



Frisco Independent School District
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Frisco ISD Mission Statement

Our mission is know every student by name and need.

Belief System

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

Every person can learn.

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

Learning is lifelong and unlimited.

Each person is unique.

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

Everyone needs challenge and encouragement.

Imagination and creativity are vital.

Integrity is essential.

A safe and orderly environment is necessary for learning.

Meaningful relationships have profound lifelong impact.

There is always room for improvement.

INTRODUCTION

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

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

All course offerings are subject to change. Funding levels and student interest may affect whether or not an offering is available

DISCRIMINATION DISCLAIMER

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

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

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COURSE OFFERINGS

English Language Arts Courses

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

English I - (1 credit)

9th grade

Prerequisite: None

In English I, students strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. This course focuses on literature that highlights the theme of Coming of Age. Building on their knowledge of literary elements in traditional literary genres, students study the relationship between narrative voice and style, while also analyzing literary and stylistic elements in film and literature. They develop persuasive writing skills by using rhetorical appeals. Performance and oral interpretation of literature build students' speaking and listening skills. Research continues to play an important role as students evaluate social, cultural, and historical influences on texts. Through the use of multiple learning and instructional strategies, students acquire not only the knowledge they need but also the confidence in their own abilities to learn and to communicate effectively in real-world situations. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012 and beyond.

Pre AP English I - (1 credit)

9th grade

Prerequisite: None

Pre-AP English I engages students in learning all the essential knowledge and skills of English I while providing greater depth. This enhanced curriculum builds the tools necessary to succeed in AP Language and Literature classes. Summer reading is required as it provides an avenue for Pre-AP students to both activate academic skills during the summer and to launch academic progress at the beginning of the school year. Independent reading in Pre-AP courses is structured to support students' interaction with a text through the application of close reading analysis with Pre-AP and AP reading strategies, leading to an ability to independently analyze any new text. Students are confronted with increasingly challenging texts, both classic and contemporary, fiction and nonfiction. Students are challenged by complex writing tasks in persuasion, argumentation, literary analysis, and synthesis in order to build capacity to write effectively in these rhetorical modes. With exposure to AP strategies, prompts, nonfiction texts, and varied writing tasks, students will exit the program equipped with the kind of higher-order thinking skills, knowledge, and behaviors necessary to be successful in AP classes and post-secondary education. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012 and beyond.

Principles English I

9th grade

Prerequisite: Committee Recommendation

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

Applied English 1

9th grade

Prerequisite: Committee Recommendation

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

English II - (1 credit)

10th grade

Prerequisite: None

In English II, students strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. This course focuses on the concept of culture and community, and examines how these influences shape identity and perspective. Students read and analyze works of world literature, with emphasis on analysis of how stylistic choices and rhetorical elements shape tone in persuasive and argumentative texts, both print and non-print. Students deconstruct writing prompts and write a synthesis essay that incorporates perspectives from multiple sources. Students develop their independent learning skills as they respond to opportunities for self-evaluation. Through the use of multiple learning and instructional strategies, students acquire not only the knowledge they need but also the confidence in their own abilities to learn and to communicate effectively in real-world situations. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012 and beyond.

Pre AP English II - (1 credit)

10th grade

Prerequisite: None

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

strategies, leading to an ability to independently analyze any new text. Students are confronted with increasingly challenging texts, both classic and contemporary, fiction and nonfiction. Students are challenged by complex writing tasks in persuasion, argumentation, literary analysis, and synthesis in order to build capacity to write effectively in these rhetorical modes. With exposure to AP strategies, prompts, nonfiction texts, and varied writing tasks, students will exit the program equipped with the kind of higher-order thinking skills, knowledge, and behaviors necessary to be successful in AP classes and post-secondary education. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012 and beyond.

Principles English II

10th grade

Prerequisite: Committee Recommendation

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

Applied English II

10th grade

Prerequisite: Committee Recommendation

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

English III - (1 credit)

11th grade

Prerequisite: None

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

Principles English III

11th grade

Prerequisite: Committee Recommendation

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

Applied English III

11th grade

Prerequisite: Committee Recommendation

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

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

11th grade

Prerequisite: None

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.

English IV - (1 credit)

12th grade

Prerequisite: None

In English IV, students strengthen skills in reading analysis and communication. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. This course capitalizes on the confidence and expertise students have gained as interpreters and analyzers of texts by introducing them to multiple lenses through which to view text. Students are asked to broaden their understanding and their interpretive skills by thinking deeply about themes and ideas from multiple perspectives. Using Historical, Cultural, Feminist, Marxist, and Archetypal Criticism, students learn to view texts through some of the filters that result in multiple interpretations of the same text or media story. Students apply the theories of criticism

to their own reading and interpretation of both fiction and nonfiction texts. Through the use of multiple learning and instructional strategies, students acquire not only the knowledge they need but also the confidence in their own abilities to learn and to communicate effectively in real-world situations.

Principles English IV

Prerequisite: Committee Recommendation

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

Applied English IV

Prerequisite: Committee Recommendation

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

AP Literature and Composition (Senior English) - (1 credit)

12th grade

Prerequisite: None

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.

English for Speakers of other Languages ESOL I (1 credit)

9th–12th grade

Prerequisite: Language Proficiency Placement Test, LPAC Recommendation

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

English for Speakers of other Languages ESOL II - (1 credit)

9th–12th grade

Prerequisite: Language Proficiency Placement Test, LPAC Recommendation

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

Independent Study in English I – (1 credit) (PEIMS: 03221800)

9th–11th grade

Independent Study in English II – (1 credit) (PEIMS: 03221810)

9th–11th grade

Independent Study in English III – (1 credit) (PEIMS: 03221820)

9th–11th grade

Prerequisite: LPAC recommendation

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

Independent Study in English IV Practical Writing – (1 credit)

12th grade

(PEIMS: 03221300)

Prerequisite: LPAC recommendation

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

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

9th – 12th grade

Prerequisite: 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)).

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

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

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

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

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

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

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

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

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

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

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

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

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

Photojournalism I is an elective where students learn photographic history, composition elements, media ethics, and explore digital camera techniques through a variety of projects. Photographic selection based on composition elements and camera techniques for presentation will be emphasized. Photojournalism I is a recommended prerequisite for students interested in applying for the yearbook staff. 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. This course may count as a technology applications course.

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

Broadcast I is an elective and may serve as a preliminary course for students interested in serving as a member of the broadcast staff. Students in Broadcast I will learn the basics of TV production. They will learn about the history of broadcast journalism, story types, story idea development and writing in broadcast style. Students will also learn about video camera techniques, basic shooting of video, basic video editing, etc... They will assist in the live announcements and TV broadcast. This course may qualify as either an elective or technology credit towards graduation, not both, beginning with the class of 2014.. A materials fee may be required for this course.

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

Students in Broadcast II will produce daily radio announcements, and will work with the broadcast team. Students will also assist with campus and district-wide projects. Instruction includes operation of different types of cameras, mastery of audio techniques, set lighting, electronic editing, script writing, direction, production, and special effects. This course may qualify as either an elective or technology credit towards graduation, not both, beginning with the class of 2014. A materials fee may be required for this course.

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

Students in Broadcast III will produce the weekly TV newscast. Students will serve as the production crew and act as news anchors for the show. Students will assist with campus and district-wide projects. Instruction includes operation of different types of cameras, mastery of audio techniques, set lighting, electronic editing, script writing, direction, production, and special effects. A materials fee may be required for this course.

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

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

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

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

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

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

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

Students in Video Tech will produce television commercials, PSA's, short films and assist with campus, district-wide and community projects. Instruction includes operation of different types of cameras, mastery of audio techniques, film production, script writing, production and special effects. This course is considered a Technology Applications course beginning with the class of 2014.

Mathematics Courses

- **All math classes use TI-84+ graphing calculators during instruction while students are in the classroom. Because calculators must remain in the classrooms, students are encouraged to purchase their own calculator for use at home.**

Algebra I - (1 credit)

9th grade

Prerequisite: None

Algebra I students will work with functional relationships and problem solving in real situations, including, but not limited to the following: table building, coordinate graphing, equation writing and solving, operations on polynomials, factoring, and real number computation. This course will require an End of Course Exam for any student enrolled from the freshman class of 2011-2012 and beyond.

