

FISD



HIGH SCHOOL



COURSE CATALOG



2011-2012



Frisco Independent School District
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Frisco ISD Mission Statement

By providing a unique learning environment that maximizes student opportunity and invests in meaningful relationships, the mission of the Frisco Independent School District is to partner with parents and community in developing caring citizens equipped to continue learning and pursue their aspirations.

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.

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 STAAR/End of Course (EOC) examination implementation. This document will be updated as more information becomes available.

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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 the examination of a wide variety of literary and informational texts. As writers, students apply conventions of the English language as they compose a range of written texts that contain clear controlling ideas, coherent organization, and elaboration. Students locate relevant sources, evaluate information, and synthesize it to support their ideas. Oral communication is reinforced as students comprehend and respond to the ideas of others while contributing their own ideas in class discussion and in groups. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

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. Students are encouraged to purchase or obtain personal copies of novels for use in this class. Summer reading is required. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

Principles/Applied 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.

Basic 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.

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 examination of a wide variety of literary and informational texts. As writers, students apply conventions of the English language as they compose a range of written texts that contain clear controlling ideas, coherent organization, and elaboration. Students locate relevant sources, evaluate information, and synthesize it to support their ideas. Oral communication is reinforced as students comprehend and respond to the ideas of others while contributing their own ideas in class discussion and in groups. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

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. Students are encouraged to purchase or obtain personal copies of novels for use in this class. Summer reading is required. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

Principles/Applied 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.

Basic 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.

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 the examination of a wide variety of literary and informational texts from various time periods in American literature. As writers, students apply conventions of the English language as they compose a range of written texts that contain clear controlling ideas, coherent organization, and elaboration. Students locate relevant sources, evaluate information, and synthesize it to support their ideas. Oral communication is reinforced as students comprehend and respond to the ideas of others while contributing their own ideas in class discussion and in groups. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

Principles/Applied 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. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

Basic 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. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

AP Language and Composition

11th grade

(Junior English) – (1 credit)

Prerequisite: None

AP Language and Composition is a college-level course that engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. This course focuses on writer's purpose, audience's expectations and subjects, as well as the way generic conventions and the resources of language contribute to effective writing. This prepares students for the Advanced Placement Exam which may earn the student college credit. Students are encouraged to purchase or obtain outside novels for use in this class. Summer reading is required. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

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 focuses on the examination of a wide variety of literary and informational texts from various time periods in British literature. As writers, students apply conventions of the English language as they compose a range of written texts that contain clear controlling ideas, coherent organization, and elaboration. Students locate relevant sources, evaluate information, and synthesize it to support their ideas. Oral communication is reinforced as students comprehend and respond to the ideas of others while contributing their own ideas in class discussion and in groups.

Principles/Applied English IV

Prerequisite: Committee Recommendation

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

Basic 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

12th grade

(Senior English) - (1 credit)

Prerequisite: None

AP Literature and Composition is a college level course that engages students in the careful reading and critical analysis of imaginative literature. This college level course will include intensive study of representative works from various genres and periods focusing on the work's artistry, social and historical context, textual detail, interpretation, and evaluation. The interpretative and argumentative writing will follow detailed discussions of poetry, drama, novel, short story, and expository literature. 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.

Humanities - (1 credit) 10th–12th grade**Prerequisite: None**

Humanities will include the study of major historical and cultural movements and their relationship to literature and the other fine arts. It is a rigorous course of study in which students will study writing as an art form and respond to the aesthetic elements in a variety of texts. All students will be expected to participate in classroom discussions and presentations that lead to an understanding, appreciation and enjoyment of critical, creative achievements throughout history.

ESOL I, II - (1 credit) 9th – 12th grade**English for Speakers of other Languages****Prerequisite: Teacher Approval**

English for Speakers of Other Languages I-II (ESOL) is designed for 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.

Reading I, II, III - (1/2 or 1 credit) 9th – 12th grade**Prerequisite: None**

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, reference usage and test-taking skills. Research-based technology and supplemental resources are used to differentiate instruction. Independent reading is utilized to apply strategies to increasingly demanding texts.

Communication Applications (Speech) – (1/2 credit) 9th – 12th grade**Prerequisite: None**

Communication Applications (Speech) is designed to apply speech communication skills essential in talking with one person, in a small group setting, or in front of an audience. Students in Communications Applications class will also learn the skills needed to be successful in the job application process, including resume writing, job interviewing protocol, and professional etiquette. 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: None**

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 the skills of conventions and mechanics of written English, the appropriate applications of grammar, and an effective use of vocabulary. This course can serve as a foundation to assure improvement and success in all forms of 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)).

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

Research covers the process of research and includes computer, CD ROM, Internet, Reader's Guide, and SIRS instruction. The production of a fully documented research paper on a topic of the student's interest will be the focus of this class. The production of a manual, brochure, or technical paper will also be included in this semester class. **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)).**

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)).**

Newspaper I - (1 credit) 10th - 12th grade**Prerequisite: Journalism I or 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.

Advanced Journalism/ Newspaper II-III (Desktop Publishing) 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 I and Instructor Approval (application required)**

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.

**Advanced Journalism/
Yearbook II-III (Desktop Publishing)
(1 credit)**

10th – 12th grade

Prerequisite: Yearbook I and Instructor Approval (*application required*)

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

**Independent Study in Journalism
(1/2-1 credit)**

10th – 12th grade

Prerequisite: At least one year on publication staff and Instructor Approval

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

Photojournalism I - (1/2 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. Students should expect to spend a minimum of \$60-\$75 per semester for supplies and materials, excluding a camera. It would be to the student's advantage to have a personal camera for use in class and at home.

Photojournalism II - (1/2 credit)

9th – 12th grade

Prerequisite: Photojournalism I

Photojournalism II is designed for students who want to continue their interest in digital photojournalism. Photocomposition will be emphasized as well as improving print quality through technology. Planning photo presentations through a variety of media will be covered. Students should expect to spend a minimum of \$60 - \$75 per semester for supplies and materials. It would be to the student's advantage to have a personal camera for use in class and at home.

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.

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.

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 camera, mastery of audio techniques, set lighting, electronic editing, script writing, direction, production, and special effects.

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 camera, mastery of audio techniques, film production, script writing, production and special effects. This course is considered a Technology Applications course beginning with the class of 2014.

Mathematics Courses

- **All math classes use TI 83+ or 84+ calculators in the classes. Classroom sets are available to students in all math classes. Students are encouraged to purchase their own calculator for use at home.**

Algebra I - (1 credit)

9th grade

Prerequisite: None

Algebra I will include the following concepts: operations with real numbers and properties of real numbers, linear equations and inequalities in one variable, linear equations and inequalities in two variables, skills associated with polynomials and rational expressions, properties of roots, operations with radicals, and quadratic equations. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

Principles/Applied 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.

Basic 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

Algebra II - (1 credit)

9th – 12th grade

Prerequisite: Geometry or concurrent enrollment

Algebra II will include skills associated with open sentences, properties of relations and functions, properties of the complex number system, polynomials and rational expressions, matrices and determinants, quadratic functions, exponential and logarithmic functions and conic sections. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

Pre-AP Algebra I - (1 credit)

9th grade

Prerequisite: None

PAP Algebra I expands on concepts covered in regular Algebra I with an intense focus on high level application and problem solving situations that require a solid foundation of skills associated with the following content areas: operations and properties of real numbers, linear equations and inequalities in one variable, linear equations and inequalities in two variables, polynomial and rational expressions, properties of roots, operations with radicals, and quadratic equations. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

Pre-AP Algebra II – (1 credit)

9th – 12th grade

Pre AP Algebra II expands on the concepts covered in Algebra II. Content of this course which is not found in the regular course includes topic related to 3-space, partial fractions, quadratic systems, polynomial functions, and proofs. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

Geometry - (1 credit)

9th – 12th grade

Prerequisite: Algebra I

Geometry will include the following skills: deductive reasoning, lines and angles, basic postulates and theorems, triangles, inequalities, parallel lines, quadrilaterals, area, polygons, circles, and geometric solids. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

Pre-AP Geometry - (1 credit)

9th – 12th grade

Prerequisite: Algebra I

Pre AP Geometry covers the same topics of geometry with more depth There is a strong emphasis on problem solving, geometry proofs, logic, and applications of geometric concepts. A variety of activities are integrated into this course. Students should have a strong background in solving equations and working with variables. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

Principles/Applied Geometry

Prerequisite: Committee Recommendation

This course is based on the Geometry 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.

Basic 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. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

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

10th- 12th grade

Prerequisite: Geometry

The primary purpose of this course is to use mathematics as a tool to model real world phenomena in science, finance, music, and art. Finance will include growth models (investments, insurance, and retirement) and paying off models (automobile loans and house loans). Geometric transformation will also be used to model perspective drawings, patterns, tessellations, and grid drawings. This course will count as a third mathematics credit on the Recommended Plan if taken prior to Algebra II.

Principles/Applied 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.

Basic 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.

Basic 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

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.

