Sports will receive instruction in of flag football, basketball, volleyball, soccer, hockey, softball, Frisbee football, etc.

Weight Lifting Conditioning I and II - (1/2 - 1 credit) 9th - 12th grade**Prerequisite: None**

Weightlifting and conditioning is a course designed to teach a variety of weight training.

Partner's PE - (1/2-1 credit) 10th - 12th grade
Prerequisite: Application

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

Student Athletic Trainer - (1 credit) 10th - 12th grade
Prerequisite: Application

Student athletic training is a full year class that involves hands-on experience on the field and in the 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 trainers must complete one year of the sports medicine class.

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

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

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

Students enrolled in adventure/outdoor education are expected to develop competency in Adventure/Outdoor Education activities that provide opportunities for enjoyment and challenge. Emphasis is placed upon student selection of activities that also promote a respect for the environment and that can be enjoyed for a lifetime. Adventure/Outdoor Education includes activities such as archery, backpacking, camping, hiking, fishing, orienteering, hunter education, and boater safety. This course includes field experiences aligned with these recreational pursuits. Knowledge of The National Parks Association, Endangered Species Information, Boating Safety and Hunting Safety are a part of the curriculum. This course will require student fees for the Hunter Education and Boater Certification portions of the courses through TPWD.

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

Health Education stresses concepts and skills that foster individual personal health and safety, health-related concepts and skills that invoke interaction between individuals and health-related concepts and skills that affect the well-being of people collectively.

Teen Leadership and Academic Decathlon

Teen Leadership I - (1/2 credit) 9th - 12th grade
Prerequisite: None

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

Teen Leadership II - (1/2 credit) 10th – 12th grade
Prerequisite: Teen Leadership I at the high school level and application

Teen Leadership II is a highly interactive course that provides continued leadership development. A major focus will be on student-led service-based projects. Students will plan, organize and implement activities that can be done during the regular class time. These projects will be conducted throughout the semester at various organizations within the Frisco community. Through these service-based activities, students will be able to practice and apply the leadership skills that they have learned. **(Only juniors and seniors may take Teen Leadership I and II during the same school year.)**

Academic Decathlon - (1 credit) 9th – 11th grade
Prerequisite: Application and instructor approval

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

Student Congress - (1 Credit) 10th – 12th grade
Prerequisite: Application for officers and student council members

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

Local Elective Courses

Student Technology Work Program 11th – 12th grade
(1 credit)
Prerequisite: Currently enrolled in Internet Working II and teacher approval

This course will incorporate students in repairing and maintaining hardware /software for the computers around the district. This class is limited to 3-5 students. Each student must go through an application process.

Academic Study Advancement Program 9th – 11th grade
ASAP (1/2 local credit)

Prerequisite: Instructor Approval

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

PSAT TEAM - (1/2 local credit) 11th grade
Recommendation: by Qualifying Score

The PSAT Team is an intensive educational experience that prepares students for the PSAT administered in October of the Junior year. The rigorous instruction is designed to improve both verbal and quantitative test scores. An integral component of this course is attendance at a 20-hour summer seminar and four Saturday sessions preceding the October PSAT administration. This course is GPA exempt and the final grade will be reported as pass/fail.

PSAT CLASS - (1/2 local credit) 11th grade

The PSAT Class is open to those Juniors who want to develop their verbal and quantitative skills in preparation for the October PSAT. Students can expect a demanding course of study and may be required to attend a 20-hour summer seminar and four Saturday sessions preceding the October PSAT administration. Purchase of the SAT Study Guide is recommended. This course is GPA exempt and the final grade will be reported as pass/fail.

SAT/ACT PREP. CLASS - (1/2 local credit) 10th – 12th grade

The SAT Prep. Class is available to any Junior or Senior who wants help preparing for the SAT. Test taking skills and specific test items are emphasized for both the verbal and quantitative sub-tests. An ACT component will also be included. Purchase of the SAT Study Guide is recommended. This course is GPA exempt and the final grade will be reported as pass/fail.

Independent Study and Mentorship Program

Independent Study and Mentorship Program 11th – 12th grade
(1 credit)

Prerequisite: Application Process

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

Competitive Sports Information

FISD offers the following competitive sports:

Football	Basketball (boys and girls)
Girls' Volleyball	Wrestling (boys and girls)
Tennis	Soccer (boys and girls)
Golf	Swimming & Diving
Softball	Baseball
Track	Cross Country
Powerlifting	

IMPORTANT!! Students are allowed to sign up for any sport of their choosing. **However, you must make the team in order to stay in the class.** Athletic cuts are typically made the first few weeks of each semester. Those students who do not make the team will have to have a schedule change. *Underclassmen who do not make the team will be transferred to a physical education class. Other students will be given their choice of elective classes that are still OPEN.*

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 I / 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.

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.

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 21st century's 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.

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 of their coursework with the exception of the courses designated as (CTEC). The Frisco ISD CTE Center will allow students to explore post-secondary and career options at an increased academic level with a relevant, industry-standard learning experience.

Many of the courses offered at the Frisco ISD CTE Center meet the requirements of the "Advanced Measures" component of the Distinguished Achievement Program and offer articulated college credit. The Frisco ISD CTE Center allows a student 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.

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

Courses designated with CTEC may be offered at the Frisco ISD CTE Center. The Frisco ISD CTE Career Programs of Study are available at: <http://schools.friscoisd.org/spc/cte> or by contacting the Frisco ISD CTE Department at 469-633-6780. Due to limitations in some field site placements, the competitive nature of the programs, completing the pre-requisites do not guarantee a position in some of the advanced CTE Courses offered at the CTE Center.

CTE Courses and Articulated College Credit

The intent of offering 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. Articulated college credit encourages high skill attainment in both academic and technical areas and utilizes technology in the classroom.

Frisco ISD articulated courses with Collin College, Grayson County Community College and through statewide articulation agreements, or other college articulation agreements. These courses can provide college credit if the student meets specific criteria.

Students who enroll in these courses, and earn a B or higher, may receive college credit if they enroll and successfully complete six hours at the participating institution within 24 months of high school graduation. Students should see their counselor for additional requirements and information.

The following courses are approved articulated courses and may be considered for the Distinguished Achievement Program (DAP). This listing is subject to change. Please see the Career & Technical Education website for the most up-to-date listing.

Accounting I	Computer Maintenance	Law Enforcement
Advanced Animation	Correctional Services	Marketing Dynamics
Advanced Architectural Design	Culinary Arts I	Medical Terminology
Advertising & Sales Promotion	Digital & Interactive Media	Practicum in Educational Practice
Animation	Graphic Design & Illustration	Practicum in Graphic Design & Illustration
Architectural Design	Health Science	Practicum in Marketing Dynamics
Business Information Management I	Internet networking I (CISCO 1 & 2)	Survey of Hospitality & Tourism
Child Development	Internet networking II (CISCO 3 & 4)	Survey of Law
Child Guidance	Intro to Culinary Arts	Touch System Data Entry



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

- Business Information Management I
- Digital & Interactive Media
- Digital Graphics & Animation
- Web Technologies
- Computer Science or Pre-AP Computer Science
- Introduction to Engineering Design
- Architectural Design
- Yearbook **beginning 2014-2015 school year*
- Newspaper **beginning 2014-2015 school year*
- Computer Maintenance
- Journalism **beginning 2014-2015 school year*
- Broadcast Journalism
- Photojournalism **beginning 2014-2015 school year*

CTE Classes that may count (as credit or as a waiver) for FISD Graduation Credit as a 4th Science Credit in the RHSP & DAP HSP & the Foundation Graduation Plans:

- Medical Microbiology (1/2 Credit) - please read prerequisite information
- Pathophysiology (1/2 Credit) - please read prerequisite information
- Food Science
- Forensic Science- please read prerequisite information
- Advanced Animal Science - please read prerequisite information
- Advanced Plant & Soil Science- please read prerequisite information

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

- Digital Graphics & Animation
- Elements of Floral Design

CTE Classes that may count (as credit or as a waiver) for FISD Graduation Credit as a 4th Math Credit in the RHSP & DAP HSP & the Foundation Graduation Plans:

- AP Computer Science

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

- Health Science Technology – please read prerequisite information

The charts on p. 30-32 are the same pathways FISD developed to meet the Foundation Graduation Plan Endorsement Requirements as listed on p. 11-13.