Principles Algebra I

Prerequisite: Committee Recommendation

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

Applied Algebra 1

Prerequisite: Committee Recommendation

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

Pre-AP Algebra I - (1 credit)

9th grade

Prerequisite: None

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

Algebra II - (1 credit)

9th – 12th grade

Prerequisite: Algebra I

Algebra II expands on the skills learned in Algebra I to prepare students for either Pre-Calculus or Advanced Quantitative Reasoning. This course is taught with a functional approach which gives students a sound foundation for either technical or non-technical degrees in college. Algebra II will include skills associated with linear, quadratic, polynomial, rational, exponential, and logarithmic functions. Algebra II students will also study conic sections and complex numbers.

Pre-AP Algebra II – (1 credit)

9th – 12th grade

Prerequisite: Algebra I or PAP Algebra I

Pre-AP Algebra II expands on the concepts covered in regular Algebra II with an intense focus on high level application, problem solving, and higher order thinking processes. This course will prepare students for Pre-Calculus, Pre-AP Pre-Calculus, or Advanced Quantitative Reasoning. Pre-AP Algebra II is taught with a functional approach which gives students a sound foundation for either technical or non-technical degrees in college. Pre-AP Algebra II will include deep study of the same topics found in regular Algebra II. Students will also develop strategies that prepare them for future Advanced Placement math courses.

Geometry - (1 credit)

9th – 12th grade

Prerequisite: Algebra I or PAP Algebra I

Geometry is a required course that provides for students the study of shapes and figures in our environment through the use of Algebra I. Geometry will include the following areas of study: deductive and inductive reasoning, lines and angles, triangles, parallel lines, quadrilaterals, area, polygons, circles, and geometric solids. Students will also become familiar with the historical development and usefulness of formal mathematical structure through geometric proof.

Pre-AP Geometry - (1 credit)

9th – 12th grade

Prerequisite: Algebra I or PAP Algebra I

Pre-AP Geometry covers the same topics of regular geometry with an intense focus on problem solving, formal proof, logic, and application. Students must have a strong background in algebra and be very comfortable solving equations, working with variables, solving systems of equations, and factoring. Pre-AP Geometry will include deep study of the same topics found in regular Geometry. Students will also develop strategies that prepare them for future Advanced Placement math courses.

Principles Geometry

Prerequisite: Committee Recommendation

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

Applied Geometry

Prerequisite: Committee Recommendation

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

Mathematical Models

with Applications (MMA) - (1 credit)

10th- 12th grade

Prerequisite: Algebra I

The primary purpose of this course is to use mathematics as a tool to model real world phenomena in science, finance, music, and art. The finance content will include growth models (investments, insurance, and retirement) as well as pay-off models (automobile loans and home loans). Some geometry and algebra I concepts will also be covered. This course will count as a third mathematics credit if taken prior to Algebra II.

Principles Mathematical Models

with Applications (MMA)

Prerequisite: Committee Recommendation

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

Applied Mathematical Models

with Applications (MMA)

Prerequisite: Committee Recommendation

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

Applied Math 4

Prerequisite: Committee Recommendation

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

Mathematics Lab – (1/2 to 1 credit)

9th – 12th grade

Prerequisite: Teacher recommendation

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

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

Prerequisite: Algebra II

Advanced Quantitative Reasoning is a mathematics course for high school juniors and/or seniors that follows Algebra I, Geometry, and Algebra II. This course is a rigorous mathematics class for students who intend to major in non-technical fields of study upon entering college. The course offers student activities in a range of applied contexts and helps students develop college and career readiness skills such as collaborating, conducting research, and making presentations. This course serves as an alternative to Pre-Calculus.

Pre-Calculus- (1 credit)

10th- 12th grade

Prerequisite: Algebra II or PAP Algebra II

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

Pre-AP Pre-Calculus - (1 credit)

10th–12th grade

Prerequisite: Algebra II or PAP Algebra II

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

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

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

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

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

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

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

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

This course meets twice a week at Collin County Community College for one semester. College Algebra is a study of relations and functions including polynomial, rational, exponential, logarithmic, and special functions. Other topics include complex numbers, systems of equations, and inequalities, theory of equations, progressions, the binomial theorem, proofs, and applications. Students are responsible for all transportation, books, fees, and tuition at the college and must pass THEA to enroll.

Calculus for Business and Economics - (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. Calculus for Business and Economics I provides an introductory study of the business applications of calculus. Topics include limits, rates of change, differentiation, graphing and optimization, integration, and selected applications of calculus and business. Although this course does not have a corresponding College Board Advanced Placement Exam, it is a college course designed for students who plan to major in business in college. This is a dual credit course and upon completion, the student can receive 3 hours of college credit for this course. Students are responsible for all transportation, books, fees, and tuition at the college and must pass 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 4 courses - Equine Science, Livestock Production, Companion Animal Management, or Wildlife Fisheries & Ecology Management**

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. This course may count as a science credit.

Advanced Plant and Soil Science ♥ (CTEC) (1 credit) 12th grade**Prerequisite: Advanced Horticulture & Floral Design**

This course provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. Investigations, laboratory practices, and field exercises will be used to develop an understanding of current plant and soil science. This course is designed to prepare students for careers in the food and fiber industry. Students will learn, reinforce, apply, and transfer their knowledge in a scientific setting. Materials fee may be required for this course. This course may count as a science credit.

Food Science (1 credit) ♥ 12th grade**Prerequisite: Biology and Chemistry**

In Food Science students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Food Science is the study of the nature of foods, the causes of deterioration, the principles underlying food processing, and the improvement of foods for the consuming public. Materials fee may be required for this course. This course may count as a science credit.

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

Forensic Science is a course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensic science. This course may count as a science credit.

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

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

Principles IPC**Prerequisite: Committee Recommendation**

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

Applied IPC**Prerequisite: Committee Recommendation**

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

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

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

Principles of Biology**Prerequisite: Committee Recommendation**

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

Applied Biology**Prerequisite: Committee Recommendation**

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

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

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

AP Biology - (1 credit) 11th – 12th grade**Prerequisite: Biology, Chemistry, or Teacher Recommendation**

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

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

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

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

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

Applied Chemistry

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

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

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

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

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

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

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

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

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

AP Physics 2 or AP Physics C. This course is intended to prepare students to take the AP Physics 1 exam in order to earn college course credit depending on exam score.

Additional contact time outside the normal school day may be required. This is a college level course. (For the 14-15 school year, students taking PAP Physics in 13-14 are not allowed to take AP Physics 1)

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

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

AP Physics C - (1 credit) 10th – 12th grade**Prerequisite: Physics and Pre-Calculus****Co-requisite: AP Calculus (AB or BC)**

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

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

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

Principles of Environmental Systems**Prerequisite: Biology and IPC or Chemistry/Committee****Recommendation**

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

Applied Environmental Systems**Prerequisite: Committee Recommendation**

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

AP Environmental Science - (1 credit) 11th – 12th grade**Prerequisite: Biology, Chemistry and Algebra I**

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

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

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

Principles of Aquatics

Prerequisite: Biology / Committee Recommendation

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

Applied Aquatics

Prerequisite: Committee Recommendation

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

Anatomy and Physiology - (1 credit)

10th – 12th grade

Prerequisite: Biology

Co-Requisite: Chemistry

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

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

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

Prerequisite: Biology, Chemistry, Anatomy and Physiology

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

Pathophysiology - (1/2 credit) (CTEC)

11th - 12th grade

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

Prerequisite: Biology, Chemistry, Anatomy and Physiology

Pathophysiology is a college preparatory and laboratory-oriented course that will provide opportunities for the student to study the nature of disease, its causes, and the various affects diseases have on the human body. The student will apply proper lab techniques to the study of healthy and diseased tissue and be able to recognize samples of each. The course is intended for the student who is particularly interested in a health-related career track or for the student who is interested in the biological sciences. This course may count as 1/2 of the 4th science credit in the recommended and DAP graduation plans.