Foundations for College Math Mathematics – (1 credit)

11th – 12th grade

Prerequisite: Algebra II

This mathematics course is designed for students who have completed Algebra II and plan to enter college and study nontechnical majors. Graphing calculator technology is integrated throughout to enhance the learning of concepts and skills. This course has increased emphasis on the use of functions as a central theme. In addition to deepening mathematical understanding of functions and their behavior, systems of equations, inequalities, and logarithms will be studied.

Pre-Calculus- (1 credit)

10th- 12th grade

Prerequisite: Algebra II

Pre-calculus is a study of functions, sequences and series, vectors, introductory parametric functions and trigonometry. Students in pre-calculus will work extensively with the graphing calculator. This course meets the minimum prerequisite requirement for AP Calculus.

Pre-AP Pre-Calculus - (1 credit)

10th–12th grade

Prerequisite: Algebra II

Pre-AP Pre-calculus expands on the concepts covered in Pre-calculus. The course will be fast paced. Students need excellent algebraic skills and problem solving skills to be successful. The course will include a more in-depth investigation of functions and limits. This course is the **recommended** prerequisite requirement for AP Calculus.

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 and will require 5-6 hours per week of preparation time. *AP Calculus AB is not a prerequisite to AP Calculus BC. **This is a college level course.***

AP Calculus BC - (1 credit)

11th -12th grade

Prerequisite: Pre-Calculus or

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 functions, 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 Advanced Placement Exam and will require 5-6 hours per week of preparation time. This course can be taken in lieu of AP Calculus AB. **This is a college level course.**

AP Statistics - (1 credit)

11th - 12th grade

Prerequisite: Algebra II

AP Statistics exposes students to four broad conceptual themes: Exploring Data, Planning a Study, Anticipating Patterns, and Statistical Inference. Students should have excellent algebraic and problem solving skills. They should be able to work both independently and with a group. Extensive use of the graphing calculator capabilities and statistical applications are emphasized. This course is a college level course and is designed to prepare students for the College Board Advanced Placement Exam and will require 5-6 hours per week of preparation time. **This 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. The course 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 THEA to enroll.

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 3 courses - Equine Science, Livestock Production, or Small Animal Management

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire 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 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 required for this course. This course may count as a science credit.**

Forensic Science (CTEC) (1 credit)

12th grade

Prerequisite: Law Enforcement or Security 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 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 / Applied IPC

Prerequisite: Committee Recommendation

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

Basic IPC

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.

Biology - (1 credit) 9th - 11th grade

Prerequisite: None

Biology is a course designed around the study of living things. Manipulative laboratory skills, skills in acquiring data, classification skills in ordering and sequencing data, experience in oral and written communication data skills of measurement, jobs and 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.

Principles of Biology

Prerequisite: Committee Recommendation

This course is based on the Biology 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.

Basic 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.

Pre-AP Biology - (1 credit) 9th - 11th grade

Prerequisite: None

Pre-AP Biology will be a lab-oriented course designed for students exhibiting an advanced achievement level in the biological sciences domain of study. This course shall exceed the content and depth of a standard course both in the classroom and laboratory experiences. Pre-AP Biology will strive for the higher levels of learning; creative thinking, application of the content areas in the past, present, and future situations with a mathematical approach for recording experimental data and critical evaluation for 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.

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

Prerequisite: One unit of high school science and Algebra I

Co-requisite: Geometry

Chemistry is a course that is oriented toward college preparation and is designed to provide a laboratory approach to the study of properties of elements, compounds and mixtures. Investigations of stoichiometric relationships and the periodicity of the elements are conducted. Other topics include atomic spectra, atomic structure, chemical bonding, chemical reactions, acids and bases, and solution equilibria. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

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 with modifications implemented to meet the needs of the students.

Pre-AP Chemistry - (1 credit) 10th - 12th grade

Prerequisite: One unit of high school science and Geometry

Co-requisite: Algebra II - recommended

Pre-AP Chemistry will be a lab-oriented course designed for students exhibiting an advanced achievement level in the chemical sciences domain of study. This course shall exceed the content and depth of a standard course both in the classroom and laboratory experiences. Pre-AP Chemistry will strive for the higher levels of learning; creative thinking, application of the content areas in the past, present, and future situations with a mathematical approach for recording experimental data and critical evaluation for 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.

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

Prerequisite: Algebra I

Co-requisite: Geometry

Physics is a course that is oriented toward college preparation and 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. This course emphasizes the use of mathematics to solve problems. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

Pre-AP Physics - (1 credit) 9th - 12th grade

Prerequisite: Algebra I and Geometry

Co-requisite: Algebra II

Pre-AP Physics will be a course designed to prepare students to be successful in either a college level or AP level physics course. The course will exceed the content and depth of a standard course both in the classroom and laboratory experience. Pre-AP Physics will strive for higher level and creative thinking and will emphasize a mathematical approach for recording experimental data and critical evaluation for 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.

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

Prerequisite: Biology and IPC (or Chemistry)

Environmental Systems 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. 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; relationship between carrying capacity and changes in populations and ecosystems; and changes in environments.

Principles of Environmental Systems

Prerequisite: Biology and IPC (or Chemistry)/Committee

Recommendation

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

Basic Environmental Systems

Prerequisite: Committee Recommendation

This course is based on the prerequisite skills of the Environmental Science 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, sequencing data, experiences in oral and written communication of data, and job and career explorations are skills that will be stressed in this course. Students in this course may choose to take courses in Health Science Technology. This course may count as 4th science credit in the recommended and DAP graduation plans.

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

Prerequisite: Biology

Concurrent: Chemistry

Aquatic science 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. Students 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.

Principles of Aquatics

Prerequisite: Biology / Committee Recommendation

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

Basic 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.

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

Prerequisite: Three units of science and three units of math

For 11th graders 3rd units must be taken concurrently

Co-requisites: One unit of science and one unit of math

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. 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, engage in acquiring, processing, and analyzing scientific data, and students will build upon reading, writing, research, and quantitative skills learned in previous grades. The 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.

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

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 interested in a health-related career track or for the student who is interested in science in general and biology in particular. This course is offered at the CTE Center. This course may count as 1/2 of the 4th science credit in the recommended and DAP graduation plans.

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

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 interested in a health-related career track or for the student who is interested in science in general and biology in particular. This course is offered at the CTE Center. TThis course may count as 1/2 of the 4th science credit in the recommended and DAP graduation plans.

AP Biology - (1 credit) 11th – 12th grade

Prerequisite: Biology, Chemistry

AP Biology is a course designed to be the equivalent of a college-level biology course. The course will provide students with the framework, factual knowledge and analytical skills necessary to deal with the rapidly changing science of biology. The student will take the AP exam in order to earn college course credit depending on exam score. Students may complete an independent research project. Approximately two hours of additional outside lab/lecture contact per week will be required. This is a college level course.

Approximately two hours of additional outside lab/lecture contact per week will be required. This is a college level course.

AP Chemistry - (1 credit) 11th – 12th grade

Prerequisite: Chemistry and Algebra II

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. Fundamental topics in chemistry are covered in greater depth than in Chemistry I, with an emphasis on chemical calculation. Advanced laboratory investigations involving independent data analysis and study are a major part of this course. Students will take the AP exam in order to earn college course credit depending on exam score. Students may complete an independent research project. Approximately two hours of additional outside lab/lecture contact per week will be required. This is a college level course.

AP Physics B - (1 credit) 11th – 12th grade

Prerequisite: Physics, Algebra I, Algebra II and Geometry

Co-requisite: Pre-Calculus

This course provides a systematic introduction to the main principles of physics and emphasizes the development of conceptual understanding and problem-solving ability using algebra and trigonometry, but rarely calculus. In most colleges, this is a one-year terminal course and is not the usual preparation for more advanced physics and engineering courses. However, the B course provides a foundation in physics for students in the life sciences, pre-medicine, and some applied sciences, as well as other fields not directly related to science. Approximately two hours of additional outside lab/lecture contact per week will be required. This is a college level course.

AP Physics C - (1 credit)

11th – 12th grade

Prerequisite: Physics, Algebra I, Algebra II, Geometry and Pre-Calculus

Co-requisite: Calculus

This course ordinarily forms the first part of the college sequence that serves as the foundation in physics for students majoring in the physical sciences or engineering. The sequence is parallel to or preceded by mathematics courses that include calculus. Methods of calculus are used wherever appropriate in formulating physical principles and in applying them to physical problems. The sequence is more intensive and analytic than that in the B course. In addition to developing conceptual understanding, strong emphasis is placed on solving a variety of challenging problems. The subject matter of the C course is mechanics and electricity & magnetism; with approximately equal emphasis on these two areas. The C course is the first part of a sequence which in college is sometimes a very intensive one-year course, but which usually extends over one and one-half to two years. Approximately two hours of additional outside lab/lecture contact per week will be required. This is a college level course

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

Prerequisite: Biology, Chemistry and Algebra I

AP Environmental Science is an 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 for resolving and/or preventing them. The course will be lab-based and students may complete an independent research project. Students will take the AP exam in the spring in order to earn college course credit depending on exam score. Approximately two hours of additional outside lab/lecture contact per week will be required. This is a college level course.