The charts also contain the current CTE pathways that have been in place since 2006 for all students in Frisco ISD high schools.

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.



FISD ENDORSEMENT PATHWAYS*

1 st Course in Sequence	2 nd Course in Sequence	3 rd Course in Sequence	4 th Course in Sequence
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.			
Fine Arts - Art			
<input type="checkbox"/> Art 1 <input type="checkbox"/> PAP Art 1 (Class of 2018 & Beyond) <input type="checkbox"/> Digital Graphics & Animation - Fine Arts Credit	<input type="checkbox"/> Art 2 <input type="checkbox"/> AP Art - Drawing <input type="checkbox"/> Art 2 - Ceramics	<input type="checkbox"/> Art 3 <input type="checkbox"/> AP Art - 2D or 3D <input type="checkbox"/> AP Art - Drawing	<input type="checkbox"/> Art 4 <input type="checkbox"/> AP Art - 3D <input type="checkbox"/> AP Art History
Fine Arts - Dance			
<input type="checkbox"/> Dance 1	<input type="checkbox"/> Dance 2	<input type="checkbox"/> Dance 3	<input type="checkbox"/> Dance 4
Language			
<input type="checkbox"/> Spanish 1 <input type="checkbox"/> French 1 <input type="checkbox"/> Chinese 1 <input type="checkbox"/> ASL 1	<input type="checkbox"/> Spanish 2 or PAP Spanish 2 <input type="checkbox"/> French 2 or PAP French 2 <input type="checkbox"/> Chinese 2 <input type="checkbox"/> ASL 2	<input type="checkbox"/> Spanish 3 or PAP Spanish 3 <input type="checkbox"/> French 3 or PAP French 3 <input type="checkbox"/> PAP Chinese 3	<input type="checkbox"/> AP Spanish 4 <input type="checkbox"/> AP French 4 <input type="checkbox"/> Chinese 4
Fine Arts - Music			
<input type="checkbox"/> Band 1 <input type="checkbox"/> Orchestra 1 <input type="checkbox"/> Choir 1	<input type="checkbox"/> Band 2 <input type="checkbox"/> Orchestra 2 <input type="checkbox"/> Choir 2	<input type="checkbox"/> Band 3 <input type="checkbox"/> Orchestra 3 <input type="checkbox"/> Choir 3	<input type="checkbox"/> Band 4 <input type="checkbox"/> Orchestra 4 <input type="checkbox"/> Choir 4
Social Studies – Students must earn 5 total credits in Social Studies			
<input type="checkbox"/> World Geography <input type="checkbox"/> AP Human Geography	<input type="checkbox"/> World History OR AP World History <input type="checkbox"/> GT Humanities II / AP World History <input type="checkbox"/> AP Seminar	<input type="checkbox"/> US History or AP US History <input type="checkbox"/> Psychology (1/2) or AP Psychology (1/2) or Sociology (1/2) <input type="checkbox"/> AP European History <input type="checkbox"/> AP Seminar	<input type="checkbox"/> US Government (1/2) or AP US Government (1/2) <input type="checkbox"/> Economics (1/2) or AP Economics (1/2) <input type="checkbox"/> Dual Credit US Govt. (1/2) & Dual Credit Economics (1/2) <input type="checkbox"/> AP Seminar
Fine Arts - Theatre			
<input type="checkbox"/> Theatre Arts 1 <input type="checkbox"/> Tech Theater 1	<input type="checkbox"/> Theatre Arts 2 / Theatre Production 1 <input type="checkbox"/> Tech Theater 2	<input type="checkbox"/> Theatre Arts 3 / Theatre Production 2 <input type="checkbox"/> Tech Theater 3	<input type="checkbox"/> Theatre Arts 4 / Theatre Production 3 <input type="checkbox"/> Tech Theater 4
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.			
Advanced Journalism			
<input type="checkbox"/> Journalism or Photojournalism <input type="checkbox"/> Broadcast 1 <input type="checkbox"/> Debate 1	<input type="checkbox"/> Yearbook 1 <input type="checkbox"/> Broadcast 2 <input type="checkbox"/> Debate 2	<input type="checkbox"/> Yearbook 2 <input type="checkbox"/> Broadcast 3 <input type="checkbox"/> Debate 3	<input type="checkbox"/> Yearbook 3 <input type="checkbox"/> Video Technology <input type="checkbox"/> Adv Public Speaking
Agriculture, Food & Natural Resources – Animal Science			
<input type="checkbox"/> Companion Animal Mgmt (Small Animal) (1/2) <input type="checkbox"/> Livestock Production (Large Animal Mgmt) (1/2)	<input type="checkbox"/> Horse Production (Equine Science (1/2) <input type="checkbox"/> Wildlife, Fisheries, & Eco Mgmt (1/2) <input type="checkbox"/> CTEC – Veterinary Medical Applications	<input type="checkbox"/> CTEC – Practicum in Veterinary Medical Applications (2)	<input type="checkbox"/> CTEC – Advanced Practicum in Veterinary Medical Applications (2) <input type="checkbox"/> CTEC – Adv. Animal Science – Science Credit
Agriculture, Food & Natural Resources – Horticulture & Landscape Design			
<input type="checkbox"/> Survey of Agriculture, Food & Natural Res (1/2) <input type="checkbox"/> CTEC– Landscape & Turf Grass Mgmt (1/2)	<input type="checkbox"/> CTEC – Horticulture Science (1/2) <input type="checkbox"/> Elements of Floral Design - Fine Arts Credit	<input type="checkbox"/> CTEC – Adv. Horticulture & Floral Design	<input type="checkbox"/> CTEC – Adv Plant & Soil Science - Science Credit
Agriculture, Food & Natural Resource - Ag Mechanics			
<input type="checkbox"/> Agricultural Mechanics & Metal Technologies <input type="checkbox"/> Survey of Ag, Food & Natural Res (1/2) <input type="checkbox"/> Intro to Ag Mechanics & Metal Technology (1/2) <input type="checkbox"/> Business Information Management 1	<input type="checkbox"/> CTEC – Ag Facilities Design & Fabrication <input type="checkbox"/> CTEC – Agricultural Power Systems	<input type="checkbox"/> CTEC – Practicum in Ag Facilities Design & Fabrication (2)	<input type="checkbox"/> CTEC – Adv Practicum in Ag Facilities Design & Fabrication (2)