Earth and Space Science - (1 credit)

11th - 12th grade

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

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

Social Studies and Economics Courses

World Geography - (1 credit)

9th grade

Prerequisite: None

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

Principles World Geography - (1 credit)

Prerequisite: Committee Recommendation

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

Applied World Geography - (1 credit)

Prerequisite: Committee Recommendation

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

AP Human Geography - (1 credit)

9th grade

Prerequisite: none

The course is normally a one-semester course but will be taught as a one-year course in order to teach 9th grade students the strategies and techniques needed to be successful in an Advanced Placement college level course. This course replaces the Pre AP Geography course offered in the past. This college level course is designed to introduce students to the patterns and processes of the earth, its regions, and its people. In examining how people have interacted with the earth over time, students will examine concepts such as culture, population, political organization, cities, agriculture and land use, as well as industrialization and economic development. They also learn about the methods and tools geographers use in their science and practice. This course is an introduction to college level coursework and will require academic determination and responsibility. Students taking this course should have strong reading and writing skills. To meet the standards for this course, a unit on physical geography will be included to address the TEKS that are not part of the College Board course. Upon completion of this course, interested students will also be eligible to take the national AP examination in May to earn college credit.

World History Studies - (1 credit)

10th grade

Prerequisite: None

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

Principles World History - (1 credit)

Prerequisite: Committee Recommendation

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

Applied World History - (1 credit)

Prerequisite: Committee Recommendation

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

AP World History - (1 credit)

10th grade

Prerequisite: None

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

United States History - (1 credit)

11th grade

Prerequisite: None

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

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

Prerequisite: Committee Recommendation

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

Applied U.S. History - (1 credit)

Prerequisite: Committee Recommendation

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

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

AP United States History is a **college level course** designed to give students the opportunity to study the history and development of the United States in a more in-depth manner than regular United States History. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. The content for this course emphasizes the Colonial-Revolutionary War Period, Constitutional Period, the Age of Jackson, the Civil War and Reconstruction, the Progressive Era, the New Deal, and the emergence of America as a world power after World War II. Students will learn to assess historical materials -- their relevance to a given interpretive problem, reliability and their importance -- and to weigh the evidence and interpretations presented in historical scholarship. Great emphasis is placed on the intellectual, cultural and socioeconomic history of the United States. Students will also study and analyze the politics and diplomacy of this country. Students will have the opportunity to take the Advanced Placement Exam upon completion of the course. This course fulfills the graduation requirement of U.S. History. This course covers the 11th grade standards (TEKS) in a different 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 and beyond.

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

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

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

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

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

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

Economics (emphasis on free enterprise) - (1/2 credit)**12th grade****Prerequisite: None**

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

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

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

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

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

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

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

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

AP European History is a course designed to provide opportunities for students to study the history and development of European cultures and ideas in an in-depth manner. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Significant emphasis is given to questions in intellectual-cultural and social-economic history, as well as to those in the more traditional political-diplomatic

sphere. Students are expected to demonstrate knowledge of basic chronology and major events and trends from the High Renaissance to the present. In addition to understanding the principal themes in European history, the students will develop their ability to analyze historical events, to assess historical materials, and to weigh the evidence and interpretations presented in historical scholarship. Students will have the opportunity to take the Advanced Placement Exam upon completion of the course. This is an elective course and cannot be substituted for the graduation requirement of World History. **This is a college level course.**

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

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

Law I: History of Law - (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. This course includes online curriculum. Course may be offered at the home campus or at the CTEC.

Law II: Civil Law and Criminal Law (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. Course may be offered at the home campus or at the CTEC.

Mock Trial (CTEC) (1 credit)**10th-12th grade****Prerequisite: Prerequisite: Law I**

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 County 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.

AP Human Geography - (1/2 credit) 11th - 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.

Fine Arts Courses

Art

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

Prerequisite: None

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

Pre AP Art I - (1 credit) Entering 9th grade in 2014-15 or after

Prerequisite: None

Pre Advanced Placement Art I may be substituted for Art I. Art I curriculum will be covered however students will be required to produce work at a more advanced level both in quality and quantity. This course is designed specifically to challenge the student that has had 2-3 years of middle school art credit and / or is intending to pursue the more rigorous AP Studio Art classes. Students will learn what will be expected of them for the AP Portfolio Examination. **Students are required to purchase a specific list of supplies costing approximately \$40-\$45.** Supplies must be purchased during the first 2 weeks of school to remain in the class.

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

Prerequisite: Art I - Pre AP Art I

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

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

Prerequisite: Art I - Pre AP 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.

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

Prerequisite: Art II/III

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

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

Prerequisite: Art II - Pre AP I recommended

Advanced Placement Studio Art is a college level drawing portfolio class designed for students who are seriously interested in the practical experience of art. This College Board Program provides the only national standard for performance in the visual arts that allows students to earn college credit and/or advanced placement while still in high school. First year AP Art students prepare a Drawing Portfolio. The portfolio requires actual examples and digital images of student artwork within a three-section structure of quality, concentration and breadth. **Students are required to purchase a specific list of supplies costing approximately \$50-60, and a \$25 matting fee. Additional supply cost may also be incurred.** Supplies for AP will overlap with students enrolled in Art II, III, and IV. Supplies must be purchased during the first 2 weeks of school to remain in the class. Matting fees must be returned by the end of the first six weeks. If possible, students should take AP Art with a regular Art class. AP students are given the opportunity to submit a portfolio exam to the College Board for college credit.

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

Prerequisite: None

(World, European or U. S. History recommended)

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

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

Prerequisites: Pre AP Art I or Art II recommended

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

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

Prerequisites: AP Studio Art 2D Design recommended)

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

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

Prerequisite: none

To be prepared for careers in floral design, students need to attain academic skills and knowledge as well as technical knowledge and skills related to horticultural systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply and transfer their knowledge and skills and technologies in a variety of settings. This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises.

Through the analysis of artistic floral styles and historical periods, students develop respect for the traditions and contributions of diverse cultures. Students respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations. **Materials fee required for this course. May count as a fine arts credit.**

Music

Band - (1 credit)

9th – 12th grade

Prerequisite: Teacher recommendation

Band is a rigorous, full year course concentrating on the continued development of fundamental wind and percussion skills. The 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.

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.**

Beginning Classical Guitar - (1 credit)

9th – 12th grade

Prerequisite: None

Beginning guitar students in 9th thru 12th grade who have no or little training. Students will be taught posture, intonation and fluency of their instrument. They will be introduced to different styles of playing and the proper technique. They will develop rhythm reading skills and will learn the scales of C, G, D and F Major in one and two octaves. Students will be taught to read musical notation and understand musical terminology. Students will explore all styles of music

Intermediate Classical Guitar - (1 credit)

9th – 12th grade

Prerequisite: Beginning Classical Guitar or teacher recommendation

This course is a continuation of Beginning Guitar (Classical) for guitar students. Emphasis is on developing the individual and ensemble skills. Prerequisite skills include music notation reading, major scales, right hand fingerings (p,i,m,a), and basic chords. This course will develop more complex music notation reading, shifting, and extensive focus on right hand development.

Advanced Classical Guitar - (1 credit)

Prerequisite: Audition only

This course is an audition only ensemble. Students skills will be developed through three octave scales, etudes from well know composers as Sor, Aguado, Carcassi, Coste and Giuliani and other famous guitar literature. Students will learn about the development of the guitar through the historical periods and learn to identify different styles of guitar music. Students will perform literature from the TMEA UIL Solo/ Ensemble list and participate in State solo/ensemble as well as local and national guitar festivals. Students will perform complex music for solo and chamber ensembles.

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.** Students may earn a fine arts credit and P.E. substitution credit for this course. UIL athletes may not take this course, due to UIL regulations.

Dance II - Technique - (1 credit) 10th – 12th grade**Prerequisite: Dance I**

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

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

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

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

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

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

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

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

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

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

Chinese I is offered in an on-line format during the school day. Students build a basic foundation of Chinese language and culture. Class time is dedicated to interactive activities allowing students to acquire skills in speaking, listening, reading, and writing. Through multimedia teaching materials and activities, students are introduced to many aspects of Chinese culture. The on-line learning platform utilized for this course helps students maximize their learning and practice experience. This course will be held at the each campus. The offering of this course is subject to confirmed student enrollment.

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

Chinese II is offered in an on-line format during the school day. Students continue to build a basic foundation of Chinese language and culture. Class time is dedicated to interactive activities allowing students to acquire skills in speaking, listening, reading, and writing. Through multimedia teaching materials and activities, students are introduced to many aspects of Chinese culture. The on-line learning platform utilized for this course helps students maximize their learning and practice experience. This course will be held at each campus.

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 1 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.

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. *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.*

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

ASL IV is a project-driven course designed to equip students with knowledge essential to collegiate success in ASL and/or Deafness related fields. This course allows students to connect their success in ASL to the preparation of earning college credit. ASL IV may meet during the zero hour.

