

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 courseling office at your respective high school for a list of available course offerings.

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

DISCRIMINATION DISCLAIMER

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

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

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Graduation Plans for Senior Class of 2018 and Beyond

The Foundation High School Program (FHSP) is a single graduation program. Students have the opportunity to build on the FHSP by earning Endorsements, Performance Acknowledgements, and a Distinguished Level of Achievement. Students will need to declare their preferred endorsement area, in writing, by the beginning of their 9th grade year. An endorsement is basically an opportunity for students to select a "major" during their high school career. Although students are required to select an endorsement during the 9th grade registration process, they are also allowed numerous opportunities to change their endorsement throughout their high school career. An endorsement can be earned by taking additional courses in Career and Technical Education (CTE) or by taking additional non-CTE courses specified within the endorsement requirements.

The endorsement areas are:

- Arts & Humanities
- Business & Industry
- Multidisciplinary
 - NOTE: Multi-disciplinary (non-CTE)- Requires English IV, Chemistry and/or Physics
- Public Service
- Science, Technology, Engineering & Math (STEM)

NOTE: To earn the STEM endorsement students MUST take Algebra II, Chemistry & Physics in concert with other Foundation Program + Endorsement requirements

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

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

It is important to note that the State Board of Education and the Texas Education Agency will release additional clarifications. That information will be incorporated into this guide when available. Therefore contents in this guide are subject to change according to changes from either entity and the most recent information will be posted in this document or on the FISD website.

The default program for all FISD students will be the Distinguished Level of Achievement (DLA).

More specific information about the graduation program and the endorsements may be found at http://www.friscoisd.org/departments/guidance-and-counseling/graduation-plans

Graduation Program Options

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

Foundation High School Program (25 credits)

The Foundation High School Program is not available until the end of the sophomore year. Changing to this graduation program will require parent and administrative approval in writing. Parents and students need to understand graduating on this may not meet college or university entrance requirements.

Foundation High School Program + Endorsement (s) (26 credits)

Endorsements are described in this guide including: core course requirements by endorsement, sample four-year graduation plans, and Frisco ISD course offerings by endorsement. The curriculum requirements for earning an endorsement require a student to meet and exceed the Foundation High School Program and successfully completing the following:

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

Distinguished Level of Achievement (26 credits)

This is the default graduation program for Frisco ISD students.

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

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

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

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

Graduation Plans for Senior Class of 2018 and Beyond

SUBJECT AREA	FOUNDATION HIGHS CHOOL PROGRAM (May only be selected at the conclusion of the 10 th Grade Year)	FHP + ENDORSEMENT OR DISTINGUISHED LEVEL OF ACHIEVEMENT
English	4 Credits English I English II English III English III English IV	4 Credits English I English II English III English IV
Math	3 Credits Algebra I Geometry 3 rd Credit of Math* (*If Math Models is taken, the class must be successfully completed after taking Algebra I AND prior to taking Algebra II)	 4 Credits Algebra I Geometry Algebra II (Required for Distinguished Level of Achieve ment)*** 4th Credit of Math* **If Math Models is taken, the class must be successfully completed after taking Algebra I AND prior to taking Algebra II)
Science	3 Credits Biology An additional credit must be selected from- the following courses: IPC Chemistry Physics One additional science credit may be selected from the course catalog	 4 Credits Biology An additional credit must be selected form the following courses: IPC Chemistry Physics Two additional science credits may be selected from the course catalog
Social Studies	 4 Credits World Geography World History US History Economics (.5 credit) US Government (.5 credit) 	 4 Credits World Geography World History US History Economics (.5 credit) US Government (.5 credit)
Fine Arts	1 Credit Fine Arts (see course guide for op- tions)	1 CreditFine Arts (see course guide for options)
Speech	.5 Credit Professional Communications	.5 Credit Professional Communications
Health	.5 Credit Health	.5 Credit ☐ Health

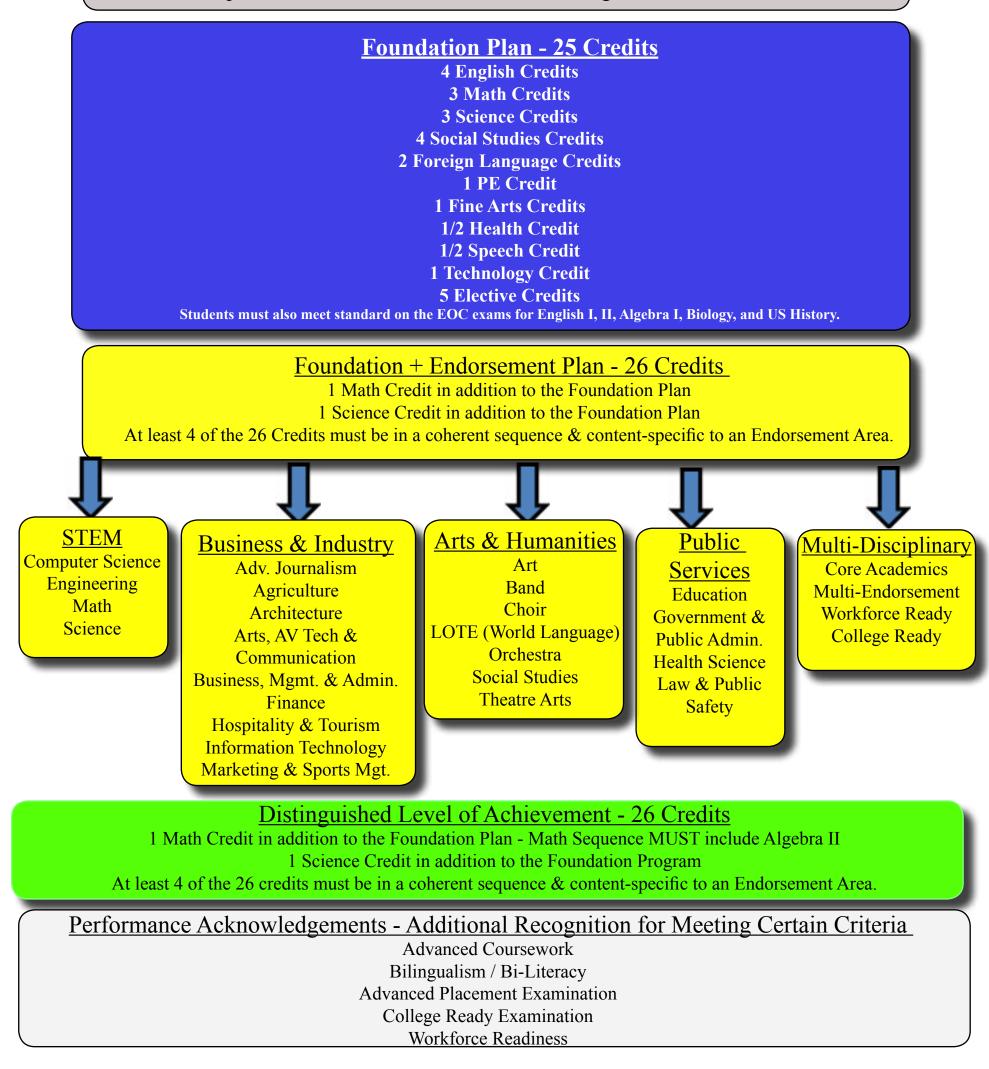
SUBJECT AREA	FOUNDATION HIGHS CHOOL PROGRAM (May only be selected at the conclusion of the 10 th Grade Year)	FHP + ENDORSEMENT OR DISTINGUISHED LEVEL OF ACHIEVEMENT
Foreign Language	 2 Credits from the same Language Spanish French Chinese American Sign Language 	 2 Credits from the same Language Spanish French Chinese American Sign Language
Physical Education	 1 Credit Physical Education (see course guide for options) 	 1 Credit Physical Education (see course guide for options)
Technology Applications	 1 Credit Technology Applications (see course guide for options) 	 1 Credit Technology Applications (see course guide for options)
Electives	5.0 credits (see course guide for options)	4.0 credits (see course guide for options)
TOTAL	25 CREDITS	26 CREDITS (4 credits must be in a coherent sequence and content specific to an endorsement area)