FISD ENDORSEMENT PATHWAYS*

1 st Course in Sequence	2 nd Course in Sequence	3 rd Course in Sequence	4 th Course in Sequence
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.			
Education & Training	<input type="checkbox"/> Survey of Education & Training (1/2) <input type="checkbox"/> Child Development (1/2) <input type="checkbox"/> Individual & Family Life (1/2)	<input type="checkbox"/> CTEC - Practicum in Educational Practice (2) <input type="checkbox"/> CTEC - Child Guidance & Mgmt. (2)	<input type="checkbox"/> CTEC - Adv. Practicum in Educ. Practice (2) <input type="checkbox"/> CTEC - Practicum in Child Guid. & Mgmt. (2)
Government & Public Administration	<input type="checkbox"/> Law 1 (1/2) <input type="checkbox"/> Law 2 (1/2)	<input type="checkbox"/> CTEC - Court Systems & Practices. <input type="checkbox"/> CTEC - Political Science	<input type="checkbox"/> CTEC - Mock Trial <input type="checkbox"/> CTEC - Practicum in Local Government & Law (2)
Health Science	<input type="checkbox"/> Health Science	<input type="checkbox"/> CTEC - Instructional Practice in Health Science Clinical Rotation (2) <input type="checkbox"/> CTEC - Instructional Practice in Health Science <input type="checkbox"/> Nursing Home Rotation (2) <input type="checkbox"/> Anatomy & Physiology <input type="checkbox"/> Dual Credit Medical Terminology (1/2) <input type="checkbox"/> Dual Credit Intro to the Healthcare System (1)	<input type="checkbox"/> CTEC - Practicum in Health Science Specialized (2) Dual Credit <input type="checkbox"/> CTEC - Practicum in Health Science Pharmacology (2) <input type="checkbox"/> Emergency Medical Technician (2) <input type="checkbox"/> CTEC - Pathophysiology (1/2) <input type="checkbox"/> CTEC - Medical Microbiology (1/2)
Law, Public Safety, Corrections, & Security	<input type="checkbox"/> CTEC - Law Enforcement <input type="checkbox"/> CTEC - Security Services	<input type="checkbox"/> CTEC - Emergency Communications & Dispatch <input type="checkbox"/> CTEC - Correctional Services	<input type="checkbox"/> CTEC - Forensic Science - Science Credit
STEM ENDORSEMENT - Unless noted, this endorsement can be earned with 4 credits in a coherent sequence. Please view the FISD Course Catalog for prerequisites and other specifics.			
Computer Science	<input type="checkbox"/> AP Computer Science <input type="checkbox"/> PAP Computer Science (Class of 2018 & Beyond)	<input type="checkbox"/> CTEC - Video Game Design. <input type="checkbox"/> Advanced Computer Science	<input type="checkbox"/> CTEC - Mobile Application Programming
Math - 5 Total Math Credits (Completion of TWO additional math courses AFTER completion of Algebra 2) - in addition to Chemistry & Physics	<input type="checkbox"/> Algebra 2 / PAP Algebra 2 <input type="checkbox"/> Computer Science	<input type="checkbox"/> Advanced Quantitative Reasoning <input type="checkbox"/> Pre-Calculus / PAP Pre-Calculus	<input type="checkbox"/> AP Statistics <input type="checkbox"/> Bus. Calculus (1/2) / College Algebra (1/2) - Dual Credit <input type="checkbox"/> AP Calculus AB <input type="checkbox"/> AP Calculus BC
Science - 5 Total Science Credits (Completion of TWO additional science courses AFTER completion of Physics) - In addition to Algebra 2	<input type="checkbox"/> Biology / PAP Biology <input type="checkbox"/> Chemistry / PAP Chemistry <input type="checkbox"/> Anatomy & Physiology <input type="checkbox"/> Physics / AP Physics 1	<input type="checkbox"/> Environmental Systems <input type="checkbox"/> AP Environmental Science <input type="checkbox"/> AP Biology <input type="checkbox"/> AP Chemistry <input type="checkbox"/> Earth & Space Science	<input type="checkbox"/> AP Physics B <input type="checkbox"/> AP Physics C <input type="checkbox"/> Medical Microbiology (1/2) & Pathophysiology (1/2) <input type="checkbox"/> Forensic Science (check pre-requisites) <input type="checkbox"/> Advanced Animal Science (check pre-requisites) <input type="checkbox"/> Food Science (check pre-requisites)
Science, Technology, Engineering & Mathematics	<input type="checkbox"/> CTEC - PLTW - Introduction to Engineering Design <input type="checkbox"/> Survey of Architecture & Construction (1/2)	<input type="checkbox"/> CTEC - PLTW - Digital Electronics <input type="checkbox"/> CTEC - PLTW - Aerospace Engineering	<input type="checkbox"/> CTEC - PLTW - Engineering Design & Development

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



FISD ENDORSEMENT PATHWAYS *

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.			
1 st Course in Sequence	2 nd Course in Sequence	3 rd Course in Sequence	4 th Course in Sequence
Architecture & Construction			
<input type="checkbox"/> Survey of Arch & Construction (1/2)	<input type="checkbox"/> CTEC – Architectural Design Interior Design	<input type="checkbox"/> CTEC – Adv Architectural Design Advanced Interior Design	<input type="checkbox"/> CTEC – Practicum in Arch Design (2) <input type="checkbox"/> CTEC – Practicum in Interior Design (2)
Arts, AV Technology & Communication			
<input type="checkbox"/> Digital & Interactive Media (DlM) <input type="checkbox"/> Digital Graphics & Animation – Fine Arts Credit <input type="checkbox"/> Broadcast Journalism 1	<input type="checkbox"/> CTEC - Graphic Design & Illustration (2) <input type="checkbox"/> CTEC – Animation (2) <input type="checkbox"/> Broadcast Journalism 2 <input type="checkbox"/> Fashion Design	<input type="checkbox"/> CTEC – Adv Graphic Design & Illustration (2) <input type="checkbox"/> CTEC – Advanced Animation 2D (2) <input type="checkbox"/> CTEC – Advanced Animation 3D (2) <input type="checkbox"/> CTEC – Audio & Video Production (2) <input type="checkbox"/> Advanced Fashion Design	<input type="checkbox"/> CTEC – Practicum in Graphic Design & Illus. (2) <input type="checkbox"/> CTEC – Practicum in Animation (2) <input type="checkbox"/> CTEC – Advanced Audio & Video Prod. (2)
Business Management & Administration			
<input type="checkbox"/> Survey of Business, Marketing & Finance (1/2)	<input type="checkbox"/> Entrepreneurship <input type="checkbox"/> Business Law (1/2)	<input type="checkbox"/> CTEC – Business Information Management 2 <input type="checkbox"/> Global Business (1/2)	<input type="checkbox"/> CTEC – Marketing Dynamics (3) (Meets one period)
Financial Systems			
<input type="checkbox"/> Survey of Business, Marketing & Finance (1/2)	<input type="checkbox"/> Banking & Financial Services (1/2) <input type="checkbox"/> Accounting 1 <input type="checkbox"/> Dollars & Sense (1/2)	<input type="checkbox"/> CTEC - Accounting 2 <input type="checkbox"/> CTEC – Securities & Investments (1/2) <input type="checkbox"/> CTEC – Money Matters (1/2)	<input type="checkbox"/> CTEC – Marketing Dynamics (3) (Meets one period)
Hospitality & Tourism			
<input type="checkbox"/> Survey of Hospitality & Tourism (1/2) <input type="checkbox"/> Travel & Tourism Management (1/2)	<input type="checkbox"/> Introduction to Culinary Arts <input type="checkbox"/> CTEC - Hotel Management <input type="checkbox"/> CTEC - Restaurant Management	<input type="checkbox"/> CTEC – Culinary Arts (2) <input type="checkbox"/> CTEC – Hospitality Services	<input type="checkbox"/> CTEC – Practicum in Culinary Arts (2) <input type="checkbox"/> Food Science – Science Credit <input type="checkbox"/> CTEC – Practicum in Hospitality Services (2)
Information Technology			
<input type="checkbox"/> Computer Maintenance I <input type="checkbox"/> Survey of Information Technology (1/2)	<input type="checkbox"/> CTEC - Web Technologies <input type="checkbox"/> Networking	<input type="checkbox"/> CTEC – Internet Working 1 (CISCO 1 & 2) <input type="checkbox"/> CTEC – Video Game Design	<input type="checkbox"/> CTEC – Internet Working (CISCO 3 & 4) – Dual Credit <input type="checkbox"/> CTEC – Mobile Application Programming
Marketing, Sales, & Service			
<input type="checkbox"/> Survey of Business, Marketing & Finance (1/2) <input type="checkbox"/> Fashion Marketing	<input type="checkbox"/> Sports & Entertainment Marketing (1) <input type="checkbox"/> Retailing & E-Tailing (1/2) <input type="checkbox"/> CTEC - Advertising & Sales Promotion (1/2)	<input type="checkbox"/> CTEC - Marketing Dynamics (3) (Meets one period)	<input type="checkbox"/> CTEC – Practicum in Marketing Dynamics (3) (Meets one period)
Sports & Entertainment Management			
<input type="checkbox"/> Business Information Management 1 <input type="checkbox"/> Digital & Interactive Media <input type="checkbox"/> Survey of Business, Marketing & Finance (1/2) <input type="checkbox"/> Survey of Hospitality & Tourism (1/2)	<input type="checkbox"/> Business Law (1/2) <input type="checkbox"/> CTEC - Advertising & Sales Promotion (1/2) <input type="checkbox"/> CTEC – Business Information Management 2	<input type="checkbox"/> Sports & Entertainment Marketing	<input type="checkbox"/> Sports Management (2)
MULTIDISCIPLINARY ENDORSEMENT – This is the recommended approach for this endorsement. Please view the FISD Course Catalog for prerequisites and other specifics.			
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)			
<input type="checkbox"/> English 1 / PAP English 1 / GT Humanities I <input type="checkbox"/> Biology / PAP Biology <input type="checkbox"/> Algebra 1 / PAP Algebra 1 <input type="checkbox"/> World Geography / AP Human Geography	<input type="checkbox"/> English 2 / PAP English 2 <input type="checkbox"/> Chemistry / PAP Chemistry <input type="checkbox"/> Geometry / PAP Geometry <input type="checkbox"/> World History / AP World History / GT Humanities II	<input type="checkbox"/> English 3 / AP English Language <input type="checkbox"/> Physics / AP Physics 1 <input type="checkbox"/> Algebra 2 / PAP Algebra 2 <input type="checkbox"/> US History / AP US History	<input type="checkbox"/> English 4 / AP English Literature <input type="checkbox"/> AP Physics 2 / AP Physics C / AP Biology / AP Chemistry / or other 4 th Science <input type="checkbox"/> Pre Calculus / AP Calculus / or other 4 th Math <input type="checkbox"/> Government (1/2) & Economics (1/2) or AP Government (1/2) & AP Economics (1/2)

Rev. 12/14/2015 Bold & Underlined Courses are “Advanced” CTE Courses Students may earn endorsements by completing the pathway requirements in addition to the FISD Foundation Plan requirements.