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. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

Principles/Applied 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. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

Basic 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. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

Pre-AP World Geography - (1 credit) 9th grade

Prerequisite: None

Pre AP World Geography is designed for students who are interested in studying the interaction of people and their physical environment in the major areas of the world. Pre-A.P. Geography is an advanced course, teaching students strategies and techniques that will make them successful at the AP and college level. The Pre-A.P. student is expected to show a high level of commitment to learning and do a significant amount of reading and preparation outside of the classroom. This course will strongly stress reading, research, writing, oral presentations, geographical interpretations plus other skills necessary for students to be successful in upper level advanced placement classes. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

AP Human Geography - (1/2 credit) 10th – 12th grade

Prerequisite: none

This is a semester-long course designed to introduce students to the systematic study of patterns and processes that have shaped human understanding, use and alteration of the Earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. This course is an introduction to college level coursework and will require academic determination and responsibility. Interested students will be eligible to take AP examination in May to earn college credit. This is a college level course.

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. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

Principles/Applied 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. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

Basic 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. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

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. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012.

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.

Principles/Applied US 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.

Basic US 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 timeframe 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.

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/Applied 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.

Basic 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/Applied 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.

Basic 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.**

**Special Topic:
American Wars - (1/2 to 1 credit) 10th - 12th grade**

Prerequisite: World Geography

Special Topic American Wars is a course designed for students interested in the study of military, social, political, literary, musical and visual arts aspects of the American Wars. The course would place special emphasis on modern wars, 20th-21st centuries. First semester may include a synopsis of pre-twentieth century conflicts and may conclude with WWII. The second semester should include in-depth analysis of post WWII conflicts through the modern War on Terror. In addition, the course will analyze the influence of these conflicts on our national culture.

**Special Topics:
Contemporary World Issues - (1/2 credit) 10th - 12th grade**

Prerequisite: None

This course will emphasize the present and future world. As issues emerge, the historical, geographical, political and economic context of the area and issue involved will be studied. Thus, this course should provide an excellent vehicle for further development and application of geographic knowledge and skills. Students will develop an understanding of how a country such as the US is organized to respond to world issues and events. Students will use the newspaper, magazines, and technology as reference material to keep abreast of current events. Strong reading and writing skills are needed to be successful in this class. This class meets for one semester.

**Special Topics:
Personal Finance - (1/2 credit) 11th - 12th grade**

Prerequisite: None

This course offers a study in consumer finance and money management. It examines personal financial management and consumer decision making in today's world. Objectives include: setting financial goals, developing a financial plan, understanding the time value of money, preparing a personal budget, understanding personal taxes and how to minimize them, using credit wisely, planning for home ownership, selecting insurance policies, and understanding retirement planning, estate planning and wills.

Law I: History of Law - (1/2 credit) 10th -12th grade

Prerequisite: None

This course covers Origins and Purpose of Law, Theory and Origins of Constitutional Thought, The Constitution, Amendments and Civil Liberties. The course also provides an introduction to civil and criminal trial procedures at the state and federal levels. This course will provide a knowledge base for students interested in governmental law or the law profession.

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

Prerequisite: Law I or teacher recommendation

This course provides a more in-depth study and expansion on topics such as civil rights, criminal rights, and political activism. The course also provides a more thorough study of civil and criminal trial procedures and allows for the participation in Mock Trials.

Mock Trial (CTEC) (1 credit) 10th -12th grade

Prerequisite: Law I or Law II or concurrent enrollment

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.

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.**

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.

Fine Arts Courses

Art

Art I - (1 credit) 9th - 12th grade

Prerequisite: None

Art I will include both two and three-dimensional art. This is a yearlong course in which first semester skills are needed to be successful in semester two. Basic drawing, design, and painting will be taught through the understanding of the elements and principles of art. **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.

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

Prerequisite: Art I

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.

Art II Ceramics - (1 credit) 9th - 12th grade

Prerequisite: Art I

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 to remain in the class.

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

Prerequisite: Art II

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) 11th - 12th grade**Prerequisites: See campus guidance office for specific guidelines**

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: See campus guidance office for specific guidelines**

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 curriculum focuses mainly on marching band in the fall and concert band in the spring. The rehearsal and performance schedules are very 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. Exceptions may be made to this requirement at the discretion of the director in consultation with the campus principal or their designee; but, would be limited to students involved in conflicting school activities or students with a physical or emotional impairment as certified by a licensed physician.

Instrumental Ensemble - (1 credit) 9th -12th grade**Prerequisite: Teacher recommendation**

Instrumental ensemble is a full year course concentrating on developing individual brass and woodwind skills. Much of the curriculum focuses on improving small ensemble and basic fundamental skills. Class time may be spent on All-State etudes, solo and ensemble music, as well as general band literature.

Percussion Class - (1 credit) 9th -12th grade**Prerequisite: Teacher recommendation**

Percussion class may be taken as a "fall only" or full year course. **All percussion students are required to take the class during the fall semester.** Students are encouraged, but not required to continue into the spring semester. Students will be instructed on all percussion instruments with regard to technique fundamentals, tone production, reading, improvisation, equipment care, music arranging, and solo & ensemble skills. Year-round preparation for band music, competitions, and festivals will be a large focus. Musical emphasis includes music from many world cultures. Enrollment requires some outside attendance at and preparation for special events each semester.

Applied Music - (1 credit) 9th – 12th grade**Prerequisite: Teacher recommendation**

Students enrolled in Applied Music are individually instructed on their instrument. Students practice, perform and are tested on a self-paced schedule of advanced assigned materials. Periodic performance tests are administered for the students' grades.

Rock School - (1 credit) 9th – 12th grade**Prerequisite: 1+ years vocal or instrumental experience**

70's rock and roll is a performance class in which bands will be organized to study the music of the greatest composers of the rock and roll era. In addition to performing, students will study the history of rock, its influence on the social climate of the 1970s, and its development as a musical genre. The following instruments will be accepted: vocals, guitar, electric bass, drums and keyboard. Acceptance will be by audition only and will be based on skill, experience and attitude.

Jazz Band - (1/2 credit) 9th – 12th grade**Prerequisite: Audition and teacher recommendation**

Jazz Band will include small ensemble to study and perform jazz pop 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 also introduces students to elementary piano skills and ear training.

AP Music Theory - (1 credit) 10th - 12th grade**Prerequisite: Music Theory I and teacher recommendation**

AP Music Theory II 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 String Ensemble - (1 credit) 9th -12th grade**Prerequisite: Teacher Recommendation**

Instrumental String ensemble is a full year course dedicated to developing individual and String Ensemble skills. Much of the curriculum focuses on basic fundamental skills of ensemble playing and improving small ensemble performance technique. Class time will be spent developing a repertoire for Quartet, Small ensemble and/or Chamber performance. Additional class time may be spent on All-State Etudes, Solos and advanced string literature.

Beginning String Orchestra - (1 credit) 9th -12th grade**Prerequisite: Application and instrument**

Beginning Orchestra is a full year course for students with little to no experience, who wish to learn to play a string instrument, or to learn a secondary string instrument (Violin, Viola, Cello, String Bass). Students will be given technical instruction and will develop skills which will enable them to perform basic Orchestra literature. Orchestra students will perform three concerts per year. Students who wish to play Violin or Viola will be required to provide their own instrument for class instruction. Students who wish to play Cello and String Bass are required to provide an instrument for home practice.

String Orchestra - (1 credit) 9th – 12th grade**Prerequisite: Must have some previous experience on a stringed instrument**

The course will include an introduction to the string orchestra literature and advanced technical development. The orchestra is open to any student who has had previous instruction on a stringed instrument (violin, viola, cello, and double-bass) and has reached the competency of the advanced orchestra of the middle school, or has been otherwise accepted through audition by the orchestra director. Students will be eligible to audition for participation in the T.M.E.A. All-Region High School Symphony Orchestra and All-State Orchestra. Students should be studying privately, if possible. A minimum of three concerts will be presented per year in addition to solo and small ensemble playing opportunities. **An instrument fee will be incurred with the use of any school owned instrument.**

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

Prerequisite: Audition

The course will include an introduction to the string orchestra literature and continued advanced technical development. The orchestra is open to any student who has had previous instruction on a stringed instrument (violin, viola, cello, and double-bass) and has reached the competency of the High School String Orchestra level or has been otherwise accepted through audition by the orchestra director. Students will be eligible to audition for participation in the T.M.E.A. All-Region High School Symphony Orchestra and All-State Orchestra. Students should be studying privately, if possible. A minimum of three concerts will be presented per year in addition to solo and small ensemble playing opportunities. **An instrument fee will be incurred with the use of any school owned instrument.**

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

Prerequisite: Audition

Orchestra at this level is keyed to be a completion of the previous preparation for advanced string orchestra literature and full symphony performance. Students must be recommended by their previous orchestra director or be accepted by the present director through or audition. Students in this group should be competent on their instruments. Each should be studying privately, if possible, for guidance to the highest potential. Each should have advanced shifting and bowing techniques at his/her disposal. Students joining this orchestra program will participate in all rehearsal and performance activities. This will include rehearsals and performances held outside the regularly scheduled class period. Students will have the opportunity to compete in audition activities for T.M.E.A. All-Region and All-State Symphony Orchestra and Solo and Ensemble competitions. A minimum of three public performances will be presented each year, in addition to solo and small ensemble playing opportunities. Students will increase their knowledge of orchestral literature through their performance, discussion, and listening, as described in the curriculum guide. They will be offered opportunity to investigate the availability of college scholarships in the area of music. **An instrument fee will be incurred with the use of any school owned instrument.**

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 4th 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 - (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.