Multi-disciplinary (non-CTE) - Requires English IV, Chemistry **and/or Physics **STEM- Requires Algebra II, Chemistry **and** Physics



FISD Graduation Plans for Class of 2018 & Beyond

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



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

1 BA	FISD ENDORSEMENT	Ρ ΑΤΗWAYS*	2017 - 18
1st Course in Sequence	2 nd Course in Sequence	3rd Course in Sequence	4 th Course in Sequence
iculture, Food & Natural Resource -	Ag Mechanics		
Agricultural Mechanics & Metal Technologies (1)	Ag Structures Design & Fabrication (1)	CTEC – Ag Equipment Design & Fabrication (1)	CTEC – Practicum In Ag Structures & Equipment(2)
Survey of Ag, Food & Natural Res(1)		CTEC – Introduction to Welding (1)	
BUSINESS & INDUSTRY ENDORSEMEN	VT -Unless noted, this endorsement can be earned with 4 c	ENDORSEMENT -Unless noted, this endorsement can be earned with 4 credits in a coherent sequence. Please view the FISD Course Catalog for prerequisites and other specifics.	Catalog for prerequisites and other specifics.
Architecture & Construction			
CTEC – Architecture & Construction I(1)	CTEC – Architecture & Construction II (1)	CTEC - Architectural Design I(1)	CTEC –Architectural Design II (2) Internship
	Interior Design I (1)	Interior Design II (2)	
Arts, AV Technology & Communication – Audio & Video Production	& Video Production		
TV Broadcast I	TV Broadcast II	CTEC – Audio/Video Production I (2)	CTEC – Audio/Video Production II(2)
Arts, AV Technology & Communication – Graphic Design & Illustration	hic Design & Illustration		
Digital Media (1)	CTEC - Graphic Design & Illustration I (2)	CTEC – Graphic Design & Illustration II (2)	CTEC – Pract in Graphic Design & Illustration
	CTEC – Web Technologies (1)		(Z) Internship
Arts, AV Technology & Communication – Animation	ation		
3D Modeling & Animation (1) (Fine ArtsCredit)	CTEC – Animation I (2)	CTEC – Animation II (2)	CTEC – Practicum in Animation (2)
Arts, AV Technology & Communication – Fashion Design	ion Design		
Survey of Business, Marketing & Finance(1)	Fashion Design I (1)	Eashion Design II (1)	CTEC – Practicum in Marketing (3) Intemship
	Fashion Marketing (1/2)		
Business Management & Administration			
Business Information Management I (1)	CTEC – Business Information Management II(1)	Business Law (1)	CTEC – Practicum in Marketing (3) Internship
Survey of Business, Marketing & Finance(1)	Entrepreneurship (1)	Global Business (1/2)	
Financial Systems			
Survey of Business, Marketing & Finance(1)	Accounting I (1)	CTEC – Accounting II (1)	CTEC – Securities & Investments (1)
	Banking & Financial Services (1/2)	CTEC – Money Matters (1)	
	Dollars & Sense (1/2)		
Hospitality & Tourism			
Survey of Hospitality & Tourism (1)	Introduction to Culinary Arts (1)	CTEC – Culinary Arts (2)	CTEC – Advanced Culinary Arts (2) Articulated Credit
	CTEC - Hotel Management (1)	CTEC – Hospitality Services (2)	CTEC – Baking & Pastry (1) Dual Credit
	Travel & Tourism Management (1)		CTEC – Practicum in Hospitality Services (2) Internship
			Food Science (1) (science credit)
Information Technology			
Computer Maintenance (1) ArticulatedCredit	CTEC - Networking (1) Articulated Credit	CTEC - Internet Working I (CISCO 1 & 2) Articu-	CTEC – Internet Working II (CISCO 3 & 4) Dual Credit
Survey of Information Technology(1)		lated Credit	