Agriculture, Food & Natural Sciences

Advanced Animal Science (CTEC) (1 credit) 12th grade **Prerequisite: 2 of 4 courses - Equine Science, Large Animal Management, Companion 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 count as a science credit.**

Advanced Horticulture and Floral Design (CTEC) (1 credit) 11th - 12th grade

Prerequisite: Elements of Floral Design or Horticulture Science

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.**

Advanced Plant and Soil Science (CTEC) (1 credit) 12th grade

Prerequisite: Advanced Horticulture & Floral Design

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 count as a science credit.**

Advanced Practicum in Agriculture Facilities Design & Fabrication (Level 3) (CTEC) (2 credits) 12th grade

Prerequisite: Practicum in Agriculture Facilities Design & Fabrication

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.**

Advanced Practicum in Veterinary Medical Applications (Level 3) (CTEC) (2 credits) 12th grade

Prerequisite: Practicum in Veterinary Medical Applications, Application Required

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. **Students must provide their own transportation to and from off-campus site.**

Agriculture Facilities Design and Fabrication (Level 1) (CTEC) (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.

Agricultural Mechanics & Metal Technologies (1 credit) 9th–12th grade

Prerequisite: None

To be prepared for careers in agricultural power, structural, and technical systems, students need to attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques.

Agricultural Power Systems (CTEC) (1 credit) 10th–12th grade

Prerequisite: Agricultural Mechanics & Metal Technologies

To be prepared for careers in agricultural power, structural, and technical systems, students should attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the workplace; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students should have opportunities to learn, reinforce, apply, and transfer their knowledge and technical skills in a variety of settings. This course is designed to develop an understanding of power and control systems as related to energy sources, small and large power systems, and agricultural machinery.

Companion Animal Mgt (Small Animal Mgt) (1/2 credit) 9th–12th grade

Prerequisite: None

To be prepared for careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings. Suggested small animals which may be included in the course of study include, but are not limited to, small mammals, amphibians, reptiles, avian, dogs, and cats.

Elements of Floral Design (1 credit) 10th–12th grade

Prerequisite: none

To be prepared for careers in floral design, students need to attain academic skills and knowledge as well as technical knowledge and skills related to horticultural systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply and transfer their knowledge and skills and technologies in a variety of settings. This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students develop respect for the traditions and contributions of diverse cultures. Students respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations. **Materials fee is required for this course. This course may count as a fine arts credit.**

Equine Science (Horse Production) (1/2 credit) 10th–12th grade

Prerequisite: none

To be prepared for careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. Suggested animals which may be included in the course of study include, but are not limited to, horses, donkeys, and mules.

Horticulture Science (Plant Production) (CTEC) (1/2 credit) 9th–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. This course allows students to experience a hands-on approach to managing a greenhouse, as well as the opportunity to experiment with different methods for stimulating plant growth. The course will prepare the student for the necessary requirements for a career in this field. As the student experiences the responsibility and rewards associated with horticulture, they will apply the skills that they have learned on

plants we grow in the greenhouse. 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.**

Introduction to Ag. Mechanics & Metal Technologies **9th–12th grade**
(1/2 credit)

Prerequisite: None

To be prepared for skills necessary for mastery of welding, agricultural power, structural, and technical systems, students need to attain academic skills and knowledge necessary to be proficient in basic metal working and wood working skills. This course will briefly go over safety, basic operation of power tools, woodworking tools, and metal working tools.

Landscape Design and Turf Grass Management **9th–12th grade**
(CTEC) (1/2 credit)

Prerequisite: None

To be prepared for careers in horticultural systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings. This course is designed to develop an understanding of landscape and turf grass management techniques and practices.

Large Animal Management **9th–12th grade**
(1/2 credit)

Prerequisite: None

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 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 in a variety of settings. Animal species to be addressed in this course may include, but are not limited to, beef cattle, dairy cattle, swine, sheep, goats, and poultry.

Practicum in Ag Facilities Design and Fabrication (Level 2) **11th–12th grade**
(CTEC) (2 credits)

Prerequisite: Agricultural Facilities Design & Fabrication or Ag Power Systems

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.

Practicum in Veterinary Medical Applications (Level 2) **11th–12th grade**
(CTEC) (2 credits) **(2017-2018 12th grade only)**

Prerequisite: Veterinary Medical Applications, Application Required

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

Survey of Agriculture, Food, and Natural Resources **9th–10th grade**
(1/2 credit)

Prerequisite: None

To be prepared for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. 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.

Veterinary Medical Applications (Level 1) **10th–12th grade**
(CTEC) (1 credit) **(2017-2018 11th- 12th grade only)**

Prerequisite: 2 of 3 courses-Equine Science, Large Animal Management, Companion Animal Management, or Wildlife, Fisheries and Ecology 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.

Wildlife, Fisheries, & Ecology Management **9th–12th grade**
(1/2 credit)

Prerequisite: None

To be prepared for careers in natural resource systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Through this course students will be introduced to conservation and preservation efforts as well as initiatives to preserve and protect our natural resources. Students will learn safe hunting practices and will have the opportunity to become certified in the area of Hunter Education. 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 management of game and non-game wildlife species, fish, and aqua crops and their ecological needs as related to current agricultural practices.

Architecture & Construction

Advanced Architectural Design **11th–12th grade**
(CTEC) (1 credit)

Prerequisite: Architectural Design

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

Advanced Interior Design (1 credit) **11th–12th grade**

Prerequisite: Interior Design

Advanced Interior Design 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 required for this course.**

Architectural Design (CTEC) (1 credit) **10th–12th grade**

Prerequisite: Survey of Architecture and Construction

In Architectural Design, students gain knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, and landscape architecture. Architectural design includes the knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for commercial or residential architectural purposes. **This course may count as a technology applications.**

Interior Design (1 credit) **10th–12th grade**

Prerequisite: None

Interior Design 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, construction, and furnishings to make wise consumer decisions, increase productivity, and compete in industry. **Materials fee may be required for this course.**

Practicum in Architectural Design **12th grade**
(CTEC) (2 credits)

Prerequisite: Advanced Architectural Design

This course is an occupationally specific course designed to provide technical instruction in architectural design. Safety and career opportunities are included in addition to work ethics and architectural design study.

Survey of Architecture and Construction (1/2 credit) 9th–12th grade

Prerequisite: None

This course provides an overview to the various fields of architecture, interior design, construction science, and construction technology. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, educational, and career information to set and achieve realistic career and educational goals. Job-specific, skilled training can be provided through the use of training modules to identify career goals in trade and industry areas. Safety and career opportunities are included, in addition to work ethics and job-related study in the classroom such as communications; problem solving and critical thinking; Information Technology Applications; systems; safety, health, and environmental; leadership and teamwork; ethics and legal responsibilities; employability and career development; technical skills; introduction to hand tools; introduction to power tools; basic rigging; and reading technical drawings.

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.

Audio and Video Production (CTEC) (2 credits) 11th–12th grade

Prerequisite: Broadcast Journalism 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.**

Arts, A/V Technology & Communication

Advanced Animation 2D (CTEC) (2 credits) 11th–12th grade

Prerequisite: Animation

Students will utilize skills learned in the prerequisite Animation course to further their knowledge in 2 dimensional animation techniques. This advanced level course will delve deeper into 2D software, and the students will learn concepts of how to create traditional hand drawn animation. The students will create an animation short project using their 2D animation skills to add to their portfolio. Software will include Adobe Flash, Adobe Photoshop, and Final Cut Pro.