Choir

Women's Ensemble I - (1 credit) 9th -12th grade

Prerequisite: None

Women's Ensemble I is an entry-level ensemble for treble voices. No previous musical knowledge and no audition are required. This course introduces basic musicianship and sight-reading skills along with the experience of singing unison, two- and three-part harmony. Requirements include, but are not limited to, performances in two concerts during the fall semester and two performances during the spring semester.

Men's Ensemble - (1 credit) 9th -12th grade

Prerequisite: None

Men's Ensemble I is an entry-level ensemble for male voices. No previous musical knowledge and no audition are required. This course introduces basic musicianship and sight-reading skills along with the experience of singing unison, two- and three-part harmony. Requirements include, but are not limited to, performances in two concerts during the fall semester and two performances during the spring semester.

Women's Ensemble II - (1 credit) 9th -12th grade

Prerequisite: Audition

Women's Ensemble II is an intermediate-level ensemble for treble voices. An audition is required. This course expands upon basic musicianship and sight-reading skills along with the experience of singing two- and three-part harmony. Requirements include, but are not limited to, performances in two concerts during the fall semester and two performances during the spring semester.

Women's Ensemble III - (1 credit) 9th -12th grade

Prerequisite: Audition

Women's Ensemble III is an advanced-level ensemble for treble voices. An audition is required. This course expands upon intermediate musicianship and sight-reading skills along 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.

Mixed Ensemble I - (1 credit) 9th -12th grade**Prerequisite: Audition**

Mixed Ensemble I is an intermediate-level ensemble for mixed voices. An audition is required. This course expands upon basic musicianship and sight-reading skills along 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.

Mixed Ensemble II - (1 credit) 9th - 12th grade**Prerequisite: Audition**

Mixed Ensemble II is an advanced-level ensemble for mixed voices. An audition is required. This course expands upon intermediate musicianship and sight-reading skills along with the experience of singing four- and five-part harmony. Requirements include, but are not limited to, performances in two concerts during the fall semester and two performances during the spring semester.

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.**

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.

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.)**

Color Guard (Drill and Flag Corp) (1 credit) 9th – 12th grade**Prerequisite: None**

Color Guard emphasizes precision marching rifle and flag drills. This is a performance class where the basics of movement, dance and use of equipment are taught. The skills of Color Guard are developed in this course as the guard performs with the Varsity Band in the fall and as an independent unit in the spring. Students will earn a fine arts credit and P.E. substitution credit. The PE substitution credit will be awarded for fall semester only. **Additional expenses may be incurred with the purchase of uniforms and supplies.**

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

French I begins the development of the four basic language skills: listening, speaking, reading, and writing through the use of oral drills, vocabulary building, simple composition and readings, dialogue, and creative writing. The course also stresses cultural awareness and understanding of the francophone (French-speaking) world and its impact on North America.

French II - (1 credit) 10th - 12th grade**Prerequisite: French I**

French II emphasizes continued development of the basic skills of reading, writing, listening, and speaking. The course explores the culture, customs and folklore of the francophone (French-speaking) world. Course work includes oral drills, vocabulary building, dialogue, reading authentic and cultural materials, creative and expository writing, and A-V presentations.

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

French II Pre-AP expands the Essential Knowledge and Skills for French II to provide opportunities for talented language students desiring to pursue language study at the advanced levels. The course stresses the development of oral proficiency and accurate comprehension of literary, contemporary, and cultural reading material. Students will expand their use of grammatical constructions and vocabulary as well as begin the development of persuasive and expository composition. Elements of French cultures will be studied and explored in greater depth than in the regular French II course.

French III - (1 credit) 10th – 12th grade**Prerequisite: French II or French II Pre-AP**

This course completes the program of language study required for the **distinguished graduation plan** with emphasis on increasing oral and auditory proficiency, reading comprehension skills, and accurate written communication. This course is **recommended for students who require slower pacing and more repetition**. French III provides opportunities to enhance students' understanding of French cultures through a wide range of study including film, literature, art, history, geography and authentic materials. Students will learn structures necessary to interact socially, request and receive information in a variety of situations, and negotiate the actions of others. **An increase in the amount of preparation and study time should be expected for successful completion of the course.**

Pre-AP French III - (1 credit) 11th – 12th grade**Prerequisite: French II, French II Pre -AP**

French III Pre-AP completes the program required for the distinguished diploma plan and is recommended for students who have experienced great success in language study or are planning to take the advanced placement course of study at level four. Students enrolling in Pre-AP will be required to produce, in impromptu and prepared formats, oral presentations of extended length which demonstrate complex syntax and grammatical structures. Reading comprehension skills will be expanded through analysis of a variety of literary and expository texts. Increased auditory proficiency will be developed through the study of authentic audio-visual materials including movies, documentaries, television and radio broadcasts, and music. Course work for Pre-AP is challenging and requires a commitment to intensive study and preparation by the dedicated student.

AP French IV Language - (1 credit) 11th - 12th grade**Prerequisite: French III Pre-AP (strongly recommended) or****French III - (1 credit)**

This course focuses on the advanced development of oral and auditory skills, written communication, and reading comprehension. Special discussions will take place frequently based on current events, French history, literature, and real-life situations. The course covers special problems and topics in grammar, vocabulary, and stylistics, including idioms. Students will begin interpreting and analyzing representative works of literature including short stories, poems, and novels. Considerable commitment and additional preparation and study time is required for successful completion of the course as this course prepares students to take the French Language AP Exam for possible college credit. **This is a college level course.**

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

Spanish I begins the development of the four basic language skills: listening, speaking, reading, and writing through the use of oral drills, vocabulary building, simple composition and reading assignments, dialogue, and creative writing. The course also stresses cultural awareness and understanding of the Spanish-speaking world and its impact on North America.

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

Spanish II emphasizes continued development of the basic skills of reading, writing, listening, and speaking. The course explores the culture, customs, and folklore of the Spanish-speaking world. Course work includes oral drills, vocabulary building, dialogue reading of authentic and cultural material, creative and expository writing, and A-V presentations.

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

Spanish II Pre-AP expands the Essential Knowledge and Skills for Spanish II to provide opportunities for talented language students desiring to pursue language study at the advanced levels. The course stresses the development of oral proficiency and accurate comprehension of literary, contemporary, and cultural reading material. Students will expand their use of grammatical constructions and vocabulary as well as begin the development of persuasive and expository composition. Elements of Hispanic culture will be studied and explored in greater depth than in the regular Spanish II course.

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

Spanish III completes the program of language required for the distinguished diploma plan with emphasis on increasing oral and auditory proficiency, reading comprehension skills, and accurate written communication. The course provides opportunities to enhance students' understanding of Hispanic cultures through a wide range of study including film, literature, art, history, geography, and authentic materials. Students will learn structures necessary to interact socially, request and receive information in a variety of situations, and negotiate the actions of others. An increase in the amount of preparation and study time should be expected for successful completion of the course.

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

Spanish III Pre-AP completes the program required for the distinguished diploma plan and is recommended for students who have experienced great success in language study or are planning to take the advanced placement course of study at level four. Students enrolling in Pre-AP will be required to produce, in impromptu and prepared formats, oral presentations of extended length which demonstrates complex syntax and grammatical structures. Reading comprehension skills will be expanded through analysis of a variety of literary and expository texts. Increased auditory proficiency will be developed through the study of authentic audio-visual materials including movies, documentaries, television and radio broadcasts, and music. Course work for Pre-AP is challenging and requires a commitment to intensive study and preparation by the dedicated student.

AP Spanish Language - (1 credit) 11th -12th grade**Prerequisite: Pre-AP Spanish III, Spanish III**

AP Spanish Language focuses on the advanced development and the integration of oral and auditory skills, written communication, and reading comprehension. Through the study of cultural, artistic, literary, and contemporary issues and mediums, students will have the opportunity to develop their skills to the intermediate high proficiency level. Students will frequently take part in discussions, informal conversations, and prepared formal presentations based on current events, literature, and real life situations. Students will analyze and interpret representative works of literature including short stories and poems, and will develop oral fluency through extensive work with advanced topics in grammar, extensive vocabulary, and stylistics, including idioms. Considerable commitment and additional preparation and study time are required for successful completion of the course. At the conclusion of the course students will have the opportunity to take the Advanced Placement Spanish Language Exam. This is a college level course.

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

Spanish V AP is an Advanced Placement course designed to introduce students to a representative sample of Hispanic literary works. Students will read and analyze works of literature including poetry, prose, drama, and short story. In addition, students will participate in Spanish discussions and debates, as well as write essays in Spanish regarding these works, their themes and genres. Upon completion of this course, students will have the opportunity to take the Advanced Placement Exam in Spanish literature. Considerable commitment and outside preparation is essential to success at this level. **This is a third-year college level 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 and 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.