No.	FISD ENDORSEMENT	PATHWAYS*	2017 - 18
1st Course in Sequence	2 nd Course in Sequence	3rd Course in Sequence	4 th Course in Sequence
ket			
Survey of Business, Marketing & Finance(1)	Sports & Entertainment Marketing (1/2)	Entrepreneurship (1)	CTEC – Practicum in Marketing (3).Intemship
Fashion Marketing (1/2)	CTEC - Social Media Marketing (1/2)		
Digital Media (1)	CTEC – Advertising (1/2)		
Sports & Entertainment Management			
Survey of Business, Marketing & Finance(1)	CTEC – Advertising (1/2)	CTEC – Social Media Marketing (1/2)	CTEC – Sports Management (2) Internship
Survey of Hospitality & Tourism (1)		Sports & Entertainment Marketing (1/2)	
Digital Media (1)			
Transportation, Distribution & Logistics			
Geometry	🗖 Algebra II	CTEC-Foundational Concepts of Aviation Studies (Fall) (.5) Dual Credit	CTEC-Aircraft Systems for Pilots (Fall) (.5) Dual Credit
		CTEC-Power Plant Systems for Pilots (Spring) (.5) Dual Credit	
MULTIDISCIPLINARY ENDORSEMENT -	-This is the recommended approach for this endorsement. I	-This is the recommended approach for this endorsement. Please view the FISD Course Catalog for prerequisites and other specifics.	ier specifics.
Core Courses - 16 total credits; select one credit from	COTE COURSES - 16 total credits; select one credit from each core area in each sequence box (bual Credit Courses in these areas count towards the requirements)	In these areas count towards the requirements)	Endiah 4 / AD Endiah Hanadura
Biology / PAP Biology	Chemistry / PAP Chemistry	Physics / AP Physics 1	AP Physics 2 / AP Physics C / AP Biology /
Algebra 1 / PAP Algebra 1	Geometry / PAP Geometry	Algebra 2 / PAP Algebra 2	
World Geography / AP Human Geography	World History / AP World History / GT Humanities II	US History / AP US History	Pre Calculus / AP Calculus / or other 4 th Math
			Government (1/2) & Economics (1/2) or
PUBLIC SERVICE ENDORSEMENT-Unies	l ss noted, this endorsement can be earned with 4 credits in a	PUBLIC SERVICE ENDORSEMENT-Unless noted, this endorsement can be earned with 4 credits in a coherent sequence. Please view the FISD Course Catalog for prerequisites and other specifics.	Prerequisites and other specifics.
Education & Training			
Survey of Education & Training (1)	Child Development (1)	CTEC –Education & Training (2) Internship	CTEC – Practicum in Education & Training
	Interpersonal Studies (1/2)	CTEC – Child Guidance (2) Internship	17 memsing
			CTEC – Practicum in Child Guidance(2) Internship
Government & Public Administration			[
CTEC - Survey of Gov't & Public Admin (1)	CTEC – Court Systems & Practices (1)	CTEC – Mock Trial (1)	CTEC - Practicum in Government (2) Internship
	CTEC – Political Science (1)		CTEC – Foreign Service & Diplomacy (1)
Health Science			
Medical Terminology (1)	Health Science (1)	Health Science Clinical (2) Articulated Credit/Internship	CTEC – Electrocardiography Dual Credit/Internship
	Anatomy & Physiology (1)	CTEC - Pathophysiology (1)	CTEC – Emergency Medical Technician (2) Dual Credit
		CTEC - Medical Microbiology (1)	Pharmacology (1)
		Medical Terminology (1) CC Online	
		Intro to the Healthcare System (1) CCOnline	
CTEC - Survey of Law, Public Safety, Correc- tions & Security (1)	CTEC - Law Enforcement I (1)	CTEC - Law Enforcement II (1)	CTEC – Forensic Science (1) (Science Credit)

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

*Students do NOT NEED to take EVERY course listed under each sequence, nor are these prescribed sequences for students - these are recommended sequences only. There are MANY options in each endorsement and in each pathway.

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. he default plan for FISD student is the Distinguished Level of Achievement, which requires Alg. II to be in the math sequence of the student's endorsement plan. Ę

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) Prerequisite: None

9th grade

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

Pre AP English I - (1 credit) Prerequisite: None

9th grade

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

Principles English I

9th grade

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

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) Prerequisite: None

10th grade

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

Pre AP English II - (1 credit) Prerequisite: None

10th grade

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

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

Principles English II

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

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) 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

Principles English III

effectively in real-world situations.

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

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)

Prerequisite: None

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

English IV - (1 credit) Prerequisite: None

12th grade

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.

10th grade

11th grade

11th grade

11th grade

11th grade

10th grade

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) Prerequisite: None

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

College Readiness for English Language Arts and Reading

12th grade

12th grade

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

Dual Credit English (III or IV):

ENGL 1301 Composition I – (1/2 credit) 11th –12th grade Prerequisite: English II and meet eligibility requirements

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

Dual Credit English (III or IV):

ENGL 1302 Composition II – (1/2 credit) 11th –1 Prerequisite: English II and meet eligibility requirements

11th –12th grade

12th grade

Intensive study of and practice in the strategies and techniques for developing researchbased expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions. Lab required. Prerequisite: ENGL 1301. 3 credit hours. This course fulfills ½ credit for either English III (for Juniors intending to take ENGL 2332 and ENGL 2333 in the senior year) or English IV (for seniors). It should be paired with ENGL 1302 in the second semester to grant a full credit of high school English.