Health and Physical Education Courses

Physical Education Requirements

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

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

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

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

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

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

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

Individual Sports is a course that teaches lifetime individual fitness activities. Students participating in Individual Sports will receive instruction in table tennis, badminton, golf, bowling, weight lifting, swimming, walking/running, Frisbee, etc...

Team Sports is a course that teaches intramural/fitness for life. Students participating in Team Sports will receive instruction in of flag football, basketball, volleyball, soccer, hockey, softball, Frisbee football, etc.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Local Elective Courses**Student Technology Work Program (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 ASAP (1/2 local credit) 9th – 11th grade**Prerequisite: Instructor Approval**

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

PSAT TEAM - (1/2 local credit) 10th – 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) 10th – 11th grade

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

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

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

Independent Study and Mentorship Program**Independent Study and Mentorship Program 11th – 12th grade (1 credit)****Prerequisite: Application Process**

Students focus their study on a topic 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 in this academically rigorous course. Students work with mentors at their place of business to gain "real world" experience. They will work with their mentor to create a product related to their topic. Students give progressively longer speech presentations and will give a formal presentation of their product and mentorship in May. **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 b

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 Program

Prerequisite: 25 credits and Committee Recommendation

“A Step Beyond” program is 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 Education

The mission of Career and Technical Education is to prepare students to succeed in high demand occupations within the 21st century's competitive global economy and to provide students with the academic skills necessary to continue their education in post-secondary schools. Career and Technical Education can help students explore their potential and establish future career goals. Students can use the Career Programs of Study to choose courses that interest them. Students do not need to take every course listed under each grade level as there are many options within each program.

Career & Technical Education Center (CTEC)

The Frisco ISD CTE Center houses advanced CTE courses for Frisco ISD high school students. Students will remain on their "home" campus for all of their coursework with the exception of the courses designated as (CTEC). The Frisco ISD CTE Center will allow students to explore post-secondary and career options at an increased academic level with a relevant, industry-standard learning experience.

Many of the courses offered at the Frisco ISD CTE Center meet the requirements of the "Advanced Measures" component of the Distinguished Achievement Program and offer articulated college credit. The Frisco ISD CTE Center allows a student to pursue an interest rather than make a life-long commitment. This allows an opportunity for students to choose courses that truly interest them, providing a meaningful connection to the curriculum and school.

Classes at the Frisco ISD CTE Center may have fees associated with them for lab materials, supplies, student organization costs, and industry-standard or professional examinations. Frisco ISD will provide transportation to and from the CTE Center during the instructional day. At times, CTE Center courses may conflict with non-academic activities on the home campus. Students will be expected to remain in their academic classes at the CTE Center. CTE Center students are also expected to maintain good attendance, behavior and grades.

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

CTE Courses and Articulated College Credit

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

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

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

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

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



Key for CTE Courses:

- 🖨- Course counts as Tech Apps for Class of 2014 and later
- 🖨- Course counts as Tech Apps for Class of 2013
- 📖- Course counts as 4th Science Credit in RHSP & DAP HSP
- 📖- Course counts as a 4th Math Credit in RHSP & DAP HSP
- 🎨- Course counts as a Fine Arts Credit
- 🏠- Course counts as a DAP measure
- 🏠- Course counts as a Health Credit

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

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

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

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

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

- Digital Graphics & Animation
- Elements of Floral Design

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

- AP Computer Science

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

- Health Science Technology – please read prerequisite information

The charts on p. 22-24 are tentative pathways to meet the proposed endorsement requirements for the proposed new graduation plans that affect students entering 9th grade in the 2014-2015 school year. The charts also contain the current CTE pathways that have been in place since 2006 for all students in Frisco ISD high schools, specifically under the following endorsement pathways: Business & Industry, Public Service, & STEM.

The Texas Education Agency, the State Board of Education, and the Frisco ISD School Board had not yet made final decisions on the proposed graduation plans or the endorsement pathways at the time this document went to press. Please see your counselor for further questions.

FISD Endorsement Pathways

9th Grade	10th Grade	11th Grade	12th Grade
ARTS & HUMANITIES ENDORSEMENT – Pending SBOE & TEA Decisions TBD in Spring 2014			
<i>Art</i>			
<input type="checkbox"/> Art 1 <input type="checkbox"/> PAP Art 1 (9th Graders 2014 ONLY)	<input type="checkbox"/> Art 2 <input type="checkbox"/> AP Art – Drawing <input type="checkbox"/> Art 2 - Ceramics	<input type="checkbox"/> Art 3 <input type="checkbox"/> AP Art – 2D or 3D <input type="checkbox"/> AP Art –Drawing	<input type="checkbox"/> Art 4 <input type="checkbox"/> AP Art – 3D <input type="checkbox"/> AP Art History
<i>Dance</i>			
<input type="checkbox"/> Dance 1	<input type="checkbox"/> Dance 2	<input type="checkbox"/> Dance 3	<input type="checkbox"/> Dance 4
<i>Music</i>			
<input type="checkbox"/> Band 1 <input type="checkbox"/> Orchestra 1 <input type="checkbox"/> Choir 1	<input type="checkbox"/> Band 2 <input type="checkbox"/> Orchestra 2 <input type="checkbox"/> Choir 2	<input type="checkbox"/> Band 3 <input type="checkbox"/> Orchestra 3 <input type="checkbox"/> Choir 3	<input type="checkbox"/> Band 4 <input type="checkbox"/> Orchestra 4 <input type="checkbox"/> Choir 4
<i>Theatre</i>			
<input type="checkbox"/> Theatre Arts 1 <input type="checkbox"/> Tech. Theater 1	<input type="checkbox"/> Theatre Arts 2 <input type="checkbox"/> Tech. Theater 2	<input type="checkbox"/> Theatre Arts 3 <input type="checkbox"/> Tech. Theater 3 <input type="checkbox"/> Theater Production 1	<input type="checkbox"/> Theatre Arts 4 <input type="checkbox"/> Tech. Theater 4 <input type="checkbox"/> Theater Production 2
<i>Language</i>			
<input type="checkbox"/> Spanish 1 or PAP Spanish 1 <input type="checkbox"/> French 1 or PAP French 1 <input type="checkbox"/> ASL 1 <input type="checkbox"/> Chinese 1	<input type="checkbox"/> Spanish 2 or PAP Spanish 2 <input type="checkbox"/> French 2 or PAP French 2 <input type="checkbox"/> ASL 2 <input type="checkbox"/> Chinese 2	<input type="checkbox"/> Spanish 3 or AP Spanish 3 <input type="checkbox"/> French 3 or AP French 3 <input type="checkbox"/> ASL 3 <input type="checkbox"/> Chinese 3 (Not Offered at this time)	<input type="checkbox"/> Spanish 4 or AP Spanish 4 <input type="checkbox"/> French 4 or AP French 4 <input type="checkbox"/> ASL 4 <input type="checkbox"/> Chinese 4 (Not Offered at this time)
BUSINESS & INDUSTRY ENDORSEMENT – Pending SBOE & TEA Decisions TBD in Spring 2014			
<i>Advanced Journalism – TBD Pending SBOE Decisions Published in February, 2014</i>			
<input type="checkbox"/> Journalism (1) or Photojournalism (1) <input type="checkbox"/> Broadcast 1 <input type="checkbox"/> Debate 1 or Oral Interpretation	<input type="checkbox"/> Yearbook 1 <input type="checkbox"/> Broadcast 2 <input type="checkbox"/> Debate 2	<input type="checkbox"/> Yearbook 2 <input type="checkbox"/> Broadcast 3 <input type="checkbox"/> Debate 3	<input type="checkbox"/> Yearbook 3 <input type="checkbox"/> Video Technology <input type="checkbox"/> Adv. Public Speaking
<i>Agriculture, Food & Natural Resources – Animal Science</i>			
<input type="checkbox"/> Survey of Ag., Food & Natural Res. (1/2) <input type="checkbox"/> Companion Animal Mgmt. (Small Animal) (1/2) <input type="checkbox"/> Livestock Production (Large Animal Mgmt) (1/2) <input type="checkbox"/> Business Information Management 1 (1)	<input type="checkbox"/> Horse Production (Equine Science) (1/2) <input type="checkbox"/> Wildlife, Fisheries, & Eco. Mgmt. (1/2)	<input type="checkbox"/> CTEC – Veterinary Medical Applications (1)	<input type="checkbox"/> CTEC – Practicum in Veterinary Medical Applications (2) <input type="checkbox"/> CTEC – Adv. Animal Science (1) – Science Credit
<i>Agriculture, Food & Natural Resources – Horticulture & Landscape Design</i>			
<input type="checkbox"/> Survey of Agriculture, Food & Natural Res. (1/2) <input type="checkbox"/> CTEC – Landscape & Turf Grass Mgmt. (1/2) <input type="checkbox"/> Business Information Management 1 (1)	<input type="checkbox"/> CTEC – Horticulture Science (1/2) <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
<i>Agriculture, Food & Natural Resource – Ag Mechanics</i>			
<input type="checkbox"/> Agricultural Mechanics & Metal Technologies (1) <input type="checkbox"/> Survey of Ag., Food & Natural Res. (1/2) <input type="checkbox"/> Intro. To Ag. Mechanics & Metal Technology (1/2) <input type="checkbox"/> Business Information Management 1 (1)	<input type="checkbox"/> CTEC – Ag Facilities Design & Fabrication (1)	<input type="checkbox"/> CTEC – Practicum in Agricultural Facilities Design & Fabrication (2) <input type="checkbox"/> CTEC – Agricultural Power Systems (1)	<input type="checkbox"/> CTEC –Advanced Practicum in Agricultural Facilities Design & Fabrication (2)