Digital and Interactive Media (1 credit) 9th–12th grade

Prerequisite: None

Designing and creating multimedia projects for today's technology-driven society. The knowledge and skills acquired in this creative and engaging course will enable students to successfully create digital graphics, animations, video and audio projects. Examples of projects created are magazine covers, posters, advertisements, GIF's (or similar animations), radio commercials and a digital video. **This course may qualify as a technology applications credit.**

Advanced Animation 3D (CTEC) (2 credits) 11th–12th grade

Prerequisite: Animation

Students will utilize skills learned in the prerequisite Animation course to further their knowledge in 3 dimensional animation techniques. Creating an animation short, they will develop new characters, and enhance their skills in storyboarding, modeling, rigging and animating to add to their portfolio. Software will include Adobe Flash, Adobe Photoshop, Final Cut Pro, and Autodesk 3D Maya.

Digital Graphics 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 with modeling clay. This character concept will be incorporated into their projects using the various software applications Adobe Photoshop, Adobe Flash, and Autodesk Maya. Materials fee may be required for this course. This course may qualify as a fine arts credit. **This course may qualify as a fine arts and technology applications credit.**

Advanced Audio and Video Production (CTEC)(2 credits) 12th grade

Prerequisite: Audio/Video Production

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.**

Fashion Design (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. **Materials fee required for this course.**

Advanced Fashion Design (1 credits) 11th–12th grade

Prerequisite: Fashion Design

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. **Materials fee required for this course.**

Graphic Design and Illustration (CTEC) (2 credits) 10th–12th grade

Prerequisite: Digital & Interactive 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. **Materials fee may be required for this course.**

Advanced Graphic Design & Illustration (CTEC) (2 credits) 11th–12th grade

Prerequisite: Graphic Design & Illustration

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 required for success in visual communication industries. Students designs must show original and inventive ideas while utilizing industry and market trends. Software focus is in Adobe Photoshop and Adobe Illustrator. **Materials fee may be required for this course.**

Practicum in Graphic Design & Illustration (CTEC)(2 credits) 12th grade

Prerequisite: Advanced Graphic Design and Illustration, Passing Score on the Adobe Certified Associate Exam in Visual Communications, Application & Portfolio Review Required, Interview by Intern Site

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 regards 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.**

Animation (CTEC) (2 credits) 10th–12th grade

Prerequisite: Digital Graphics and Animation, Art Recommended

Animation is a continuation of the material learned in the digital graphics and animation coursework and focuses on Maya, a 3-D industry standard advanced software. Students taking this course should have a desire to learn storyboarding, 3-D modeling, and texturing and rigging. Careers in animation span all aspects of motion graphics. Within

Business, Management & Administration

Business Information Management I 9th–12th grade (1 credit)

Prerequisite: None

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society. Students apply technical skills to, create word-processing documents, develop spreadsheets, formulate databases, as well as create and animate electronic presentations using Microsoft's Office - software. These skills will assist students in making a successful transition to the postsecondary education and the workforce. This course may count as a technology applications credit.

Business Information Management II (CTEC) (1 credit) 10th–12th grade

Prerequisite: Business Information Management I

Students apply advanced technical skills to create advanced word-processing documents, develop advanced spreadsheets, formulate advanced databases for use within corporate or small business inventory purposes, as well as create and animate advanced electronic presentations using Microsoft's Office software. Students will have the option to become certified as a Microsoft Office Specialist (**exam fee will apply**).

Business Law (1/2 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.

Entrepreneurship (1 credit) 10th–12th grade

Prerequisite: None

Students will gain the knowledge and skills needed 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..

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.

Survey of Business, Marketing, and Finance (1/2 credit) 9th–12th grade

Prerequisite: None

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 including a basic understanding of credit and consumer economics. 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.

Computer Science

Computer Science (1 credit) 9th–12th grade

Prerequisite: Geometry or concurrent enrollment

This is a beginner's level approach to computer programming using the Java language. No previous knowledge of programming is necessary. Students will develop and apply algorithms to solve real-world problems. Programming concepts will be taught using structured programming techniques such as data types, program input/output, if statements, loops, arrays, and lists. Object-oriented programming will also be introduced. Other topics include debugging, hardware components, and social implications of computer systems. Upon completion of this course, the student will have created software programs using computer science programming concepts. This course may count as a Technology Applications course.

Pre-AP Computer Science (1 credit)

Entering 9th grade in 2014-15 or after

Prerequisite: Geometry or concurrent enrollment

Pre-AP CS covers the same topics as on-level Computer Science but in greater depth and rigor. No previous knowledge of programming is necessary; however students need excellent reasoning abilities and problem solving skills. Object-oriented concepts will receive more emphasis. This course is designed as a preparation for programming at the college level. This course may count as a Technology Applications 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.

AP Computer Science (1 credit) 10th–12th grade

Prerequisite: Computer Science or PAP Computer Science

This course continues the study of computer programming using the Java language. Object oriented programming and class design will be studied in depth. Topics include 2D arrays, searching and sorting algorithms, and recursion. Social and ethical ramifications of computer in society will also be addressed. Programming assignments will, in general, be more extensive, and include the use of case studies. This course is intended for students who want to pursue careers in computer science, mathematics, engineering, or science. This college level course prepares students for the Advanced Placement Computer Science "A" Exam. This course may qualify as a fourth mathematics credit towards graduation.

Video Game Design (CTEC) (1 credit) 10th–12th grade

Prerequisite: Computer Science, PAP Computer Science or AP Computer Science

Students will learn game design and programming concepts. Students must have mastered the topics previously covered in Computer Science. This mastery is needed for study of programming topics including: game state and the game loop, basic display and interaction of on-screen objects, user interface design, and 2D side scrolling techniques. Students will program using the C# language in the Visual Studio environment. Our primary game platform will be the PC; some students may program for other platforms. Design topics will include: story, mechanics & dynamics, chance, strategy, balance, and level design. Multiple team projects will expose students to the challenges of working in teams and develop interpersonal skills.

Mobile Application Programming (CTEC) (1 credit) 11th–12th grade

Prerequisite: Computer Science, PAP Computer Science or AP 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.

Education & Training

Advanced Practicum in Educational Practice (Level 2) (CTEC) (2 credits) 12th grade

Prerequisite: Practicum in Education Practice, Application 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. Fingerprint and/or background checks may be required. Students must provide their own transportation to and from the off-campus field sites.

Child Development (1/2 credit)**10th–12th grade****Prerequisite: None**

This technical laboratory course addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Child Guidance and Management (Level 1) (CTEC) (2 credits)**11th–12th grade****Prerequisite: Survey of Education & Training AND Child Development, Application Required**

This laboratory course addresses the knowledge and skills related to child 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. Supply list and fees required. A TB test is required, and fingerprint and/or background checks may be required. Students must provide their own transportation to and from the off-campus field sites.

Individual and Family Life (1/2 credit)**10th–12th grade****Prerequisite: None**

This course examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services. 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 & Management (Level 2) (CTEC) (2 credits)**12th grade****Prerequisite: Child Guidance and Management, Application 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, formation 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. Supply list and fees required. A TB test is required, and fingerprint and/or background checks may be required. Students must provide their own transportation to and from the off-campus field sites.

Practicum in Educational Practice (Level 1) (CTEC) (2 credits)**11th–12th grade****Prerequisite: Survey of Education & Training AND Child Development, Application Required**

Instructional Practices in Education and Training is a field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood 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. Fingerprint and/or background checks may be required. Students must provide their own transportation to and from the off-campus field sites.

Survey of Education and Training (1/2 credit)**9th–12th grade****Prerequisite: None**

This course is designed to introduce learners to the various careers available within the education and training career cluster. Students use self-knowledge and educational and career information to analyze various careers within the education and training career cluster. Students will also gain an understanding of the basic knowledge and skills essential to careers within the education and training career cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.

Finance**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 will be required for this course.

Accounting II (CTEC) (1 credit)**11th–12th grade****Prerequisite: Accounting I**

Students continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage in various managerial and cost accounting activities. Students formulate and interpret financial information for use in management decision making. Students practice appropriate journalizing skills, and are introduced to Peachtree accounting software that will prepare them for conducting accounting business in the workforce. Materials fee may be required for this course.

Banking and Financial Services (1/2 credit)**10th–12th grade****Prerequisite: None**

Students develop knowledge and skills in the economical, 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.