German II - (1 credit) 10th - 12th grade**Prerequisites: German I**

German II continues the development of the four basic language skills: listening, speaking, reading, and writing. Practical experience is gained through the use of oral and written drills, vocabulary building, basic essay composition, reading of some authentic cultural materials, oral presentations, and aural comprehension activities. The course also expands upon the knowledge obtained in level 1 regarding the cultural characteristics of Germany.

Pre-AP German II- (1 credit) 10th - 12th grade**Prerequisites: German I**

Pre-AP German II expands the Essential Knowledge and Skills for German II to provide opportunities for talented language students desiring to pursue language study at the advanced levels and eventually possibly in a German-speaking country. As such, course work for Pre-AP is challenging and requires a commitment to intensive study and preparation by the dedicated student. The course stresses the development of oral and written proficiency and accurate comprehension of literary, contemporary, and cultural reading material. Students will expand their use of grammatical constructions and vocabulary as well as begin the development of expository composition. The course also expands upon the knowledge obtained in level 1 regarding the cultural characteristics of Germany.

Pre-AP German III - (1 credit) 11th - 12th grade**Prerequisites: German II or Pre-AP German II**

Pre-AP German III completes the program required for the distinguished diploma plan and is recommended for students who have experienced great success in language study or are planning to further their studies in German either here or in a German-speaking country. As such, course work for Pre-AP is challenging and requires a commitment to intensive study and preparation by the dedicated student. German III expands upon grammatical knowledge obtained in the first two levels and applies it to more authentic practical use. Experience is additionally gained and demonstrated through expanded readings in German, more frequent exposure to authentic materials, impromptu and prepared oral presentations of varying length, and more in-depth projects and presentations in the foreign language. Students will also begin to explore the cultural differences between the three main German-speaking nations.

AP German IV - (1 credit) 12th grade**Prerequisites: Pre-AP German III**

AP German IV completes the program offered by Fisd and is recommended for students who have experienced great success in language study or are planning to further their studies in German either in college or in a German-speaking country. As such, the work presented in AP German is both challenging and requires a commitment to intensive study and preparation by the dedicated student. German IV will expand upon the knowledge obtained in the first three levels, but will focus on applying it towards more authentic practical use. Specifically, the course will promote the advanced development of oral and auditory skills, written communication, and reading comprehension. Additionally, students will be required to frequently take part in discussions based on current events, history, literature, and entertainment. This will include learning to hypothesize and express and defend one's viewpoints orally in the foreign language. Students will analyze and interpret representative works of literature including short stories and poems, and will develop oral fluency through extensive work with advanced topics in grammar, more extensive vocabulary, and stylistics, including some idioms. Students will have the opportunity to take the advanced placement examination at the conclusion of this course. **This is a college level course.**

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

This course will develop students' expressive and receptive signing skills. Upon completion, students will have an extensive sign vocabulary. Communication will occur in the target language approximately 25% of the time. Students will be required to purchase an ASL dictionary for home use. The teacher will approve a list of ASL dictionaries and the cost will range between \$15-\$50. *Although ASL is a state approved elective and will meet the foreign language graduation requirement, not all colleges or universities will accept ASL as the foreign language requirement for admission. Students will need to consult individual colleges or universities for specific admissions requirements.*

American Sign Language II - (1 credit) 10th - 12th grade

Prerequisites: ASL I

This course will expand the ASL sign Vocabulary acquired in ASL I. Students will focus on improving their expressive and receptive signing skills. Students' knowledge of ASL Syntax, Deaf Culture and History will be expanded. Upon completion, students will know the various causes of deafness, as well as gain a basic understanding of the careers related to deafness. Communication will occur in the target language approximately 50% of the time. *Although ASL is a state approved elective and will meet the foreign language graduation requirement, not all colleges or universities will accept ASL as the foreign language requirement for admission. Students will need to consult individual colleges or universities for specific admissions requirements.*

American Sign Language III - (1 credit) 11th - 12th grade

Prerequisites: ASL II

This course will offer advanced sign vocabulary and syntax. This course focuses on multiple projects that will enhance the students' repertoire of sign vocabulary as well as their overall knowledge of deaf culture. *Although ASL is a state approved elective and will meet the foreign language graduation requirement, not all colleges or universities will accept ASL as the foreign language requirement for admission. Students will need to consult individual colleges or universities for specific admissions requirements.*

Health and Physical Education Courses

Physical Education Requirements

- Students must earn 1.5 credits in PE or PE equivalent courses (students entering 9th grade in fall of 2010 must earn 1.0 credits).
- 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

Personal Fitness - (1/2 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, II, III - (1/2 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 I, II, III - (1/2 credit) 9th – 12th grade

Prerequisite: None

Individual Sports is a course that teaches lifetime activities. This course offers instruction in the knowledge of table tennis, badminton, golf, bowling, weight lifting, swimming, walking/running, Frisbee, etc...

Team Sports I, II, III - (1/2 credit) 9th – 12th grade

Prerequisite: None

Team Sports is a course that teaches intramural/fitness for life. This course offers instruction in knowledge of flag football, basketball, volleyball, soccer, hockey, softball, Frisbee football, etc.

Weight Lifting and Conditioning I, II, III - (1/2 credit) 9th – 12th grade

Prerequisite: None

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

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.

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) 11th – 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 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 (1 credit) 11th – 12th grade

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 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**

Recommendation: ...Passing score on TAKS

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) **11th – 12th grade**

Recommendation: ...Passing score on TAKS

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

Gifted/Talented Independent Study/

Mentorship Program - (1 credit) **11th – 12th grade**

Prerequisite: Application Process

Students focus their study on a topic 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 field. Students work on time management, communication, goal setting, and presentation skills. 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. **Regular education students may apply for a waiver to gain entrance into this course. Beginning with the Class of 2015, ISM shall receive a 5.5 GPA weight.** See the counseling office for more information.

UIL 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
Softball	Baseball
Track	Cross Country
Power lifting	Tennis

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.

Community Based Instruction

Community Based Instruction (CBI) is a program designed for students that need intensive instruction in functional and daily living skills. The goal of the program is to provide hands on learning activities at all age levels to help students acquire the skills to live in the world today. The staff of the CBI department provide a variety of learning opportunities through Instructional Domains, Career Exploration, On-Campus Vocational Training, Augmentative and Adaptive Communication, and Social Skills.

Occupational Preparation I and II

This course is designed to introduce students to the fundamental attitudes, behaviors, and habits needed to obtain and maintain employment in their career choice and make career advancements. Students will participate in school-based learning activities including work ethic development, job-seeking skills, decision-making skills, and self-management. Students will be involved in on-campus vocational training activities such as the PAES Lab and work-based hands-on vocational training through volunteering.

Principles of Coop I and II

Prerequisite: Paid employment

A work study program designed to transition students to the world of work. Vocational training and job experience is combined with academic course work that leads to the development of employment potential. The student, instructor and employer work together to develop independence on the job site.

A Step Beyond and A Step Forward Programs

Prerequisite: 25 credits and Committee Recommendation

“A Step Beyond” and “A Step Forward” are programs designed for students 18 to 21 years of age who have met their credit requirements but have not yet met the criteria for graduation. These students continue to need support in the areas of social skills, independent living, self advocacy and vocational training. Students spend various amounts of time in the community, depending upon their individual education programs. The length of the day/week also would vary depending upon student needs.

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 Educaion

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. Students who select one of these courses must fill out an application available in the counseling office. The Frisco ISD CTE Career Programs of Study are available on the Frisco ISD Website or by contacting the Frisco ISD CTE Department at 469-633-6780.

CTE Courses and the Tech Prep Program

The intent of Tech Prep is to provide the student with workplace skills that will allow the individual to successfully enter the job market, the military or further education. Special populations, including gender non-traditional populations, have equal access to all Tech Prep programs of study. Tech Prep encourages high skill attainment in both academic and technical areas and utilizes technology in the classroom.

Tech Prep articulated courses with Collin College, through statewide articulation agreements, or through other college articulation agreements, can provide college credit if the student meets specific criteria.

Students who enroll in these courses, and earn a B or higher, will receive college credit if they enroll and successfully complete six hours at Collin College 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. The 2011-2012 school year is the final year in which articulated courses can be taken with the benefit of the articulated college credit. All credits earned this year and in any previous year will still be honored by the college, within 24 months of the students' graduation from Frisco ISD.