Students do NOT NEED to take EVERY course listed under each grade level, nor are these prescribed sequences for students – these are recommended sequences only. There are MANY options in each endorsement and in each pathway. Please consult your counselor, the FISD Course Catalog, the FISD Academic Guide, or the CTE Center Counseling Department for additional information on other possible endorsement or pathway course selections.

FISD Endorsement Pathways

9th Grade	10th Grade	11th Grade	12th Grade
Architecture & Construction			
<input type="checkbox"/> Survey of Arch. & Construction (1/2)	<input type="checkbox"/> CTEC – Architectural Design (1)	<input type="checkbox"/> CTEC – Adv. Architectural Design (1)	<input type="checkbox"/> CTEC – Practicum in Arch. Design (2)
<input type="checkbox"/> Business Information Management 1 (1)	<input type="checkbox"/> Interior Design (1)	<input type="checkbox"/> Advanced Interior Design (1)	<input type="checkbox"/> CTEC – Practicum in Interior Design (2)
Arts, AV Technology & Communication			
<input type="checkbox"/> Digital & Interactive Media (1)	<input type="checkbox"/> CTEC- Graphic Design & Illustration (2)	<input type="checkbox"/> CTEC – Adv. Graphic Design & Illustration (2)	<input type="checkbox"/> CTEC – Practicum in Graphic Design & Illus. (2)
<input type="checkbox"/> Digital Graphics & Animation (1) – Fine Arts Credit	<input type="checkbox"/> CTEC – Animation (2)	<input type="checkbox"/> CTEC – Advanced Animation 2D (2)	<input type="checkbox"/> CTEC – Practicum in Animation (2)
<input type="checkbox"/> Broadcast Journalism 1 (1)	<input type="checkbox"/> Broadcast Journalism 2 (1)	<input type="checkbox"/> CTEC – Advanced Animation 3D (2)	<input type="checkbox"/> CTEC – Advanced Audio & Video Prod. (2)
	<input type="checkbox"/> Fashion Design (1)	<input type="checkbox"/> CTEC – Audio & Video Production (2)	
	<input type="checkbox"/> Advanced Fashion Design (1)		
Business Management & Administration			
<input type="checkbox"/> Business Information Management 1 (1)	<input type="checkbox"/> Entrepreneurship (1)	<input type="checkbox"/> CTEC – Business Information Management 2 (1)	<input type="checkbox"/> CTEC – Marketing Dynamics (3)
<input type="checkbox"/> Survey of Bus., Mktg. & Finance (1/2)	<input type="checkbox"/> Business Law (1/2)	<input type="checkbox"/> Global Business (1/2)	
Financial Systems			
<input type="checkbox"/> Survey of Bus., Mktg. & Finance (1/2)	<input type="checkbox"/> Banking & Financial Services (1/2)	<input type="checkbox"/> CTEC - Accounting II (1)	<input type="checkbox"/> CTEC – Marketing Dynamics (3)
<input type="checkbox"/> Business Information Management 1 (1)	<input type="checkbox"/> Accounting I (1)	<input type="checkbox"/> CTEC – Securities & Investments (1/2)	
	<input type="checkbox"/> Dollars & Sense (1/2)	<input type="checkbox"/> CTEC – Money Matters (1/2)	
Hospitality & Tourism			
<input type="checkbox"/> Survey of Hosp. & Tourism (1/2)	<input type="checkbox"/> Introduction to Culinary Arts (1)	<input type="checkbox"/> CTEC – Culinary Arts (2)	<input type="checkbox"/> CTEC – Practicum in Culinary Arts (2)
<input type="checkbox"/> Travel & Tourism Mgmt. (1/2)	<input type="checkbox"/> CTEC - Hotel Management (1)	<input type="checkbox"/> CTEC – Hospitality Services (2)	<input type="checkbox"/> Food Science (1) – Science Credit
<input type="checkbox"/> Business Information Management 1 (1)	<input type="checkbox"/> CTEC - Restaurant Management (1)		<input type="checkbox"/> CTEC – Practicum in Hospitality Services (2)
Information Technology			
<input type="checkbox"/> Computer Maintenance I (1)	<input type="checkbox"/> CTEC - Web Technologies (1)	<input type="checkbox"/> CTEC – Internet Working 1 (CISCO 1 & 2) (1)	<input type="checkbox"/> CTEC – Internet Working 2 (CISCO 3 & 4) (1)
<input type="checkbox"/> Survey of Information Tech. (1/2)		<input type="checkbox"/> CTEC – Mobile Application Programming (1)	<input type="checkbox"/> CTEC – Video Game Design (1)
Marketing, Sales, & Service			
<input type="checkbox"/> Survey of Bus., Mktg. & Finance (1/2)	<input type="checkbox"/> Sports & Entertainment Marketing (1)	<input type="checkbox"/> CTEC - Marketing Dynamics (3)	<input type="checkbox"/> CTEC – Practicum in Marketing Dynamics (3)
<input type="checkbox"/> Fashion Marketing (1)	<input type="checkbox"/> Retailing & E-Tailing (1/2)		
<input type="checkbox"/> Business Information Management 1 (1)	<input type="checkbox"/> CTEC - Advertising & Sales Promotion (1/2)		
Sports & Entertainment Management			
<input type="checkbox"/> Business Information Management 1 (1)	<input type="checkbox"/> Business Law (1/2)	<input type="checkbox"/> Sports & Entertainment Marketing (1)	<input type="checkbox"/> Sports Management (2)
<input type="checkbox"/> Digital & Interactive Media (1)	<input type="checkbox"/> CTEC - Advertising & Sales Promotion (1/2)		
<input type="checkbox"/> Survey of Bus., Mktg. & Finance (1/2)	<input type="checkbox"/> CTEC – Business Information Management 2 (1)		
<input type="checkbox"/> Survey of Hosp. & Tourism (1/2)			
Recommended Courses for MULTIDISCIPLINARY ENDORSEMENT – Pending SBOE & TEA Decisions TBD in Spring 2014			
Core Courses			
<input type="checkbox"/> English 1 (or PAP English 1)	<input type="checkbox"/> English 2 (or PAP English 2)	<input type="checkbox"/> English 3 (or AP English 3)	<input type="checkbox"/> English IV (or AP English IV)
<input type="checkbox"/> Biology (or PAP Biology)	<input type="checkbox"/> Chemistry (or PAP Chemistry)	<input type="checkbox"/> Physics (or AP Physics 1, 2, or C)	<input type="checkbox"/> AP Physics (1, 2, or C) or AP Biology or AP Chemistry or other 4 th Science
<input type="checkbox"/> Algebra 1 (or Geometry)	<input type="checkbox"/> Geometry (or Algebra II or PAP Geometry or PAP Algebra II)	<input type="checkbox"/> Algebra II (or PAP Algebra II)	<input type="checkbox"/> Pre Calculus or AP Calculus or other 4 th Math
<input type="checkbox"/> World Geography (or AP Human Geography)	<input type="checkbox"/> World History (or AP World History)	<input type="checkbox"/> US History (or AP US History)	<input type="checkbox"/> Government & Economics (or AP Gov't. & AP Eco.)