Dual Credit English IV:

ENGL 2332 World Literature I – (1/2 credit) Offered starting 2018-19

Prerequisite: ENGL 1302 and meet eligibility requirements

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

Dual Credit English IV:

ENGL 2333 World Literature II – (1/2 credit) Offered starting 2018-19

Prerequisite: 2332 and meet eligibility requirements

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

English for Speakers of Other Languages 9th–12th grade ESOL I (1 credit) 9th

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 9th–12th grade ESOL II - (1 credit)

Prerequisite: Language Proficiency Placement Test, LPAC Recommendation

English for Speakers of Other Languages II (ESOL II) is designed for intermediate to advanced fluency level students transitioning between basic skills instruction in ESOL I and grade level Sheltered English. Curriculum for ESOL II incorporates intensive academic vocabulary instruction while also linking literary concepts from ENG II to adapted ESOL texts. The course 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)	9th-11th grade
(PEIMS: 03221810)	_

Independent Study in English III – (1 credit)	9th-11th grade
(PEIMS: 03221820)	

Prerequisite: LPAC recommendation

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

Independent Study in English IV

12th grade

Practical Writing – (1 credit) (PEIMS: 03221300)

Prerequisite: LPAC recommendation

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

Reading I, II, III – (1/2 or 1 credit) Prerequisite: Counselor Recommendation

9th - 12th grade

9th – 12th grade

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

Professional Communications

(Speech) – (1/2 credit) Prerequisite: None

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

Debate I-III - (1 credit) Prerequisite: Instructor Approval

9th – 12th grade

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 gradePrerequisite: 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 gradePrerequisite: Counselor Recommendation

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

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

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

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

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

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

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

Journalism I - (1 credit) Prerequisite: None

9th - 12th grade

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. <u>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.</u>

Frisco Independent School District

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Newspaper I - (1 credit) Prerequisite: Photojournalism or Journalism &

Instructor Approval

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

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

Yearbook I - (1 credit) 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 (1/2-1 credit)

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

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

Photojournalism - (1 credit) Prerequisite: None

9th - 12th grade

10th – **12**th grade

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

TV Broadcast I - (1 credit) Prerequisite: None

9th – 12th grade

TV Broadcast I is an elective and may serve as a preliminary course for students interested in serving as a member of the broadcast staff. Students in Broadcast I will learn the basics of TV production. They will learn about the history of broadcast journalism, story types, story idea development and writing in broadcast style. Students will also learn about video

10th – 12th grade

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

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

Recommendation

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

TV Broadcast III - (1 credit)

10th – 12th grade

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

Radio Broadcast I (1 Credit) Prerequisite TV Broadcast I or teacher permission.

11th – 12th grade

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

Radio Broadcast II (1 Credit)

Prerequisite TV Broadcast I or Radio Broadcast I

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

Sports Broadcasting I - (1 credit)

11th - 12th grade

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 FISD channel along with the Frisco Student Sports Network website. Students will serve as crew on FSSN sports broadcasts. This course provides hands-on learning opportunities for students and serves as a primer for progression in the sports broadcasting tract.

Sports Broadcasting II - (2 credits) **Prerequisite: Sports Broadcasting**

11th – 12th grade

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

Video Technology- (1 credit) Prerequisite: Broadcast Journalism II

10th – 12th grade

9th grade

or Teacher Recommendation

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

Mathematics Courses

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

Algebra I - (1 credit)

Prerequisite: 8th Grade Math or PAP 8th Grade Math

In Algebra I, students will build on the knowledge and skills for mathematics in Grades 6-8, which provide a foundation in linear relationships, number and operations, and proportionality. Students will study linear, quadratic, and exponential functions and

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their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology to collect and explore data and analyze statistical relationships. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables and will create new functions through transformations. This course will require an End of Course Exam 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) Prerequisite: 8th Grade Math or Pre-AP 8th Grade Math

9th grade

9th – 12th grade

9th – 12th grade

9th – 12th grade

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

Algebra II - (1 credit)

Prerequisite: Algebra I or Pre-AP Algebra I

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

Pre-AP Algebra II – (1 credit) Prerequisite: Algebra I or Pre-AP Algebra I

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

Geometry - (1 credit) Prerequisite: Algebra I or Pre-AP Algebra I

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

Pre-AP Geometry - (1 credit) Prerequisite: Algebra I or Pre-AP Algebra I

9th – 12th grade

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

Principles Geometry

Prerequisite: Committee Recommendation

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

Applied Geometry

Prerequisite: Committee Recommendation

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

Mathematical Models with Applications (MMA) - (1 credit) Prerequisite: Algebra I

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

Principles Mathematical Models with Applications (MMA)

Prerequisite: Committee Recommendation This course is based on the Mathematical Models with App

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) Prerequisite: Teacher recommendation

9th – 12th grade

11th – 12th grade

10th- 12th grade

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

Statistics - (1 credit)

Prerequisite: Algebra I

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

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

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

Pre-Calculus- (1 credit) Prerequisite: Geometry or Pre-AP Geometry and Algebra II or Pre-AP Algebra II

10th- 12th grade

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

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

Pre-AP Pre-Calculus - (1 credit) Prerequisite: Geometry or Pre-AP Geometry and

Algebra II or Pre-AP Algebra II

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

AP Calculus AB - (1 credit) Prerequisite: Pre-Calculus or Pre-AP Pre-Calculus

11th -12th grade

10th –12th grade

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. <u>AP Calculus AB is a college level course.</u>

AP Calculus BC - (1 credit) Prerequisite: Pre-AP Pre Calculus

11th -12th grade

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

AP Statistics - (1 credit) Prerequisite: Algebra II or PAP Algebra II

11th - 12th grade

11th – 12th grade

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. <u>AP Statistics is a college level course.</u>

Dual Credit College Algebra - (1/2 credit) 11th - 12th grade

Prerequisite: Algebra II and meet eligibility requirements

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

Dual Credit Plane Trigonometry (1/2 credit)

Prerequisite: Algebra II, Dual Credit College Algebra, and meet eligibility requirements

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

Dual Credit Elementary Statistical Methods 11th – 12th grade (1/2 credit)

Prerequisite: Algebra II and meet eligibility requirements

Elementary Statistical Methods is the collection, analysis, presentation and interpretation of data and probability. Analysis includes descriptive statistics, correlation and regression,

confidence intervals and hypothesis testing. Graphing calculator required. Lab required. Students are responsible for all transportation, books, fees, and tuition at the college and must pass TSI (Texas Success Initiative Assessment) to enroll. This is a dual credit course and may qualify as 1/2 of the 4th high school, math credit as well as 3 college credit hours. Students must complete Dual Credit College Algebra before taking this course.