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



Program Electives

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Agriculture Sciences – Animal Science: Emphasis on Veterinary Technology			
		Available Certification: Veterinary Assistant Student Organization: FFA	
<input type="checkbox"/> Survey of Ag., Food & Natural Res. (1/2) <input type="checkbox"/> Companion Animal Management (1/2) <input type="checkbox"/> Wildlife, Fisheries, & Eco Mgmt. (1/2)	<input type="checkbox"/> Horse Production (Equine Science) (1/2) <input type="checkbox"/> Large Animal Management (1/2) <input type="checkbox"/> CTEC – Veterinary Medical Applications (1)	<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 (1)– Science Credit
Agriculture Sciences – Horticulture & Landscape Design			
		Available Certification: Floral Certification & Texas Certified Nursery Professional Student Organization: FFA	
<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) <input type="checkbox"/> Elements of Floral Design (1)- Fine Arts Credit	<input type="checkbox"/> CTEC – Adv Horticulture & Floral Design (1)	<input type="checkbox"/> CTEC – Adv. Plant & Soil Science (1)-Science Credit
Agriculture Sciences - Mechanics			
		Available Certification: OSHA 10-Hour Safety Student Organization: FFA	
<input type="checkbox"/> Survey of Ag., Food & Natural Res. (1/2) <input type="checkbox"/> Agricultural Mechanics & Metal Technologies (1)	<input type="checkbox"/> CTEC – Agricultural Facilities Design & Fabrication (1)	<input type="checkbox"/> CTEC – Agricultural Power Systems (1) <input type="checkbox"/> CTEC - Practicum in Agricultural Facilities Design & Fabrication (2)	<input type="checkbox"/> CTEC –Advanced Practicum in Agricultural Facilities Design & Fabrication (2)
Architecture & Construction			
Student Organization: Skills USA			
<input type="checkbox"/> Survey of Arch. & Construction (1/2) <input type="checkbox"/> Business Information Management 1 (1)	<input type="checkbox"/> CTEC - Architectural Design (1) <input type="checkbox"/> Interior Design (1)	<input type="checkbox"/> CTEC – Adv. Architectural Design (1) <input type="checkbox"/> Advanced Interior Design (1)	<input type="checkbox"/> CTEC – Practicum in Arch. Design (2) <input type="checkbox"/> CTEC – Practicum in Interior Design (2)
Arts, AV Technology & Communication			
		Available Certification: Final Cut, Maya, Adobe Student Organization: Skills USA, BPA, National Technical Honor Society	
<input type="checkbox"/> Digital & Inter. Media (Desktop Publishing) (1) <input type="checkbox"/> Art 1 or 2 (1) <input type="checkbox"/> Broadcast Journalism 1 (1)	<input type="checkbox"/> CTEC- Graphic Design & Illustration (2) <input type="checkbox"/> Digital Graphics & Animation (1) <input type="checkbox"/> Broadcast Journalism 2 (1) <input type="checkbox"/> Fashion Design (1)	<input type="checkbox"/> CTEC – Adv. Graphic Design & Illustration (2) <input type="checkbox"/> CTEC – Animation (2) <input type="checkbox"/> CTEC – Audio & Video Production (2) <input type="checkbox"/> Advanced Fashion Design (1)	<input type="checkbox"/> CTEC – Practicum in Graphic Design & Illus. (2) <input type="checkbox"/> CTEC – Advanced Animation (2) <input type="checkbox"/> CTEC – Advanced Audio & Video Prod. (2)
Business Management & Administration			
		Available Certification: MOS Student Organization: Business Professionals of America (BPA), National Technical Honor Society	
<input type="checkbox"/> Business Information Management 1 (1) <input type="checkbox"/> Survey of Bus., Mktg. & Finance (1/2)	<input type="checkbox"/> Entrepreneurship (1) <input type="checkbox"/> Business Law (1/2)	<input type="checkbox"/> CTEC – Business Information Management 2 (1) <input type="checkbox"/> Global Business (1/2)	<input type="checkbox"/> CTEC – Marketing Dynamics (3)
Education & Training			
Student Organization: Family, Career, Community Leaders of America & Texas Association of Future Educators			
<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.	<input type="checkbox"/> CTEC – Adv. Practicum in Educ. Practice (2) <input type="checkbox"/> CTEC – Practicum in Child Guid. & Mgmt. (2)
Financial Systems			
		Available Certification: Microsoft Office Specialist Student Organization: Business Professionals of America (BPA)	
<input type="checkbox"/> Survey of Bus., Mktg. & Finance (1/2) <input type="checkbox"/> Business Information Management 1 (1)	<input type="checkbox"/> Banking & Financial Services (1/2) <input type="checkbox"/> Accounting I (1) <input type="checkbox"/> Dollars & Sense (1/2)	<input type="checkbox"/> CTEC - Accounting II (1) <input type="checkbox"/> CTEC – Securities & Investments (1/2) <input type="checkbox"/> CTEC – Money Matters (1/2)	<input type="checkbox"/> CTEC – Marketing Dynamics (3)
Government & Public Administration			
Student Organization: Mock Trial			
<input type="checkbox"/> CTEC - Survey of Law, Public Safety, Corrections & Security(1/2)	<input type="checkbox"/> Law 1 (1/2) <input type="checkbox"/> Law 2 (1/2)	<input type="checkbox"/> CTEC – Court Systems & Practices (1) <input type="checkbox"/> CTEC - Political Science I (1)	<input type="checkbox"/> CTEC – Mock Trial(1) – political science 2

Program Electives

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Health Science			
		Available Certification: Certified Nurse Assistant, Pharmacy Technician Student Organization: HOSA	
<input type="checkbox"/> Medical Terminology (1/2)	<input type="checkbox"/> Health Science (1)	<input type="checkbox"/> CTEC – Instructional Practice in Health Science (2) <input type="checkbox"/> Anatomy & Physiology (1)	<input type="checkbox"/> CTEC – Practicum in Health Science (2) <input type="checkbox"/> CTEC - Pathophysiology (1/2) <input type="checkbox"/> CTEC - Medical Microbiology (1/2)
Hospitality & Tourism			
		Available Certification: ServSafe Student Organization: FCCLA, Texas Restaurant Association	
<input type="checkbox"/> Survey of Hosp. & Tourism (1/2) <input type="checkbox"/> Travel & Tourism Mgmt. (1/2)	<input type="checkbox"/> Introduction to Culinary Arts (1) <input type="checkbox"/> CTEC - Hotel Management (1) <input type="checkbox"/> CTEC - Restaurant Management (1)	<input type="checkbox"/> CTEC – Culinary Arts (2) <input type="checkbox"/> CTEC – Hospitality Services (2)	<input type="checkbox"/> CTEC – Practicum in Culinary Arts (2) <input type="checkbox"/> Food Science (1) – Science Credit
Information Technology			
		Available Certification: PNIE, CCENT, CCNA, A+, Server + Student Organization: National Technology Honor Society, BPA, Computer Science Club	
<input type="checkbox"/> Computer Maintenance I (1) <input type="checkbox"/> Survey of Information Tech. (1/2)	<input type="checkbox"/> CTEC – (DHTI) Telecommunications & Networking <input type="checkbox"/> Computer Science (1) <input type="checkbox"/> Web Technologies (1)	<input type="checkbox"/> CTEC – (CISCO) Internet Working 1 (1) <input type="checkbox"/> AP Computer Science (1) <input type="checkbox"/> CTEC – Mobile Application Programming (1)	<input type="checkbox"/> CTEC – (CISCO) Internet Working 2 (1) <input type="checkbox"/> CTEC – Video Game Design (1)
Law, Public Safety, Corrections, & Security			
		Available Certification: TCLEOSE Student Organization: Texas High School Mock Trial	
<input type="checkbox"/> CTEC - Survey of Law, Public Safety, Corrections & Security (1/2)	<input type="checkbox"/> CTEC – Law Enforcement (1) <input type="checkbox"/> CTEC – Security Services (1)	<input type="checkbox"/> CTEC – Advanced Law Enforcement (1) <input type="checkbox"/> CTEC – Correctional Services (1)	<input type="checkbox"/> CTEC – Practicum in Law Enforcement (2) <input type="checkbox"/> CTEC – Forensic Science (1) – Science Credit
Marketing, Sales, & Service			
		Available Certification: A*S*K Certification Student Organization: DECA	
<input type="checkbox"/> Survey of Bus., Mktg. & Finance (1/2) <input type="checkbox"/> Fashion Marketing (1)	<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)	<input type="checkbox"/> CTEC – Practicum in Marketing Dynamics (3)
Science, Technology, Engineering & Mathematics			
Student Organization: Computer Science Club & Project Lead the Way			
<input type="checkbox"/> CTEC – PLTW - Introduction to Eng. Design (1) <input type="checkbox"/> Business Information Management 1 (1) <input type="checkbox"/> Survey of Arch. & Construction (1/2)	<input type="checkbox"/> CTEC – PLTW - Principles of Eng. Design (1) <input type="checkbox"/> CTEC – Electronics (1)	<input type="checkbox"/> CTEC – PLTW - Digital Electronics (1) <input type="checkbox"/> CTEC – PLTW - Civil Eng. & Architecture (1) <input type="checkbox"/> CTEC – PLTW - Aerospace Engineering (1)	<input type="checkbox"/> CTEC – PLTW - Eng. Design & Development (1)
<p>Students Do NOT NEED to Take EVERY Course Listed Under Each Grade Level. There are MANY Options in Each Program – Talk to Your Counselor or CTE Teacher !!!</p> <p>See the individual programs for additional information on other elective pathway courses and information on post-secondary opportunities specific to individual pathways. ASK YOUR COUNSELOR for this information or contact FISD CTE at cunningw@friscoisd.org</p> <p>These are recommended Programs of Study. Courses may be taken in a different sequence following the FISD academic catalog and appropriate pre-requisites.</p>			

Agriculture, Food & Natural Sciences

Advanced Animal Science (1 credit) 12th grade **Prerequisite: 2 of 3 courses - Equine Science, Livestock Production, or Small Animal Management**

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire 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 11th - 12th grade **(CTEC) (1 credit)**

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. Recommended prerequisite: a minimum of one credit from the 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 required for this course.**

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 required for this course. This course may count as a science credit.**

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

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. Recommended prerequisite: a minimum of one credit from the 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 required for this course.**

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

Prerequisite: Practicum in Veterinary Medical Applications

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. Recommended prerequisite: a minimum of one credit from the 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 required for this course. Students must provide their own transportation to and from off-campus site.**

Agriculture Facilities Design and Fabrication (Level 1) 10th–12th grade **(CTEC) (1 credit)**

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: 9th graders: Survey of Agriculture, Food, & Natural Resources or concurrent enrollment** **10th–12th grade 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. **Materials fee required for this course.**

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

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

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

Prerequisite: 9th graders: Survey of Agriculture, Food, & Natural Resources or concurrent enrollment / 10th-12th grade: 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 required for this course. May count as a fine arts credit.**

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

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) 10th–12th grade
(CTEC) (1 credit)**

Prerequisite: Landscape Design and Turf Grass Mgt

To be prepared for careers in horticultural systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to horticulture and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings. This course is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production. Materials fee required for this course.