Money Matters (CTEC) (1/2 credit)**11th–12th grade****Prerequisite: None**

Students will investigate money management from a personal financial perspective. Students apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to establish short-term and long-term financial goals. Students will examine various methods of achieving short-term and long-term financial goals through several means such as investing, tax planning, asset allocating, risk management, retirement planning, and estate planning. Materials fee may be required for this course.

Securities and Investments (CTEC) (1/2 credit)**11th–12th grade****Prerequisite: None**

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**Court Systems and Practices (CTEC) (1 credit)****11th–12th grade****Prerequisite: None (2017-18 Prerequisite: Law I/Law 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.

Law I: History of Law (CTEC) (1/2 credit)**10th–12th grade****Prerequisite: None**

This course covers the Philosophical Origins & Purpose of Law and influences on Constitutional Thought. The course introduces students to the foundations of government and then focuses on the state and federal Judiciary System within the United States. Students will examine governmental documents such as the United States Constitution and the Bill of Rights. The course also provides an introduction to Constitutional Case Law. This course will provide a knowledge base for students interested in governmental law or the law profession and supports AcDec and Mock Trial. **This course includes online curriculum.**

Law II: Civil Law and Criminal Law 10th–12th grade
(CTEC) (1/2 credit)

Prerequisite: Law I

This course provides a more in-depth study of topics such as civil rights, criminal law, juvenile justice, torts, consumer law, family law, political activism, the role of media in modern law, and career opportunities within the United States legal system. Students will examine documents such as the United States Constitution, the Bill of Rights, federal statutes, and unique state statutes. The course also provides a more thorough study of civil and criminal trial procedures and allows for the participation in Mock Trials of historical and more recent importance.

Mock Trial (CTEC) (1 credit) 11th–12th grade

Prerequisite: Speech (2017-18 Prerequisite: Court Systems or Political Science)

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. This course requires significant public speaking and intensive writing skills. **Repeat enrollment not permitted. Lab fee required.**

Political Science I (CTEC) (1 credit) 11th–12th grade

Prerequisite: Law I or Court Systems

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.

Practicum in Local Government and Law 11th–12th grade
(CTEC) (2 credits)

Prerequisite: Political Science OR Court Systems & Practices OR Mock Trial, Application & Curricula Vitae Required (2017-18 Prerequisite: Mock Trial AND Political Science OR Court Systems & Practices, Application & Curricula Vitae Required)

The practicum course is an unpaid capstone experience for students participating in a coherent sequence of courses in the Government and Public Administration cluster. Students concurrently learn advanced concepts of political science, criminal, and civil law in the classroom setting. In addition, students will apply technical skills pertaining to government and public administration in a direct mentorship by individuals in professional settings such as government, public management and administration, criminal and civil litigation, municipal planning, foreign service, revenue, taxation, and regulation. Materials fee may be required for this course. Students must provide their own transportation to and from the off-campus field site. Fingerprint and/or background check may be required based on field site.

Health Science Technology

Emergency Medical Technician 12th grade
(CTEC)(2 credits)

Prerequisite: Instructional Practice in Health Science, Application Required, Collin College Dual Credit Enrollment Required Dual Credit with Collin College – EMSP 1371 Intro to EMT, EMSP 1501 EMT, EMSP 1160 Clinical-EMT

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.

Health Science (Level 1) (1 credit) 10th–12th grade

Prerequisite: Biology and Medical Terminology

This course explores the health care industry and requirements for entry to health careers. The content relates to the organization of health care, patient relationships, working environments, and ethical and legal responsibilities of the health care worker. To pursue a career in the health science industry, students should recognize, learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. Materials fee may be required for this course.

Instructional Practice in Health Science - 11th–12th grade
CLINICAL ROTATION
(CTEC) (2 credits) (Level 2)

Prerequisite: Health Science, Application Required (2017-18 Prerequisite: Health Science, AND Co/Prerequisite Anatomy & Physiology)

Articulated with Collin College - HPRS 1271 Intro to Healthcare System

This course is designed to give students practical application of previously studied knowledge and skills. The first part of the course is spent in intensive training of skills and theory needed to pass the Certified Nurse Aide exam. The remainder of the course is spent on practicum experiences in a variety of health related locations during a CLINICAL rotation. To pursue a career in the health science industry, students should learn to

reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology, and safety requirements of each system. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education and employment. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions. A TB test is required for this course. Materials fee may be required for this course. Materials fee ranging from \$125-\$150 required for this course. Students must provide their own transportation to and from off-campus site.

Instructional Practice in Health Science - 11th–12th grade
NURSING HOME ROTATION
(CTEC) (2 credits) (Level 2)

Prerequisite: Health Science, Application Required (2017-18 Prerequisite: Health Science, AND Co/Prerequisite Anatomy & Physiology)

Articulated with Collin College - HPRS 1271 Intro to Healthcare System

This course is designed to give students practical application of previously studied knowledge and skills. The course concentrates on intensive training of skills and theory needed to pass the Certified Nurse Aide exam at the end of the program. Students will be given the opportunity to participate in a practicum experience through a NURSING HOME rotation. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology, and safety requirements of each system. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education and employment. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions A TB test is required for this course. Materials fee may be required for this course. Materials fee ranging from \$125-\$150 required for this course. Students must provide their own transportation to and from off-campus site.

Medical Microbiology - (1/2 credit) (CTEC) 11th - 12th grade
Other 1/2 credit from Pathophysiology to count for 4th science credit

Prerequisite: Biology, Chemistry, Anatomy and Physiology

Medical Microbiology is a college preparatory and laboratory-oriented course that will provide opportunities for the student to identify and culture microorganisms that are of interest in the medical field. The student will learn lab techniques for working safely with microorganisms and will investigate the physiological effects of various microorganisms on the human body. The course is intended to provide high school exposure to microbiology concepts for the student who is particularly interested in a health-related career track or for the student who is interested in the biological sciences. This course may count as 1/2 of the 4th science credit. Materials fee may be required for this course.

Medical Terminology (1/2 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.

Pathophysiology - (1/2 credit) (CTEC) 11th - 12th grade
Other 1/2 credit from Medical Microbiology to count for 4th science credit

Prerequisite: Biology, Chemistry, Anatomy and 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. This course may qualify as 1/2 of the 4th science credit. Materials fee may be required for this course.

Practicum in Health Science-Pharmacology 12th grade
(Level 2) (CTEC) (1 credit)

Prerequisite: Health Science, Application Required

This course will equip students with knowledge, technical skills, and work habits required for an entry-level position in the pharmacy field or related area. They will develop an understanding of pharmaceuticals and its impact on the health care 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). In addition, students will have the opportunity to sit for the Pharmacy Technician Certification Exam (PTCE) once they successfully complete the course and graduate. **A drug screening, TB testing and Flu vaccine is required for this course. Materials fee will be required for this course. Students must provide their own transportation to and from off-campus site.**

Practicum in Health Science-Specialized Rotation (Level 3) (CTEC) (2 credits)

12th grade

Prerequisite: Instructional Practices in Health Science, Application Required, Collin College Dual Credit Enrollment Required

Dual Credit with Collin College -DSAE 1340 Diagnostic Electrocardiography & ECRD 1111 Electrocardiography

This course is an occupationally specific course designed to give students practical application of previously studied knowledge and skills for certification or licensure in an allied health career. Students continue development of clinical skills, including earning an Electrocardiogram Technical Certification. This course prepares students for employment in hospitals or other health care settings under the supervision of registered nurses or physicians. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions. **ATB test, flu shot and drug screening is required for this course. Materials fee required for this course. Students must provide their own transportation to and from off-campus site.**

Hospitality and Tourism

Culinary Arts (Level 1) (CTEC) (2 credits)

11th–12th grade

Prerequisite: Introduction to Culinary Arts, ServSafe Certification - Application 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. Students will focus directly on cafe and bakery production which consists of cold foods and baked goods. Students can pursue a Texas culinary specialist certification or any other appropriate industry certification. 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.**

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 count as a science credit.**

Hospitality Services (CTEC) (1 credits)

11th–12th grade

Prerequisite: Hotel Management, Restaurant Management or Travel & Tourism Management

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. **Course fee required for Certified Tourism Ambassador Certification.**

Hotel Management (CTEC) (1 credit)