11th - 12th grade

and Economics - (1/2 credit) Prerequisite: Algebra II and meet eligibility requirements

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

College Readiness for Mathematics Prerequisite: Counselor Recommendation

12th grade

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

Science Courses

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

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

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

Advanced Plant and Soil Science 12th grade (1 credit) (CTEC) Prerequisite: Horticultural Science or Landscape Design &

Prerequisite: Horticultural Science or Landscape Design & Management

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

Food Science (1 credit)

12th grade

12th grade

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

Forensic Science (1 credit) (CTEC) Prerequisite: Law Enforcement I, Biology & Chemistry

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

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analysis. Students will learn the history, legal aspects and career options for forensic science. This course may qualify as a science credit.

Integrated Physics and Chemistry (IPC) 9th - 10th grade (1 credit)

Prerequisite: None

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

Principles IPC

Prerequisite: Committee Recommendation

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

Applied IPC

Prerequisite: Committee Recommendation

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

Biology - (1 credit) Prerequisite: None

9th - 11th grade

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) Prerequisite: None

9th - 11th grade

12th grade

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.

Dual Credit Science: BIOL 1406 Biology for Science Majors I

- (1/2 credit)

Prerequisite: Meet eligibility requirements

Lecture: Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, and scientific reasoning are

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

Dual Credit Science:

BIOL 1407 Biology for Science Majors II – (1/2 credit)

Prerequisite: BIOL 1406 and meet eligibility requirements

Lecture: The diversity and classification of life will be studied, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. Lab: Laboratory activities will reinforce study of the diversity and classifications of life, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. Lab required to anatomy, physiology, ecology, and evolution of plants and animals. Lab required. Prerequisite: BIOL 1406. 4 credit hours. This course satisfies ½ credit toward the high school 4th year science requirement.

Dual Credit Science:

BIOL 1408 Biology for Non-Science Majors I 12th grade – (1/2 credit)

Prerequisite: Meet eligibility requirements

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

Dual Credit Science:

BIOL 1409 Biology for Non-Science Majors II 12th grade - (1/2 credit)

Prerequisite: BIOL 1408 and meet eligibility requirements

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

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

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

Principles of Chemistry 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) Prerequisite: Algebra I

12th grade

9th – 12th grade

Co-requisite: Geometry (required) / Algebra II (recommended)

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

AP Physics 1 (1 credit) Prerequisite: Geometry

9th – 12th grade

10th - 12th grade

10th – 12th grade

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. <u>Additional contact time outside the normal school day may be required. This is a college level course.</u> (Students who have completed PAP Physics are not allowed to take AP Physics 1.)

AP Physics 2 (1 credit) Prerequisite: Physics Co-requisite: Pre-Calculus

AP Physics 2 is equivalent to the second semester of a typical introductory, algebrabased college physics course. Topics of study include fluids, thermodynamics, electricity, magnetism, optics, and topics in modern physics. Emphasis is placed on studentcentered, 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. <u>Additional contact time outside the normal</u> <u>school day may be required. This is a college level course.</u>

AP Physics C (2 credits) Prerequisite: Physics and Pre-Calculus Co-requisite: AP Calculus (AB or BC)

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

Environmental Systems (1 credit) Prerequisite: Biology and IPC or Chemistry

school day may be required. This is a college level course.

11th – 12th grade

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 though 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.

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

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.

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AP Environmental Science (1 credit) Prerequisite: Biology and Algebra I Co-requisite: Chemistry

AP Environmental Science (ÁPES) 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) Prerequisite: Biology

10th - 12th grade

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

Principles of Aquatics

Prerequisite: Biology / Committee Recommendation

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

Applied Aquatics

Prerequisite: Committee Recommendation

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

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

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

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

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

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

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

Earth and Space Science - (1 credit) 11th - 12th grade Prerequisite: Three units of ience 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) Prereguisite: 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) Prerequisite: none

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

World History Studies - (1 credit) Prerequisite: None

10th grade

10th grade

9th grade

9th grade

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) Prerequisite: None

AP World History is designed to develop greater understanding of the evolution of global processes and contacts in interactions with different types of human societies. It highlights the nature of continuity and change over time and offers global coverage of Africa, the Americas, Asia and Europe. The course stresses the linkages between people and states formed through trade, the resultant migration of people and ideas, the mobilizations of mass society, revolutions, and the impact of technology upon humankind.

This college level course will be both rigorous and rewarding and is open to all high school students who are motivated and willing to do advanced work. It moves rapidly and covers a lot of ground but teaches students skills needed to critically read, take notes and write historical essays. Interested students would be eligible to take the AP examination in May to qualify to earn college credit.

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

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

10th – 12th grade

ninth and tenth grade students will sit in the same class while earning credit in separate courses; ninth graders will earn Pre-AP English I credit while tenth graders earn AP World History credit. At the conclusion of GT Humanities II, students can sit for the AP World History exam to possibly earn college credit. **GT Humanities does NOT fulfill the fine arts requirement for graduation and is not recognized as a fine arts course by TEA.**

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

Gifted/Talented and GT Humanities I

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

United States History - (1 credit)

Prerequisite: None

11th grade

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) Prerequisite: None

11th grade

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

Dual Credit US History:

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

11th grade

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

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

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

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are required to take the Texas End of Course Exam (EOC) for US History.

U.S. Government - (1/2 credit) Prerequisite: None

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

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.

AP U.S. Government - (1/2 credit) Prerequisite: None

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

Dual Credit Government:

GOVT 2305 Federal Government Prerequisite: Meet eligibility requirements

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

Dual Credit Elective:

GOVT 2306 Texas Government – (1/2 credit) Prerequisite: Meet eligibility requirements

12th grade

12th grade

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

Economics (emphasis)

(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.

Dual Credit Economics:

ECON 2302 Principles of Microeconomics

– (1/2 credit)

Prerequisite: Must meet eligibility requirements

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

AP European History - (1 credit) Prerequisite: None

11th - 12th grade

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

12th grade

12th grade

12th grade

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) **Prerequisite:** None

12th grade

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.