FISD Endorsement Pathways

9th Grade	10th Grade	11th Grade	12th Grade
PUBLIC SERVICE ENDORSEMENT – Pending SBOE & TEA Decisions TBD in Spring 2014			
<i>Education & Training</i>			
<input type="checkbox"/> Survey of Education & Training (1/2)	<input type="checkbox"/> Child Development (1/2)	<input type="checkbox"/> CTEC – Practicum in Educational Practice (2)	<input type="checkbox"/> CTEC – Adv. Practicum in Educ. Practice (2)
<input type="checkbox"/> Business Information Management 1 (1)	<input type="checkbox"/> Individual & Family Life (1/2)	<input type="checkbox"/> CTEC – Child Guidance & Mgmt. (2)	<input type="checkbox"/> CTEC – Practicum in Child Guid. & Mgmt. (2)
<i>Government & Public Administration</i>			
<input type="checkbox"/> CTEC - Survey of Law, Public Safety, Corrections & Security (1/2)	<input type="checkbox"/> Law 1 (1/2)	<input type="checkbox"/> CTEC – Court Systems & Practices (1)	<input type="checkbox"/> CTEC – Mock Trial (1)
<input type="checkbox"/> Business Information Management 1 (1)	<input type="checkbox"/> Law 2 (1/2)	<input type="checkbox"/> CTEC – Political Science (1)	<input type="checkbox"/> CTEC - Practicum in Local Government & Law (2)
<i>Law, Public Safety, Corrections, & Security</i>			
<input type="checkbox"/> CTEC - Survey of Law, Public Safety, Corrections & Security (1/2)	<input type="checkbox"/> CTEC – Law Enforcement (1)	<input type="checkbox"/> CTEC – Emergency Communications & Dispatch (1)	<input type="checkbox"/> CTEC – Practicum in Law Enforcement (1)
<input type="checkbox"/> Business Information Management 1 (1)	<input type="checkbox"/> CTEC – Security Services (1)	<input type="checkbox"/> CTEC – Correctional Services (1)	<input type="checkbox"/> CTEC – Forensic Science (1) – Science Credit
STEM ENDORSEMENT – Pending SBOE & TEA Decisions TBD in Spring 2014			
<i>Computer Science</i>			
<input type="checkbox"/> Computer Science (1)	<input type="checkbox"/> AP Computer Science (1)	<input type="checkbox"/> CTEC – Mobile Application Programming (1)	<input type="checkbox"/> CTEC – Video Game Design (1)
<input type="checkbox"/> Pre-AP Computer Science (1) (9th Graders 2014 ONLY)	<input type="checkbox"/> Advanced Computer Science (1)	<input type="checkbox"/> Advanced Computer Science (1)	
<i>Health Science</i>			
<input type="checkbox"/> Medical Terminology (1/2)	<input type="checkbox"/> Health Science (1)	<input type="checkbox"/> CTEC – Instructional Practice in Health Science Clinical Rotation (2)	<input type="checkbox"/> CTEC – Practicum in Health Science Specialized (2)
<input type="checkbox"/> Business Information Management 1 (1)		<input type="checkbox"/> CTEC – Instructional Practice in Health Science Nursing Home Rotation (2)	<input type="checkbox"/> CTEC – Practicum in Health Science Pharmacology (2)
		<input type="checkbox"/> Anatomy & Physiology (1)	<input type="checkbox"/> CTEC - Pathophysiology (1/2)
		<input type="checkbox"/> Dual Credit Medical Terminology (1/2)	<input type="checkbox"/> CTEC - Medical Microbiology (1/2)
<i>Math (Completion of Algebra II and three additional math courses)</i>			
<input type="checkbox"/> Geometry/Pre-AP Geometry (1)	<input type="checkbox"/> Algebra II/Pre-AP Algebra II (1)	<input type="checkbox"/> Advanced Quantitative Reasoning (1)	<input type="checkbox"/> AP Statistics (1)
	<input type="checkbox"/> AP Computer Science (1)	<input type="checkbox"/> Pre-Calculus/Pre-AP Pre-Calculus (1)	<input type="checkbox"/> Business Calculus (1/2)
		<input type="checkbox"/> AP Calculus AB (1)	<input type="checkbox"/> College Algebra (1/2)
		<input type="checkbox"/> AP Calculus BC (1)	
<i>Science (Completion of Physics and three additional science courses)</i>			
<input type="checkbox"/> Biology/Pre-AP Biology (1)	<input type="checkbox"/> Chemistry/Pre-AP Chemistry (1)	<input type="checkbox"/> Environmental Systems (1)	<input type="checkbox"/> AP Physics B (1)
	<input type="checkbox"/> Anatomy & Physiology (1)	<input type="checkbox"/> AP Environmental Science (1)	<input type="checkbox"/> AP Physics C (1)
	<input type="checkbox"/> Physics/Pre-AP Physics (1)	<input type="checkbox"/> AP Biology (1)	<input type="checkbox"/> Medical Microbiology (1/2) & Pathophysiology (1/2)
		<input type="checkbox"/> AP Chemistry (1)	<input type="checkbox"/> Forensic Science (1)
			<input type="checkbox"/> Advanced Animal Science (1)
			<input type="checkbox"/> Food Science (1)
<i>Science, Technology, Engineering & Mathematics</i>			
<input type="checkbox"/> CTEC – PLTW - Introduction to Eng. Design (1)	<input type="checkbox"/> CTEC – PLTW - Principles of Eng. Design (1)	<input type="checkbox"/> CTEC – PLTW - Digital Electronics (1)	<input type="checkbox"/> CTEC – PLTW - Eng. Design & Development (1)
<input type="checkbox"/> Business Information Management 1 (1)	<input type="checkbox"/> Business Information Management 1 (1)	<input type="checkbox"/> CTEC – PLTW - Civil Eng. & Architecture (1)	
<input type="checkbox"/> Survey of Arch. & Construction (1/2)	<input type="checkbox"/> Survey of Arch. & Construction (1/2)	<input type="checkbox"/> CTEC – PLTW - Aerospace Engineering (1)	

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Agriculture, Food & Natural Sciences

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

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. **This course may count as a science credit.**

Advanced Horticulture and Floral Design 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 may be 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 may be 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 may be required for this course.**

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

To be prepared for careers in agricultural power, structural, and technical systems, students need to attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the

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

Agricultural Power Systems 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.

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

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

Elements of Floral Design (1 credit) 🗨️ 10th–12th grade **Prerequisite: none**

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

Equine Science (Horse Production) 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) 9th–12th grade **(CTEC) (1/2 credit)**

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

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

To be prepared for skills necessary for mastery of welding, agricultural power, structural, and technical systems, students need to attain academic skills and knowledge necessary to be proficient in basic metal working and wood working skills. This course will go over safety, basic operation of power tools, woodworking tools, and metal working tools. This course is designed to develop a basic understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, and fencing.

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

9th–12th grade

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

Large Animal Management (1/2 credit)

9th–12th grade

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) (CTEC) (2 credits)

11th–12th grade

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.

Practicum in Veterinary Medical Applications (Level 2) (CTEC) (2 credits)

12th grade

Prerequisite: Veterinary Medical Applications, Application Required

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

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

9th–10th 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) (CTEC) (1 credit)

11th–12th grade

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.

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

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.

Advanced Interior Design (1 credit)

11th–12th grade

Prerequisite: Interior Design

Advanced Interior Design is a technical laboratory course that includes the knowledge of the employability characteristics, principles, processes, technologies, communication, tools, equipment, and materials related to interior spatial design. **Materials fee required for this course.**

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

Prerequisite: Survey of Architecture and Construction

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

Interior Design (1 credit)

10th–12th grade

Prerequisite: None

Interior Design is a technical course that addresses psychological, physiological, and sociological needs of individuals by enhancing the environments in which they live and work. Individuals use knowledge and skills related to interior and exterior environments, construction, and furnishings to make wise consumer decisions, increase productivity, and compete in industry. **Materials fee may be required for this course.**

Practicum in Architectural Design (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.

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.