Landscape Design and Turf Grass Management (CTEC) (1/2 credit)

9th–12th grade

**Prerequisite: 9th graders: Survey of Agriculture, Food, & Natural Resources or concurrent enrollment
10th-12th grade: 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. Materials fee required for this course.

**Large Animal Mgt (Livestock Production) 9th–12th grade
(1/2 credit)**

Prerequisite: 9th graders: Survey of Agriculture, Food, & Natural Resources or concurrent enrollment

10th-12th grade: 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. Recommended prerequisite: a minimum of one credit from the 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 required for this course.

Practicum in Veterinary Medical Applications (Level 2)

11th–12th grade

(CTEC) (2 credits)

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. Materials fee required for this course. Students must provide their own transportation to and from off-campus site.

Survey of Agriculture, Food, and Natural Resources (1/2 credit)

9th–12th grade

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)**

Prerequisite: 2 of 4 courses-Equine Science, Livestock Production, Small 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. Materials fee required for this course.

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

Prerequisite: 9th graders: Survey of Agriculture, Food, & Natural Resources or concurrent enrollment

10th-12th grade: 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. 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 aquacrops and their ecological needs as related to current agricultural practices.

Architecture & Construction

Advanced Architectural Design (CTEC) (1 credit)

11th–12th grade

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. Materials fee required for this course.

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.

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 required for this course.

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

Prerequisite: Advanced Architectural Design

Practicum in Architectural Design 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. **Materials fee required for this course.**

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

Prerequisite: None

Principles of Architecture and Construction 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. **Materials fee required for this course.**

Arts, A/V Technology & Communication

Advanced Animation (CTEC) (2 credits) 12th grade

Prerequisite: Animation

Careers in animation span all aspects of motion graphics. 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 create three-dimensional animations. The instruction also assists students seeking careers in the animation industry. **Materials fee required for this course.**

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 required for this course. Students must provide their own transportation to and from off-campus site.**

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 needed for success in visual communication industries. Software focus is in Adobe Photoshop and Adobe Illustrator. **Materials fee required for this course.**

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 this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the history and techniques of the animation industry. **Materials fee required for this course.**

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 required for this course. Students must provide their own transportation to and from off-campus site.**

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

Prerequisite: None

Designing and creating multimedia projects for today's technology-driven society allows students to analyze and assess current and emerging technologies in the 21st century. The knowledge and skills acquired will enable students to successfully create digital graphics, video and audio projects. Examples of projects created are magazine covers, posters, advertisements, podcasts, radio commercials and public service announcements. The following software (or similar application) may be utilized: Photoshop, InDesign, Audacity or Garageband, Dreamweaver and Adobe Premiere Elements or iMovie. This course is considered a Technology Applications course.

Digital Graphics and Animation (1 credit) 10th–12th grade

Prerequisite: Art Recommended

In this course students will explore the principles, concepts and methodologies associated with the creation of graphics and animation in a multimedia setting. The overall goal is to be able to create animated multimedia (movie productions both in 3D and 2D environments, including modeling). In addition, students will have the chance to explore user interaction and multi-user interaction with animated multimedia products. Software covered in this course will include: Adobe Photoshop, Maya Animation, and Flash. 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 is considered a Technology Applications course.

Fashion Design (1 credit) 10th–12th grade

Prerequisite: None

Careers in fashion span all aspects of the textile and apparel industries. 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 fashion and the textile and apparel industries. **Materials fee required for this course.**

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

Prerequisite: Desktop Publishing or 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 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.**

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

Prerequisite: Advanced Graphic Design and Illustration

This is the final course in the Graphic Design & Illustration pathway. Students will be expected to develop 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. Additional focus will be placed on professional communication strategies and ethical decision making in regards to graphic design careers. Software focus is in Adobe Photoshop and Adobe Illustrator. **Materials fee required for this course.**

Business, Management & Administration

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

Prerequisite: None

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, as well as create and animate electronic presentations using Microsoft's Office 2007 software. This course is considered a Technology Applications course.

Business Information Management II (CTEC) (1 credit) 11th–12th grade

Prerequisite: Business Information Management I

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society for a successful transition into the workforce and postsecondary education. Students apply advanced technical skills to address business applications of emerging technologies, create advanced word-processing documents for such purposes as advertising campaigns or informational gatherings, develop advanced spreadsheets for use within business finances or data organization, formulate advanced databases for use within corporate or small business inventory purposes, as well as create and animate advanced electronic presentations for demonstration or informational gatherings using Microsoft's Office 2007 software.

Business Law (1/2 credit) 10th–12th grade

Prerequisite: None

Students analyze the social responsibility of business and industry regarding the significant 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 business applications of contemporary legal issues. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions. Materials fee required for this course.

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.

Global Business (1/2 credit) 11th–12th grade

Prerequisite: None

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce and postsecondary education. Students apply technical skills to address global business applications of emerging technologies. Students develop a foundation in the economical, 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

In Principles 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 required for this course.

Touch System Data Entry (1/2 credit) 9th–12th grade

Prerequisite: None

Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will need to apply touch system data entry for production of business documents.

Education & Training

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 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. Fingerprint and/or background checks may be required. A materials fee is required for this course. 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: (2011-2012) Child Development (2012-2013)

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. A TB test is required, and fingerprint and/or background checks may be required. A materials fee is required for this course. 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. A TB test is required, and fingerprint and/or background checks may be required. A materials fee is required for this course. 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: (2011-2012) Survey of Education & Training or Human Growth and Development (2012-2013) 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. **Fingerprint and/or background checks may be required. A materials fee is required for this course. 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
Principles of Education and Training is designed to introduce learners to the various careers available within the education and training career cluster. Students use self-knowledge 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 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 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. **Materials fee required for this course.**

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 global economics with emphasis on the free enterprise system and its impact on consumers and businesses. Students apply critical thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to set long-term financial goals based on those options. Students will determine methods of achieving long-term financial goals through investment, tax planning, short-term savings, budgeting, asset allocation, risk management, consumer awareness, retirement planning, estate planning, and various insurance options. In addition, students will explore a variety of resources that will aid them in making financially sound decisions. **Materials fee required for this course.**

Securities and Investments (CTEC) (1/2 credit) **11th–12th grade**

Prerequisite: None
Students will describe and abide by laws and regulations in order to manage business operations and transactions in the securities industry; access, process, maintain, evaluate, and disseminate information to assist in making decisions common to the securities industry; and monitor, plan, and control day-to-day securities organization activities to ensure continued business functioning. Students will use career planning concepts, tools, and strategies to explore, obtain, and develop a career in the securities industry. Students will determine client needs and wants and respond through planned, personalized communication to influence purchase decisions and enhance future securities sales opportunities. **Materials fee required for this course.**

Government & Public Administration

Court Systems and Practices (CTEC) (1 credit) **11th–12th grade**

Prerequisite: Law I or Law II Recommended
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 Origins and Purpose of Law and Theory and Origins of Constitutional Thought. The course introduces students to the foundations of governmental functions and career opportunities within the United States. Students will examine governmental documents such as the United States Constitution and the Bill of Rights. The course also provides a basic introduction to civil and criminal trial procedures at the state and federal levels. This course will provide a knowledge base for students interested in governmental law or the law profession and supports AcDec and Mock Trial.

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

Prerequisite: Law I
This course provides a more in-depth study and expansion on topics such as civil rights, law enforcement, political activism, the role of media in modern law, and the foundations of governmental functions and career opportunities within the United States. Students will examine governmental documents such as the United States Constitution and the Bill of Rights as a basis for Torts. 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) **10th–12th grade**

Prerequisite: Law I or Law II or concurrent enrollment
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.

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

Prerequisite: Law I or Law II
This course will familiarize the student with political and legal theory through the study of the United States court system; governmental systems; public policies; and political processes, systems, and behaviors.