10th–12th grade

Prerequisite: Survey of Hospitality & Tourism or Travel & Tourism Management (2017-18 Prerequisite: Survey of Hospitality & Tourism only)

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 guest room collaborating with the CTEC Architecture class. 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.**

Introduction to Culinary Arts (1 credit)

10th–12th grade

Prerequisite: None

This course is designed to introduce students to fundamentals of nutrition, wellness as well as basic food preparation including fundamental methods and concepts in the culinary arts in which laboratory practice will parallel class work. Additional topics covered include: food safety & sanitation and principles of lifetime nutrition & wellness. 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. During this full year course, students will have the opportunity to pursue a national food safety certification (ServSafe Kitchen Manager Certification). **Materials fee will be required for this course.**

Practicum in Culinary Arts (Level 2) (CTEC) (2 credits)

12th grade

Prerequisite: Culinary Arts, Application Required

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

Practicum in Hospitality Services (CTEC) (2 Credits)

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.**

Restaurant Management (CTEC) (1 credit)

10th–12th grade

Prerequisite: Survey of Hospitality & Tourism or Travel & Tourism Management

Students will learn about the exciting, fast-paced food & beverage industry. During the year, Restaurant Management students will plan and develop their own restaurant concept while collaborating with other CTE Center classes including Web Design, Architecture and Graphic Design & Illustration. Students will gain insight into the daily operations of a well-managed restaurant. The course will offer a variety of learning opportunities including classroom instruction, hands-on instruction and project-based learning. Students will also participate in an observation rotation at Studio 08, the CTE Center student-run restaurant and deli. 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.

Survey of Hospitality and Tourism (1/2 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.

Travel and Tourism Management (1/2 credit) 9th–12th grade

Prerequisite: None (2017-18 Prerequisite: Survey of Hospitality & Tourism, Grades 10-12)

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..

Information Technology

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.

AP Computer Science (1 credit) 10th–12th grade

Prerequisite: Computer Science or PAP Computer Science

This course continues the study of computer programming using the Java language. Object oriented programming and class design will be studied in depth. Topics include 2D arrays, searching and sorting algorithms, and recursion. Social and ethical ramifications of computer in society will also be addressed. Programming assignments will, in general, be more extensive, and include the use of case studies. This course is intended for students who want to pursue careers in computer science, mathematics, engineering, or science. This college level course prepares students for the Advanced Placement Computer Science "A" Exam. **This course may qualify as a fourth mathematics credit towards graduation.**

Computer Maintenance (1 credit) 9th–12th grade

Prerequisite: Algebra I

Articulated with Collin College - CPMT 1305 IT Essentials

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 count as a Technology Applications course.**

Computer Science (1 credit) 9th–12th grade

Prerequisite: Geometry or concurrent enrollment

This is a beginner's level approach to computer programming using the Java language. No previous knowledge of programming is necessary. Students will develop and apply algorithms to solve real-world problems. Programming concepts will be taught using structured programming techniques such as data types, program input/output, if statements, loops, arrays, and lists. Object-oriented programming will also be introduced. Other topics include debugging, hardware components, and social implications of computer systems. Upon completion of this course, the student will have created software programs using computer science programming concepts. **This course may count as a Technology Applications course.**

Internetworking I 11th–12th grade

CISCO I and II (CTEC) (1 credit)

Prerequisite: Computer Maintenance OR Networking recommended

Articulated with Collin College - ITCC 1371 CCNA 1 Cisco & ITCC 1374 CCNA 2 Cisco

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 12th grade

CISCO III and IV (CTEC) (1 credit) DUAL CREDIT

Prerequisite: Internet Working I (full year), passing score on CISCO I and II exam, Collin College Dual Credit Enrollment Required

Dual Credit with Collin College - ITCC 2371 CCNA 3 Cisco & ITCC 2372 CCNA 4 Cisco

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.**

Mobile Application Programming (CTEC) (1 credit) 11th–12th grade

Prerequisite: Computer Science, PAP Computer Science or AP 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.

Networking (1 credit) 10th–12th grade

Prerequisite: Computer Maintenance recommended

Articulated with Collin College - ITNW 1358 Network +

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.

Pre-AP Computer Science (1 credit)

Entering 9th grade in 2014-15 or after

Prerequisite: Geometry or concurrent enrollment

Pre-AP CS covers the same topics as on-level Computer Science but in greater depth and rigor. No previous knowledge of programming is necessary; however students need excellent reasoning abilities and problem solving skills. Object-oriented concepts will receive more emphasis. This course is designed as a preparation for programming at the college level. **This course may count as a Technology Applications course.**

Survey of Information Technology (1/2 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.

Video Game Design (CTEC) (1 credit) 10th–12th grade

Prerequisite: Computer Science, PAP Computer Science or AP Computer Science

Students will learn game design and programming concepts. Students must have mastered the topics previously covered in Computer Science. This mastery is needed for study of programming topics including: game state and the game loop, basic display and interaction of on-screen objects, user interface design, and 2D side scrolling techniques. Students will program using the C# language in the Visual Studio environment. Our primary game platform will be the PC; some students may program for other platforms. Design topics will include: story, mechanics & dynamics, chance, strategy, balance, and level design. Multiple team projects will expose students to the challenges of working in teams and develop interpersonal skills.

Web Technologies (1 credit)

10th–12th grade

Prerequisite: Digital Graphics and Animation or Digital and Interactive Media

Through the study of web technologies and design, students learn to make informed decisions and apply the decisions to the field of information technology. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will learn the abilities to be able to use digital media to plan, design, build, and maintain effective communications. The goal of this class will be for students to gain certification from Adobe Digital Media in software such as Flash and Dreamweaver (exam fee will apply). Course is project based and students must be self-motivated and willing to put in the time and effort necessary to complete projects. **This course may qualify as a technology applications credit.**

Law, Public Safety, Corrections & Security

Correctional Services (CTEC) (1 credit)

11th–12th grade

Prerequisite: Security Services or Law Enforcement (2017-18 Prerequisite: Law Enforcement only)

In Correctional Services, students prepare for certification required for employment as a correctional officer. The student will learn the role and responsibilities of a correctional officer; discuss relevant rules, regulations, and laws; and discuss defensive tactics, restraint techniques, and first aid procedures as used in the correctional setting. The student will analyze rehabilitation and alternatives to institutionalization.

Emergency Communications & Dispatch (CTEC) (1 credit)

11th–12th grade

Prerequisite: Correctional Services or Law Enforcement or Security Services

The Emergency Telecommunications Course is designed to introduce students to the exciting and challenging field of Emergency Telecommunications. The course covers the roles and responsibilities of emergency telecommunicators, emergency telecommunication technologies, telecommunication essentials, call management, call classification (police, fire and medical), disaster preparedness and readiness for ETCs, radios and radio broadcast procedures, legal aspects of public safety communication, quality assurance/ quality improvement, and dispatch stress.

Forensic Science (CTEC) (1 credit)

12th grade

Prerequisite: Law Enforcement, Security Services, Correctional Services, Biology & Chemistry (2017-18 Prerequisite: Law Enforcement, Biology, and Chemistry only)

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 count as a science credit.**

Law Enforcement (CTEC) (1 credit)

10th–12th grade

Prerequisite: Survey of Law, Public Safety, Corrections, and Security

Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. 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.

Security Services (CTEC) (1 credit)

10th–12th grade

Prerequisite: Survey of Law, Public Safety, Corrections, and Security

Security Services provides the knowledge and skills necessary to prepare for certification in security services. The course provides an overview of security elements and types of organizations with a focus on security measures used to protect lives, property, and proprietary information.

Survey of Law, Public Safety, Corrections, and Security (CTEC) (1/2 credit)

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. This course is the prerequisite for all courses in Law, Public Safety, Corrections and Security pathway.

Marketing, Sales & Services

Advertising and Sales Promotion (CTEC) (1/2 credit)

10th–12th grade

Prerequisite: None

Advertising and Sales Promotion 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.