Arts, A/V Technology & Communication

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

Prerequisite: Animation

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

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

Prerequisite: Animation

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

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

Prerequisite: Audio/Video Production

Students study the role of media as a tool within academic, social, and democratic processes as they influence tastes, behavior, purchasing, and voting decisions. Students will examine the historical development of different mass media and related technologies and personalities. Students will plan, produce, present, and evaluate media messages. They will develop ways to improve media and formulate guidelines for using media effectively to achieve governmental, societal, and cultural goals. Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production activities. This course may be implemented in an advanced audio format or an advanced format, including both audio and video. **Materials fee may be required for this course. Students may be required to occasionally provide their own transportation to story assignment locations.**

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 may be 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.

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

Prerequisite: Broadcast Journalism II

In an industry standard HDTV studio, students study the role of media as a tool within academic, social, and democratic processes as they influence tastes, behavior, purchasing, and voting decisions. Students will examine the historical development of different mass media and related technologies and personalities. Students will plan, produce, present and evaluate media messages. They will develop ways to improve media and formulate guidelines for using media effectively to achieve governmental, societal, and cultural goals. Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video activities. **Materials fee may be required for this course. Students may be required to occasionally provide their own transportation to story assignment locations.**

Digital and Interactive Media (1 credit) 🎨🎧🎥 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 may count as a technology applications.**

Digital Graphics and Animation (1 credit) 🎨🎥🎧 9th–12th grade

Prerequisite: None

In this first level course, students will explore the basic principles, concepts and methodologies of 2D and 3D animation. Students will create an original character with modeling clay. This character concept will be incorporated into their projects using the various software applications Adobe Photoshop, Adobe Flash, and Autodesk Maya. **Materials fee may be required for this course. This course may count as a fine arts credit. This course may count as a technology applications.**

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.

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

Prerequisite: Digital & Interactive Media

In this course students will explore the creation of 2D computer graphics with an emphasis on the visual communication process, basic terminology and principles and elements of design. Industry standard software is utilized for creation of raster and vector based graphics. Through project-based learning, students will develop the knowledge and skills to produce projects such as posters, brochures, flyers and other various graphic design materials. The student is required to apply technical skills for efficiency and is expected to employ planning and time-management skills to complete work task. A basic working knowledge of Adobe Photoshop is required for this course per the prerequisite. **Materials fee may be required for this course.**

Advanced 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.

Practicum in Graphic Design & Illustration (CTEC)(2 credits) 🎨 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 may be required for this course.**

Business, Management & Administration

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

Prerequisite: None

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society 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 may count as a technology applications.**

Business Information Management II (CTEC) (1 credit) 10th–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. Students will have the option to become certified as a Microsoft Office Specialist.

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.

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

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

Prerequisite: None

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

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. Supply list and fees required. Fingerprint and/or background checks may be required. Students must provide their own transportation to and from the off-campus field sites.

Child Development (1/2 credit) 10th–12th grade

Prerequisite: None

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

education of children. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Child Guidance and Management (Level 1) 11th–12th grade (CTEC) (2 credits)

Prerequisite: Survey of Education & Training AND Child

Development, Application Required

This laboratory course addresses the knowledge and skills related to child growth and guidance equipping students to develop positive relationships with children and effective caregiver skills. Students use these skills to promote the well-being and healthy development of children, strengthen a culturally diverse society, and pursue careers related to the care, guidance, and education of children, including those with special needs. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. Supply list and fees required. A TB test is required, and fingerprint and/or background checks may be required. Students must provide their own transportation to and from the off-campus field sites.

Individual and Family Life (1/2 credit) 10th–12th grade

Prerequisite: None

This course examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Practicum in Child Guidance & Management (Level 2) (CTEC) (2 credits) 12th grade

Prerequisite: Child Guidance and Management, Application

Required

This practicum provides occupationally specific training and focuses on early childhood development and services. Content is designed to meet the occupational preparation needs and interests of students and based upon the knowledge and skills selected from two or more courses in a coherent sequence in the education & training cluster as well as the essential knowledge and skills for communication, critical thinking, problem solving, formation technology, ethical and legal responsibilities, leadership, teamwork, and entrepreneurship. Instruction is delivered through school-based laboratory training and is a non-paid, hands-on, work-based learning course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. Supply list and fees required. A TB test is required, and fingerprint and/or background checks may be required. Students must provide their own transportation to and from the off-campus field sites.

Practicum in Educational Practice (Level 1) (CTEC) (2 credits) 11th–12th grade

Prerequisite: Survey of Education & Training AND Child

Development, Application Required

Instructional Practices in Education and Training is a field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators or trainers in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel. Supply list and fees required. Fingerprint and/or background checks may be required. Students must provide their own transportation to and from the off-campus field sites.

Survey of Education and Training (1/2 credit) 9th–12th grade

Prerequisite: None

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 will be required for this course.**

Accounting II (CTEC) (1 credit) 11th–12th grade

Prerequisite: Accounting I

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

Banking and Financial Services (1/2 credit) 10th–12th grade

Prerequisite: None

Students develop knowledge and skills in the economical, financial, technological, international, social, and ethical aspects of banking to become competent consumers, employees, and entrepreneurs. Students incorporate a broad base of knowledge that includes the operations, sales, and management of banking institutions to gain a complete understanding of how banks function within society.

Dollars and Sense (1/2 credit) 10th–12th grade

Prerequisite: None

Dollars and Sense focuses on consumer practices and responsibilities, the money management process, decision-making skills, impact of technology, and preparation for human services careers. Students are encouraged to participate in career and technical student organizations and other leadership organizations.

Money Matters (CTEC) (1/2 credit) 11th–12th grade

Prerequisite: None

Students will investigate 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 may be 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 may be 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. This course includes online curriculum.

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

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

This course is designed to foster a better understanding of the civil and criminal trial process through simulation and the study of actual as well as fictitious crimes. Students will simulate every level or trial from opening/closing arguments, direct questioning, jury participation and sentencing. **Repeat enrollment not permitted. Lab fee required.**

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

Prerequisite: Law I or Court Systems

This course will familiarize the student with political and legal theory through the study of international governmental systems, as well as the United States court system; governmental systems; public policies; and political processes, systems, and behaviors.

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

Prerequisite: Political Science OR Court Systems OR Mock Trial

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of courses in the Government and Public Administration cluster. Students concurrently learn advanced concepts of political science, criminal, and civil law in the classroom setting. In addition, students will apply technical skills pertaining to government and public administration in a direct mentorship by individuals in professional settings such as government, public management and administration, criminal and civil litigation, municipal planning, foreign service, revenue, taxation, and regulation.

Health Science Technology

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

Prerequisite: (2013-2014) Biology and Medical Terminology

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

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

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

Prerequisite: Health Science, Application Required

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

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

Prerequisite: Biology, Chemistry, Anatomy and Physiology

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

Medical Terminology (1/2 credit) 9th–12th grade Prerequisite: None

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

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

Prerequisite: Biology, Chemistry, Anatomy and Physiology

Pathophysiology is a college preparatory and laboratory-oriented course that will provide opportunities for the student to study the nature of disease, its causes, and the various affects diseases have on the human body. The student will apply proper lab techniques to the study of healthy and diseased tissue and be able to recognize samples of each. The course is intended for the student who is particularly interested in a health-related career track or for the student who is interested in the biological sciences. This course may count as 1/2 of the 4th science credit in the recommended and DAP graduation plans. **Materials fee may be required for this course.**

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

Prerequisite: Health Science, Application Required

This course will equip students with knowledge, technical skills, and work habits required for an entry-level position in the pharmacy field or related area. They will develop an understanding of pharmaceuticals and its impact on the health care industry. Students will be given Sterile Products (IV) training prior to completion of the course and are eligible to sit for the National Sterile Products (IV). In addition, students will have the opportunity to sit for the Pharmacy Technician Certification Exam (PTCE) once they successfully complete the course and graduate. **Materials fee will be required for this course. Students must provide their own transportation to and from off-campus site.**

Practicum in Health Science-Specialized Rotation (Level 3) (CTEC) (2 credits) 12th grade

Prerequisite: Instructional Practices in Health Science, Application Required

This course is an occupationally specific course designed to give students practical application of previously studied knowledge and skills for certification or licensure in an allied health career. Students continue development of clinical skills, including earning an Electrocardiogram Technical Certification. This course prepares students for employment in hospitals or other health care settings under the supervision of registered nurses or physicians. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and

communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions. **A TB test and flu shot are 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) 11th–12th grade (CTEC) (2 credits)

Prerequisite: Introduction to Culinary Arts - Application Required

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a Texas culinary specialist certification or any other appropriate industry certification. This course offers direct hands-on experience and instruction in Back of House restaurant operations as well as catering opportunities. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. **Materials fee may be required for this course.**

Food Science (1 credit) 12th grade

Prerequisite: Biology and Chemistry

In Food Science students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Food Science is the study of the nature of foods, the causes of deterioration, the principles underlying food processing, and the improvement of foods for the consuming public. **Materials fee may be required for this course. This course may count as a science credit.**

Hospitality Services (CTEC) (1 credits) 11th–12th grade

Prerequisite: Hotel Management 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. Instruction will be delivered through training, internships, mentoring, and job shadowing throughout the local area hotels. 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. **Students may be required to occasionally provide their own transportation to their internship locations. Certification fee required for Certified Tourism Ambassador Certification.**

Practicum in Hospitality Services 12th Grade (CTEC) (2 Credits)

Prerequisite: Hospitality Services
A unique practicum experience provides opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Hospitality Services 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, including job-specific skills applicable to their training plan, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Practicum in Hospitality Services is relevant and rigorous, supports student attainment of academic and technical standards, and effectively prepares students for college and career success.