Health Science Technology

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

Prerequisite: Biology or Concurrent Enrollment
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 required for this course.**

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

Prerequisite: Health Science, Application Required
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. 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 required for this course. Students must provide their own transportation to and from off-campus site. Materials fee ranging from \$125-\$150 required for this course. Students must provide their own transportation to and from off-campus site.**

Medical Microbiology (CTEC) (1/2 credit) 11th–12th grade
Prerequisite: Biology and Chemistry, Anatomy & Physiology

Medical Microbiology is a college preparatory and laboratory-oriented course provides students the opportunity to explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases. This course is intended to provide high school exposure to microbiology concepts for the student who is interested in a health-related career track or the for student who is interested in science in general and biology in particular. **Materials fee 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. **Materials fee required for this course.**

Pathophysiology (CTEC) (1/2 credit) 11th–12th grade
Prerequisite: Biology and Chemistry, Anatomy & Physiology

Pathophysiology is a college preparatory and laboratory-oriented course that will provide students the opportunity to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology. This course is intended for the student who is interested in a health-related career track or for the student who is interested in science in general and biology in particular. **Materials fee required for this course.**

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

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. **Materials fee 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

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 develop advanced clinical skills necessary for employment in the health care industry or continued education in health careers. 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. **A TB test 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

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a 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 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. **Materials fee required for this course. This course may count as a science credit.**

Hospitality Services (CTEC) (2 credits) 11th–12th grade

Prerequisite: Hotel Management or Restaurant Management

Hospitality Services provides students with the academic and technical preparation to pursue high-demand and high-skill careers in hospitality related industries. The knowledge and skills are acquired within a sequential, standards-based program that integrates hands-on and project-based instruction. Standards included in the Hospitality Services course are designed to prepare students for nationally recognized industry certifications, postsecondary education, and entry-level careers. In addition, Hospitality Services is designed so that performance standards meet employer expectations, enhancing the employability of students. Instruction may be delivered through laboratory training or through internships, mentoring, or job shadowing. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. **Materials fee required for this course. Students must provide their own transportation to and from off-campus site.**

Hotel Management (CTEC) (1 credit) 10th–12th grade

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

This course focuses on the knowledge and skills needed to pursue staff and management positions available in the hotel industry. This in-depth study of the lodging industry includes departments within a hotel such as front desk, food and beverage, housekeeping, maintenance, human resources, and accounting. This course will focus on, but not be limited to, professional communication, leadership, management, human resources, technology, and accounting. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. **Materials fee required for this course.**

Introduction to Culinary Arts (1 credit) 10th–12th grade

Prerequisite: None

This laboratory course allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. Students can pursue a National Safety and Sanitation (ServSafe) Certification. **Materials fee required for this course.**

Practicum in Culinary Arts (Level 2) (CTEC) (2 credits) 12th grade

Prerequisite: Culinary Arts

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 required for this course.**

Restaurant Management (CTEC) (1 credit) **10th–12th grade**

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

This course will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. **Materials fee required for this course.**

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

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

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

Prerequisite: Algebra I completed

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. To prepare for success, students must have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. This course is considered a Technology Applications course.

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

Prerequisite: Algebra I and Geometry (concurrent)

This is a beginner's level approach to the computer programming (software engineering) language of JAVA. 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, file management, data structures, 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 is designed as a preparation for programming at the college level. This course is considered a Technology Applications course.

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

Prerequisite: Computer Science

This is an intermediate level approach to the computer programming (software engineering) language of JAVA. Some 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, file management, data structures, graphics, debugging, hardware components, and social implications of computer systems. Upon completion of the course, the student will have created software programs using computer programming concepts. This course is intended for students who want to pursue careers in computer science, mathematics, engineering, or science. This college level course prepares students for the Advanced Placement Computer Science "A" Exam. This course qualifies as a mathematics credit towards graduation on the recommended HSP.

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

Prerequisite: Computer Science I or P Computer Science I (AP Computer Science strongly recommended)

Students acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs for mobil devices and creating appropriate documentation. Students analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health,

safety, and diversity in society and in the workplace as it relates to computer programming. Students apply technical skills to address business applications of emerging technologies. Objective C programming will be utilized for developing programs for mobil devices such as the iPhone and iTouch.

Internet Working I CISCO I and II (CTEC) (1 credit) **11th–12th grade**

Prerequisite: Computer Maintenance recommended

This course will provide the students with basic networking terminology and models, CISCO software commands, and configuration of routing protocols and IP addresses. This is the first year of a two-year program. After two years, the student will be prepared to take the exam to become a CISCO Certified Networking Associate (CCNA). This class **cannot** be used as the state required technology credit.

Internet Working II CISCO III and IV (CTEC) (1 credit) **12th grade**

Prerequisite: Internet Working I (full year), passing score on CISCO I and II exam

CISCO III and IV will provide the students with the knowledge of how to configure CISCO routers and switches and setup a LAN/WAN network. 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 CCNA (CISCO Certified Networking Associate) test. This class **cannot** be used as the state-required technology credit.

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.

Telecommunications and Networking (DHTI) (CTEC) (1 credit) **10th–12th grade**

Prerequisite: Computer Maintenance

Students develop knowledge of the concepts and skills related to telecommunications and data networking technologies and practices in order to apply them to personal or career development. To prepare for success, students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems using models and techniques with real-world digital home technology integration.

Video Game Design (CTEC) (1 credit) **11th–12th grade**

Prerequisite: Computer Science I or AP Computer Science This course is an introduction to the computer skills needed to develop video games using current technology, such as: C++ , basic game design, side scrolling designs, character interaction and computer science programming skills. The students will use the MSDN Academic Alliance Program in the course.

Web Technologies (1 credit) **10th–12th grade**

Prerequisite: Business Information Management I, Digital Graphics and Animation, Digital and Interactive Media, or Desktop Publishing

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 for a fee. 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 is considered a Technology Applications course.

Law, Public Safety, Corrections & Security

Advanced Law Enforcement Emergency Communications (CTEC) (1 credit) **11th–12th grade**

Prerequisite: Law Enforcement or Security Services

Law Enforcement II provides the knowledge and skills necessary to prepare for a career in law enforcement. This course includes the ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony.

Correctional Services (CTEC) (1 credit) **11th–12th grade**

Prerequisite: Security Services or Law Enforcement

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.

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

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.

Practicum in Law Enforcement (CTEC) (2 credits) 12th grade**Prerequisite: Advanced Law Enforcement, Correctional Services, or Court Systems & Practices**

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.

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**

Principles of Law, Public Safety, Corrections, and Security 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.

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. Materials fee required for this course.

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.

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. Materials fee required for this course.

Marketing Dynamics (CTEC & Home Campus) (3 credits) 11th–12th grade**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. 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. Students integrate skills from academic subjects, information technology, interpersonal communication, and management training to make responsible decisions. This course may include paid or unpaid career preparation experience. Materials fee required for this course. Students must provide their own transportation to and from off-campus site.

Practicum in Marketing Dynamics (CTEC) (3 credits) 12th grade**Marketing Work-Based Learning (Level 2)****Prerequisite: Marketing Dynamics, Application Required**

Through 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 or unpaid experience for students participating in a coherent sequence of career and technical education courses in marketing education. Materials fee 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.

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.

Survey of Business, Marketing, and Finance (1/2 credit) 9th–12th grade**Prerequisite: None**

In Principles 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 required for this course.

Science, Technology, Engineering & Mathematics

Electronics (CTEC) (1 credit) 10th–12th grade**Prerequisite: Algebra I**

Students enrolled in this course will demonstrate knowledge and applications of circuits, electronic measurement, and electronic implementation. Through use of the design process, students will transfer academic skills to component designs in a project-based environment. Students will use a variety of hands on equipment to complete assignments and projects. Additionally, students explore career opportunities, employer expectations, and educational needs in the electronics industry.

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: Principles of Engineering

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. 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 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 required for this course.

**PLTW - Civil Engineering & Architecture
(CTEC) (1 credit)**

11th–12th grade

Prerequisite: Principals of Engineering or Architectural Design

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 required for this course.**

**PLTW - Digital Electronics
(CTEC) (1 credit)**

11th–12th grade

Prerequisite: Principles of Engineering or Electronics I

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 required for this course.**

**PLTW - Engineering Design
and Development (CTEC) (1 credit)**

12th grade

**Prerequisite: Principles of Engineering 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 required for this course.**

**PLTW - Introduction to Engineering
Design (CTEC) (1 credit)**

9th–12th grade

Prerequisite: Algebra I

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. 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 required for this course.**

**PLTW - Principles of Engineering (CTEC) (1 credit)
10th-12th grade**

Prerequisite: Geometry and Intro to Engineering Design

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 required for this course.**

Dual Credit - Collin College

AC Circuits (1/2 credit)

11th–12th grade

Prerequisite: Electronics

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: Completion of two PLTW courses

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. 2 credit hours.

DC Circuits (1/2 credit)

11th–12th grade

Prerequisite: Electronics

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.

**Introduction to Green Design
(1/2 credit)**

11th–12th grade

Prerequisite: Completion of two PLTW courses

A general study of Green Design and sustainable environment. Explore the basic principles of Green/Sustainable Design including passive solar, alternative energy, green water technology, recycling, green building certification outline, and interior air quality in built environment. Lab required. 3 credit hours.