Personal Financial Literacy (1/2 credit) 11th - 12th grade

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

Sociology - (1/2 credit) **Prerequisite: None**

10th - 12th grade

11th -12th grade

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

Dual Credit Elective: SOCI 1301 Introduction to Sociology - (1/2 credit)

Offered starting in 2018-19 Prerequisite: Meet eligibility requirements

The scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ethnicity, and deviance. 3 credit hours. This course satisfies 1/2 elective credit toward high school graduation.

Psychology - (1/2 credit)

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)

Prerequisite: None

10th - 12th grade

10th -12th grade

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

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

Prerequisite: Meet eligibility requirements

A study of the 1) research and theory in the psychology of learning, cognition, and motivation, 2) factors that impact learning, and 3) application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g. learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned. 3 credit hours. This course satisfies 1/2 elective credit toward high school graduation. Students who have taken high school Psychology may enroll in this dual credit course.

AP Capstone Program

AP Seminar Course – (1 credit) **Prerequisite: None**

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Students will complete various assessments throughout the year to earn an Advanced Placement Exam score that may allow them to earn college credit. Students who earn scores of 3 or higher in AP Seminar and AP Research will receive the AP Seminar and Research Certificate© signifying their attainment of college-level academic and research skills. In addition, students who earn a 3 or higher in four additional AP Courses will receive the AP Capstone Diploma©. Students receive a GPA weighted credit as with all other AP courses. Note: This course cannot be dropped until semester. The Exam Fee for this course \$141. For further information please consult the College Board Website: https:// lp.collegeboard. org/ap-capstone

AP Research Course – (1 credit) 10th - 12th grade Prerequisite: Successful Completion of AP Seminar

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

Fine Arts Courses

Art

Art I - (1 credit) **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)

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 Il 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

10th - 12th grade

9th – 12th grade

10th - 12th grade

10th - 12th grade

two. Students are required to purchase a specific list of supplies costing approximately \$45-\$55. Supplies must be purchased during the first 2 weeks of school to remain in the class.

Pre-AP Art II- (1 credit)

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

10th - 12th grade

10th - 12th grade

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

Art II Ceramics - (1 credit)

Prerequisite: Art I - Pre AP Art 1

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

Art III-IV - (1 credit) Prerequisite: Art II/III

11th - 12th grade

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

AP Art History - (1 credit)

10th – 12th grade

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) Prerequisites: Pre AP Art I or Art II recommended

Advanced Placement Studio Art Design portfolios is a rigorous course designed for students who are seriously interested in the practical experience of art. This College Board Program provides the only national standard for performance in the visual arts that allows students to earn college credit and/or advanced placement while still in high school. First year AP Art Design students take AP Art 2D Design and second year AP Art Design students take AP Art- 3-D Design. BBoth portfolios require actual examples and electronic submission s 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. If possible, students should take AP Art with a regular Art III/IV class. AP students are given the opportunity to submit a portfolio exam to the College Board for college credit.

AP Studio Art 3D- Design - (1 credit) 11th - 12th grade Prerequisites: AP Studio Art 2D Design recommended)

Advanced Placement Studio Art Design portfolios are designed for students who are seriously interested in the practical experience of art. This College Board Program provides the only national standard for performance in the visual arts that allows students to earn college credit and/or advanced placement while still in high school. First year AP Art Design students take AP Art 2D Design and second year AP Art Design students take AP Art- 3-D Design. Both portfolios require actual examples and electronic submission s 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) 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.

<u>Music</u>

Band - (1 credit)

Prerequisite: Teacher recommendation Band is a rigorous, full year course concentrating on the continued development of fundamental wind and percussion skills. The rehearsal and performance schedules are demanding, including outside-of-school practices, football games, pep rallies, contests, sectionals, and concerts. Participating in fall marching band allows students to waive $^{1\!\!/_2}$ credit of the required P.E. credits. Additional expenses for supplies will be incurred. Students enrolling in any band course are required to participate in marching band. Special exceptions to this may only be considered in extenuating health related circumstances and must be discussed directly with the program director and campus principal or their designee for consideration. A balanced focus on both individual and ensemble development occurs throughout both semesters.

Instrumental Ensemble Band - (1 credit) **Prerequisite: Teacher recommendation**

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

Jazz Band - (1/2 credit)

9th – 12th grade

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

Music Theory - (1 credit) **Prerequisite:** Application

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

AP Music Theory - (1 credit)

10th - **12**th grade Prerequisite: Music Theory I and teacher recommendation

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

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

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

Orchestra - (1 credit)

9th -12th grade

Prerequisite: Teacher recommendation

Orchestra is a rigorous, full year course concentrating on the continued development of string performance skills The rehearsal and performance schedules are demanding,

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9th -12th grade

9th – 12th grade

10th –12th grade

9th – 12th grade

including outside of school practices, contests, sectionals, and concerts. Additional expenses for supplies will be incurred. A balanced focus on both individual and ensemble development occurs throughout both semesters.

Choir- (1 credit)

Prerequisite: None

9th -12th grade

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

Vocal Ensemble - (1 credit) Prerequisite: Teacher Recommendation

9th -12th grade

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

Theatre Arts

Theatre Arts I - (1 credit) Prerequisite: None

9th – 12th grade

9th - 12th grade

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) 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)

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

9th – 12th grade

10th - 12th grade

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

are the same ones who comprise a large percentage of the acting companies of the departmental productions.