Hotel Management (CTEC) (1 credit) 10th–12th grade Prerequisite: Survey of Hospitality & 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.

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

Prerequisite: None

This course is designed to introduce students to fundamentals of nutrition, wellness as well as basic food preparation including fundamental methods and concepts in the culinary arts in which laboratory practice will parallel class work. Additional topics covered include: food safety & sanitation and principles of lifetime nutrition & wellness. Students will have the opportunity to participate in related career and technical organizations & educational study trips as well as explore career opportunities and pathways in the Hospitality & Tourism Program of Study. During this full year course, students will have the opportunity to pursue a national food safety certification (ServSafe Kitchen Manager Certification). This introductory course is eligible to be articulated for college credit for qualifying students. **Materials fee will be required for this course.**

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

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 may be required for this course.**

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

Prerequisite: Survey of Hospitality & 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.

Survey of Hospitality and Tourism 🍷 9th–12th grade (1/2 credit)

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 9th–12th grade (1/2 credit)

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

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 may count as a Technology Applications course.**

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

Prerequisite: Geometry or concurrent enrollment

This is a beginner's level approach to computer programming using the JAVA language. No previous knowledge of programming is necessary. Students will develop and apply algorithms to solve real-world problems. Programming concepts will be taught using structured programming techniques such as data types, program input/output, if statements, loops, arrays, and lists. Object-oriented programming will also be introduced. Other topics include debugging, hardware components, and social

implications of computer systems. Upon completion of this course, the student will have created software programs using computer science programming concepts. **This course may count as a Technology Applications course.**

Pre-AP Computer Science (1 credit) Entering 9th grade in 2014-15 or after

Prerequisite: Geometry or concurrent enrollment

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

Advanced Computer Science (1 credit) 11th–12th grade

Prerequisite: AP Computer Science

This course continues the study of computer programming using Java. Students must have mastered the topics in AP CS. This mastery is needed for CS3's study of classic data structures including linked lists, stacks, queues, trees, heaps, priority queues, and their application to algorithms such as quick sort and heap sort. Students will also be introduced to graph theory and extend their knowledge of recursive algorithms. Other topics may be included, such as advanced GUI techniques, multi-threaded programs, networked applications, and number theory.

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

Prerequisite: Computer Science or PAP Computer Science

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

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

Prerequisite: Computer Science or AP Computer Science (recommended)

Students acquire knowledge of object-oriented programming techniques and concepts appropriate to developing executable programs for mobile 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 will work independently and in teams on independent projects for most of the year. Objective C programming will be utilized for developing programs for mobile devices such as the iPhone, iTouch, and iPad.

Internetworking I 🖨️ 11th–12th grade CISCO I and II (CTEC) (1 credit)

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 Entry Networking Technician (CCENT). This class **cannot** be used as the state required technology credit.

Internetworking II 🖨️ 12th grade CISCO III and IV (CTEC) (1 credit)

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 CISCO Certified Network Associate (CCNA) exam. This class **cannot** be used as the state-required technology credit.

Survey of Information Technology 9th–12th grade
(1/2 credit)

Prerequisite: None

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

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

Prerequisite: Computer Science or AP Computer Science

This course is an introduction to game design concepts and computer skills needed to develop video games. Computer programming topics include game state and the game loop, level design, basic display and interaction of on-screen objects, user interface design, 2D side scrolling techniques, 2.5D programming, and an introduction to 3D programming. Students will program the C# language in the Visual Studio environment. Our primary game platform will be the PC; some students may program for other platforms. Design topics will include story, mechanics & dynamics, chance, strategy, and balance. Multiple team projects will expose students to the challenges of working in teams and develop interpersonal skills.

Web Technologies (1 credit) 10th–12th grade
Prerequisite: Business Information Management I, Digital Graphics and Animation, or Digital and Interactive Media

Through the study of web technologies and design, students learn to make informed decisions and apply the decisions to the field of information technology. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will learn the abilities to be able to use digital media to plan, design, build, and maintain effective communications. The goal of this class will be for students to gain certification from Adobe Digital Media in software such as Flash and Dreamweaver 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 may count as a Technology Applications course.**

Law, Public Safety, Corrections & Security

Emergency Communications & Dispatch 11th–12th grade
(CTEC) (1 credit)

Prerequisite: Law Enforcement or Security Services, or Correctional Services

This course 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, Security Services, or Correctional Services

Forensic Science is a course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensic science. **This course may count as a science credit.**

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 12th grade
(CTEC) (1 credit)

Prerequisite: Emergency Communications & Dispatch OR 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 10th–12th grade
(CTEC) (1/2 credit)

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.

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 may be required for this course.**

Marketing Dynamics 11th–12th grade
(CTEC & Home Campus) (3 credits)

Marketing Work-Based Learning (Level 1)

Prerequisite: Application Required

Marketing is a series of dynamic activities that focus on the customer to generate a profitable exchange. 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 may be required for this course. Students must provide their own transportation to and from off-campus site.**

Practicum in Marketing Dynamics 🏆 **12th grade**
(CTEC) (3 credits)

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 may be 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 **10th–12th grade**
(1 credit)

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.

Sports Management (2 Credits) **11th–12th grade**

Prerequisite: Sports & Entertainment Marketing; Application Required

The Sports and Entertainment Management course is an Internship Program providing second year Sports & Entertainment students serious about pursuing a career in sports and/or entertainment marketing. Work experience will consist of an unpaid internship with one or more businesses over the course of the year in the following three areas: Professional Ticket Sales, Customer Relationship Management for Sports or Entertainment, and Sports/Event Media Sales. In addition to the internship experience, class time will also provide enrichment opportunities including speakers, class instruction, and on-site visits to venues in Frisco and in the Dallas/Fort Worth area pertaining to sports and entertainment marketing. Since students in this class will be functioning directly in a sports/entertainment environment, it is important that they have excellent communication, reading and writing skills, as well as reliable transportation.

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

Prerequisite: None

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

Science, Technology, Engineering & Mathematics

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

PLTW - Aerospace Engineering **11th–12th grade**
(CTEC) (1 credit)

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 may be required for this course.**

PLTW - Civil Engineering & Architecture **10th–12th grade**
(CTEC) (1 credit)

Prerequisite: Introduction to Engineering 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 may be required for this course.**

PLTW - Digital Electronics **11th–12th grade**
(CTEC) (1 credit)

Prerequisite: Principles of Engineering

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

PLTW - Engineering Design and Development (CTEC) (1 credit) **12th grade**

Prerequisite: 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 may be 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 may be required for this course. This course may count as a Technology Applications course.**

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

Prerequisite: Introduction 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 may be required for this course.**

Dual Credit - Collin College

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

Prerequisite: None

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

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

Prerequisite: None

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

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

Prerequisite: None

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

Dual Credit Medical Terminology Online - 11th–12th grade (1/2 credit)

Prerequisite: None

Medical terminology is a course that sets the stage for a variety of healthcare programs and allows students to delve into the terminology that will define their careers in medicine. Medical terminology for practical use within medical and health-related businesses is the focus of this course. Terms range from major body systems to diagnosis and pathology. Medical word definitions, uses, and a study of root words, suffixes, prefixes and etymology will be covered. This course is recommended for anyone working in a medical office/health environment. **Students must have a strong work ethic and prepared to work independently through this online course curriculum.**