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 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.**

Marketing Dynamics

11th–12th grade

(CTEC & Home Campus) (3 credits)

Marketing Work-Based Learning (Level 1)

Prerequisite: Application Required

Marketing is a series of dynamic activities that focus on the customer to generate a profitable exchange. Through approved course required employment, students gain knowledge and skills that help them to be 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. Skills learned in class are then applied to the student's paid job. 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. **DECA membership fee is required for this course. Students must provide their own transportation to and from off-campus career preparation site.**

Practicum in Marketing Dynamics (CTEC & Home Campus) (3 credits)

12th grade

Marketing Work-Based Learning (Level 2)

Prerequisite: Marketing Dynamics, Application Required

Through approved course required employment, 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, and customer-service skills. The practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. 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 embedded DECA principles and project-based learning that will give the students the opportunity to apply newly acquired marketing skills in real world situations. **DECA membership fee is required for this course. Students must provide their own transportation to and from off-campus site.**

Retailing and E-tailing (1/2 credit)

10th–12th grade

Prerequisite: None

Students will have the opportunity to develop skills that involve electronic media techniques necessary for a business to compete in a global economy. Students will coordinate online and off-line marketing. Students will demonstrate critical-thinking skills using decision-making models, case studies, various technologies, and business scenarios. 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 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.

Sports Management (2 Credits) (CTEC & Home Campus)**11th–12th grade****Prerequisite: Sports & Entertainment Marketing AND at least one of the following courses: Advertising & Sales Promotion, or Travel and Tourism; Application Required**

The Sports Management course is an Internship Program for second year Sports & Entertainment Marketing students who are serious about pursuing a career in sports and/or entertainment fields. Work experience will consist of an unpaid internship with one or more businesses over the course of the school year. Possible areas of work include but are not limited to: Ticket Sales, Customer Service, Facility and Event Operations, Social Media and Web Development, Public Relations and Communications, Athletic Training Center Operations and Marketing Sales and Service. In addition to the internship experience, time will also provide enrichment opportunities including guest speakers, class and virtual instruction, and on-site visits to venues in Frisco and the Dallas/Fort Worth area pertaining to sports and entertainment. Since students in this class will be functioning directly in a sports/entertainment environment, it is important that they have excellent communication, computer, reading and writing skills. DECA membership fee is required for this course. Students must provide their own transportation to and from off-campus internship site.

Survey of Business, Marketing, and Finance (1/2 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. Materials fee may be required for this course.

Science, Technology, Engineering & Mathematics

Project Lead The Way — Pre-Engineering Program (PLTW) Students may begin the four year program in the 9th grade, with principal approval, or later, but must follow the Pre-Engineering Program of Study for the training and education to be the most effective.

PLTW - Aerospace Engineering (CTEC) (1 credit)**11th–12th grade****Prerequisite: Full Principles of Engineering Credit**

Aerospace Engineering (AE) is a course that will expose students to the world of aeronautics, flight, and engineering. Lessons will engage students in engineering design problems related to aerospace information systems, astronautics, rocketry, propulsion, the physics of space science, space life sciences, the biology of space science, principles of Aeronautics, structures and materials, and systems engineering. Students design intelligent vehicles and learn about documenting their project, solving problems, and communicating their solutions to their peers and members of the professional community. This course is a portion of the FISD Pre-Engineering Program that is associated with “Project Lead the Way” curriculum that can lead to university credit. Materials fee may be required for this course.

PLTW - Civil Engineering & Architecture (CTEC) (1 credit)**10th–12th grade****Prerequisite: Full Introduction to Engineering Design Credit**

Civil Engineering and Architecture (CEA) is a course that is structured to enable all students to have a variety of experiences that will provide an overview of both fields. Students work in teams, exploring hands-on projects and activities to learn the characteristics of civil engineering and architecture. In addition, students use Rivet, which is a state of the art 3D design software package from Autodesk, to help them design solutions to solve their major course project. This course is a portion of the FISD Pre-Engineering Program that is associated with “Project Lead the Way” curriculum that can lead to university credit. Materials fee may be required for this course.

PLTW - Digital Electronics (CTEC) (1 credit)**11th–12th grade****Prerequisite: Full Credit of Principles of Engineering**

Digital Electronics (DE) is the study of electronic circuits that are used to process and control digital signals. The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. Students will analyze, design and build digital electronic circuits. This course is a portion of the FISD Pre-Engineering Program that is associated with “Project Lead the Way” curriculum that can lead to university credit. Materials fee may be required for this course.

PLTW - Engineering Design and Development (CTEC) (1 credit)**12th grade****Prerequisite: Full Principles of Engineering credit and 3rd PLTW course or concurrently taking 3rd PLTW course**

Engineering Design and Development (EDD) is a research course that requires students to formulate the solution to an open-ended engineering question. With a community mentor and skills gained in their previous courses, students create written reports on their applications, defend the reports, and submit them to a panel of outside reviewers at the end of the school year. This course is a portion of the FISD Pre-Engineering Program that is associated with “Project Lead the Way” curriculum that can lead to university credit. Materials fee may be required for this course.

PLTW - Introduction to Engineering Design (CTEC) (1 credit)**9th–12th grade****Prerequisite: Full Algebra I Credit**

Introduction to Engineering Design (IED) is a high school level course that is appropriate for any high school students who are interested in design and engineering. The major focus of the IED course is to expose students to design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. IED gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based learning. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges that increase in difficulty throughout the course. In addition, students use Inventor, which is a state of the art 3D design software package from Autodesk, to help them design solutions to solve proposed problems. Students will also learn how to document their work, and communicate their solutions to their peers and members of the professional community. This course is a portion of the FISD Pre-Engineering Program that is associated with “Project Lead the Way” curriculum that can lead to university credit. Materials fee may be required for this course. This course may qualify as a technology applications credit.

PLTW - Principles of Engineering (CTEC) (1 credit)**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.

Dual Credit - Collin College

AC Circuits - Electronics 3 (1/2 credit) 11th–12th grade

Prerequisite: None

A study of the fundamentals of alternating current including series and parallel AC circuits, phasors, capacitive and inductive networks, transformers, and resonance. Lab required. 4 credit hours.

College Engineering (1/2 credit) 11th–12th grade

Prerequisite: None

Introduction to engineering as a discipline and a profession. Includes instruction in the application of mathematical and scientific principles to the solution of practical problems for the benefit of society. 4 credit hours.

DC Circuits - Electronics 1 (1/2 credit) 11th–12th grade

Prerequisite: None

A study of the fundamentals of direct current including Ohm's law, Kirchoff's laws and circuit analysis techniques. Emphasis on circuit analysis of resistive networks and DC measurements. Lab required. 4 credit hours.

Internetworking II 12th grade

CISCO III and IV (CTEC) (1 credit)

DUAL CREDIT

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.**

ITSY 1300 Fundamentals of Information Security (Security +) 12th grade

DUAL CREDIT

Prerequisite: Internet Working II (full year), passing score on CISCO III and IV exam, Collin College Dual Credit Enrollment Required

An introduction to information security including vocabulary and terminology, ethics, the legal environment, and risk management. Identification of exposures and vulnerabilities and appropriate countermeasures are addressed. The importance of appropriate planning, policies and controls is also discussed. 3 credit hours (2 lecture hours, 3 lab hours)

ITSY 2300 Operating Systems Security 12th grade

DUAL CREDIT

Prerequisite: Internet Working II (full year), passing score on CISCO III and IV exam, Collin College Dual Credit Enrollment Required

Safeguard computer operating systems by demonstrating server support skills and designing and implementing a security system. Identify security threats and monitor network security implementations. Use best practices to configure operating systems to industry security standards. 3 credit hours (2 lecture hours, 2 lab hours)

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.

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

HPRS 1271 Introduction to the Healthcare System (ONLINE) 11th–12th grade

FISD Prerequisite: Health Science

An overview of roles of various members of the healthcare system and their educational requirements, and issues affecting the delivery of healthcare. Additional concepts explored include the healthcare system, the continuum of care, levels of care, length of stay, healthcare providers, legal and ethical aspects of healthcare, reimbursement, healthcare policy determination and health insurance and managed care. 2 credit hours.

The following courses are included as part of the FISD Emergency Medical Technician course.

EMSP 1371 Introduction to Emergency Medical Technician (EMT) 12th grade

FISD Prerequisite: Instructional Practice in Health Science, Application 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: Instructional Practice in Health Science, Application Required, 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 Technician (EMT Paramedic)-Basic 12th grade

FISD Prerequisite: Instructional Practice in Health Science, Application 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 Practicum in Health Science-Specialized Rotation course.

DSAE 1340 Diagnostic Electrocardiography 12th grade

FISD Prerequisite: Instructional Practice in Health Science, Application 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: Instructional Practice in Health Science, Application 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