Technical Theatre I - (1 credit)

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

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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 - 12thgrade

Prerequisite: Technical Theatre I and teacher recommendation

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

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

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

Theatre Production I-IV - (1 credit)10th - 12th gradePrerequisite: Theatre 1 or Technical Theatre I, AuditionA full year course for advanced theatre students that explores various production aspects

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

Dance

9th – 12th grade

10th – 12th grade

11th -12th grade

12th grade

Dance I - Fundamentals - (1 credit) Prerequisite: None

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

Dance II - Technique - (1 credit) Prerequisite: Dance I

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

Dance III - Intermediate - (1 credit)

Prerequisite: Dance II and Instructor Approval

Students in Intermediate Dance will earn fine arts credit for this yearlong course. Various disciplines of dance are explored including jazz/hip-hop, ballet/lyrical and modern/stylized dance with the focus on <u>the technical mastery and performance of intermediate</u> 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. <u>Purchase of dance attire is the responsibility of the student.</u>

Dance IV - Advanced - (1 credit)

Prerequisite: Dance III and Instructor Approval Students in Advanced Dance will earn fine arts credit and for this yearlong course. Various disciplines of dance are explored including jazz/hip-hop, ballet/lyrical and modern/stylized dance with the focus on <u>the technical mastery and performance of</u> <u>advanced skills.</u> 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.

9th - 11th grade

9th – 12th grade

9th - 12th grade

9th – 12th grade

Dance Team Training - (1 credit) **Prerequisite: None**

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

Performing Dance Team - (1 credit) 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 enrollment in this course.

Color Guard (1 credit) **Prerequisite: Audition and Teacher** Recommendation

Color Guard is a rigorous, full year course concentrating on the continued development of fundamental marching rifle and flag skills. This is a performance class where the basics of movement, dance and use of equipment are taught. The rehearsal and performance schedules are demanding, including outside-of-school practices, football games, contests, performances. Students may earn a fine arts credit and PE substitution credit for enrollment in this course. Additional expenses for uniforms and supplies will be incurred. Students enrolling in Color Guard are required to participate in conjunction with the marching band. A balanced focus on both individual and group development occurs throughout both semesters.

Languages Other Than English Courses

Spanish I - (1 credit)

Prerequisite: none

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

Spanish II - (1 credit) Prerequisite: Spanish I

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

Spanish II Pre-AP - (1 credit)

Prerequisite: Spanish I

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

Spanish III – (1 credit) Prerequisite: Spanish II

10th – 12th grade

9th - 12th grade

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

last updated 02/09/2017

Spanish III Pre-AP – (1 credit)

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

Spanish IV AP – (1 credit)

Prerequisite: Spanish III (highly recommend Spanish III Pre-AP) Spanish IV AP is designed to provide high school students with a learning experience

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

Spanish V AP – (1 credit) Prerequisite: Level IV AP

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

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

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

French I - (1 credit) Prerequisite: none

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

French II - (1 credit) Prerequisite: French I

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

French II Pre-AP - (1 credit) Prerequisite: French I

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

French III – (1 credit) Prerequisite: French II

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

10th - 12th grade

10th – 12th grade

11th – 12th grade

9th – 12th grade

9th – 12th grade

9th – 12th grade

9th – 12th grade

French III Pre-AP – (1 credit)

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

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

French IV AP – (1 credit)

10th – 12th grade

Prerequisite: French III (highly recommend French III Pre-AP)

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

Chinese I - (1 credit) Prerequisite: none

9th - 12th grade

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

Chinese II - (1 credit) Prerequisite: Chinese I

9th – 12th grade

9th – 12th grade

10th – 12th grade

9th – 12th grade

10th – 12th grade

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

Chinese III Pre-AP - (1 credit)

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

Chinese IV AP - (1 credit) Prerequisite: Chinese III

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

American Sign Language I - (1 credit) Prerequisites: none

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

American Sign Language II - (1 credit) Prerequisites: ASL I

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

American Sign Language III - (1 credit) Prerequisites: ASL II

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

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

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

Health and Physical Education Courses

Physical Education Requirements

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

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

Foundations of Personal Fitness (1/2-1 credit) **Prerequisite:** None

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

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

9th - 12th grade

9th - 12th grade

11th – 12th grade

9th - 12th grade

10th - **12**th grade

10th - **12**th grade

10th - 12th grade

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

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

Health Education - (1/2 credit) Prerequisite: None

9th – 12th grade

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) Prerequisite: None

9th - 12th grade

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) $10_{th} - 12_{th}$ gradePrerequisite: Teen Leadership I at the high school leveland application

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

Academic Decathlon - (1 credit)

9th – 12th grade

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

Student Congress - (1 Credit)

10th – 12th grade

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

Local Elective Courses

Academic Study Advancement Program9th – 11th gradeASAP (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.

Independent Study and Mentorship Program

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

Prerequisite: Application Process

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

Competitive Sports Information

FISD offers the following competitive sports:

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

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

TRANSITION COURSES

Prerequisite: Committee Recommendation

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

Occupational Preparation I - 9th - 12th grade

Prerequisite: Committee Recommendation

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

Occupational Preparation II - 10th - 12th grade

Prerequisite: Occupational Prep I / Committee Recommendation

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

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

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

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

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

Prerequisites: Vocational Adjustment Course / Committee Recommendation

Vocational Adjustment Course II is an intensive vocational experience that provides preparatory activities that lead to student's acquisition of employability and technical skills, knowledge, and behaviors based on his/her individualized post-secondary vocational goals. Students will practice self-management and responsible decision-making that reflects appropriate work-based choices. Students will demonstrate independent advocacy, interpersonal, and vocational skills. Youth is independent/interdependent at job site, maintaining appropriate time-management skills, behaviors, and communication skills. Students must secure a minimum of fifteen hours per week of competitive paid employment.

Step Beyond

Prerequisites: High School graduation credits complete / Committee Recommendation

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

SPECIAL EDUCATION

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

Career and Technical Education

Mission & Purpose of Career and Technical Education

The mission of Career and Technical Education is to prepare students to succeed in high demand occupations within the 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 coursework with the exception of the courses designated as (CTEC) which are taught at the Frisco ISD CTE Center.

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

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

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

The Frisco ISD CTE Career Programs of Study are available at: http://schools.friscoisd.org/spc/cte or by contacting the Frisco ISD CTE Center at 469-633-6780.

CTE Courses and Dual and Articulated College Credit

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



CTE Courses and Technology Credit

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

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

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

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

CTE Courses and Fine Arts Credit

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

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

CTE Courses and Math Credit

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

AP Computer Science

CTE Courses and Health Credit

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

Health Science Technology

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

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2017 - 18

			2017 - 18
1st Course in Sequence	2 nd Course in Sequence	3rd Course in Sequence	4th Course in Sequence
ARTS & HUMANITIES ENDORSEMENT -Unless noted, this endorsement can be	-Unless noted, this endorsement can be earned with 4 credi	earned with 4 credits in a coherent sequence. Please view the FISD Course Catalog for prerequisites and other specifics	log for prerequisites and other specifics.
Fine Arts - Art			
D Art 1	🗖 Art 2	D Art 3	D Art 4
PAP Art 1 (Class of 2018 & Beyond)	AP Art – Drawing	AP Att – 2D or 3D	🗖 AP Art – 3D
3D Modeling & Animation - Fine Arts Credit	Art 2 – Ceramics	AP Art – Drawing	AP Art History
Fine Arts - Dance			
Dance 1	Dance 2	Dance 3	Dance 4
Language			
D Spanish 1	Spanish 2 or PAP Spanish 2	Spanish 3 or PAP Spanish 3	AP Spanish 4
C French 1	French 2 or PAP French 2	French 3 or PAP French 3	AP French 4
Chinese 1	Chinese 2	PAP Chinese 3	Chinese 4
D ASL 1	ASL 2		
Fine Arts - Music			
Band 1	Band 2	D Band 3	Band 4
Orchestra 1	Orchestra 2	Orchestra 3	Orchestra 4
Choir 1	Choir 2	Choir 3	Choir 4
Social Studies – Students must earn 5 total credits in Social Studies	Social Studies		
Uorid Geography	Uvorld History OR AP World History	US History or AP US History	US Government (1/2) or AP US Government (1/2)
AP Human Geography	GT Humanities II / AP World History	Psychology (1/2) or AP Psychology (1/2) or Sociology (1/2)	Economics (1/2) or AP Economics (1/2)
	AP Seminar	AP European History	Dual Credit US. Govt. (1/2) & Dual Credit Economics (1/2)
		AP Seminar	AP Seminar
Fine Arts - Theatre			
Theatre Arts 1	Theatre Arts 2 / Theatre Production 1	Theatre Arts 3 / Theatre Production 2	Theatre Arts 4 / Theatre Production 3
Tech Theater 1	Tech Theater 2	Tech Theater 3	Tech Theater 4
BUSINESS & INDUSTRY ENDORSEMEN	${\sf VT}$ -Unless noted, this endorsement can be earned with 4 c	BUSINESS & INDUSTRY ENDORSEMENT -Unless noted, this endorsement can be earned with 4 credits in a coherent sequence. Please view the FISD Course Catalog for prerequisites and other specifics.	Catalog for prerequisites and other specifics.
Advanced Journalism			
Journalism or Photojournalism	Vearbook 1	Vearbook 2	Yearbook 3
Broadcast 1	Broadcast 2	Broadcast 3	Video Technology
Debate 1	Debate 2	Debate 3	Adv Public Speaking
1	Animal Science OR Veterinary Assistant		
Survey of Agriculture, Food & Natural Res (1)	Equine Science (1/2)	CTEC – Veterinary Medical Applications (1)	CTEC – Adv Animal Science (1) (Science Credit)
Wildlife, Fisheries, & Eco Mgmt (1)	Small Animal Management (1/2)		CTEC - Practicum in Vet Med Apps (2) Internship
	Livestock Production (1)		
Agriculture, Food & Natural Resource - Floral	Floral Design OR Horticulture & Landscape Design		
Survey of Agriculture, Food & Natural Res (1)	Floral Design (1) (Fine Arts Credit)	CTEC – Floral Design (1)	CTEC – Adv Plant & Soil Science (1) (Science Credit)
	CTEC – Horticulture Science (1)	CTEC – Greenhouse Operation & Production (1)	
	CTEC – Landscape Design and Mgt (1/2)		
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2017 - 18

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1st Course in Sequence	2 nd Course in Sequence	3rd Course in Sequence	4 th Course in Sequence
iculture, Food & Natural Resource -	Ag Mechanics		
Agricultural Mechanics & Metal Technologies (1)	Ag Structures Design & Fabrication(1)	CTEC – Ag Equipment Design & Fabrication (1)	CTEC – Practicum In Ag Structures & Equipment(2)
Survey of Ag, Food & Natural Res (1)		CTEC - Introduction to Welding(1)	
BUSINESS & INDUSTRY ENDORSEMEN	ENDORSEMENT -Unless noted, this endorsement can be earned with 4 credits in a coherent sequence. Please view the FISD Course Catalog for prerequisites and other specifics.	redits in a coherent sequence. Please view the FISD Course (Catalog for prerequisites and other specifics.
hitecture & Construction			
CTEC – Architecture & Construction I (1)	CTEC – Architecture & Construction II (1)	CTEC - Architectural Design I (1)	CTEC – Architectural Design II (2) Internship
	Interior Design I (1)	Interior Design II (2)	
Arts, AV Technology & Communication – Audio & Video Production	o & Video Production		
TV Broadcast I	TV Broadcast II	CTEC - Audio/Video Production I(2)	CTEC – Audio/Video Production II (2)
Arts, AV Technology & Communication – Graphic Design & Illustration	hic Design & Illustration		
Digital Media (1)	CTEC - Graphic Design & Illustration I(2)	CTEC – Graphic Design & Illustration II (2)	CTEC – Pract in Graphic Design & Illustration
	CTEC – Web Technologies (1)		(2) Internship
Arts, AV Technology & Communication – Animation	ation		
3D Modeling & Animation (1) (Fine Arts Credit)	CTEC – Animation I (2)	CTEC – Animation II (2)	CTEC – Practicum in Animation (2)
Arts, AV Technology & Communication – Fashion Design	ion Design		
Survey of Business, Marketing & Finance(1)	Fashion Design I(1)	Eashion Design II (1)	CTEC – Practicum in Marketing (3) Internship
	Fashion Marketing (1/2)		
Business Management & Administration			
Business Information Management I(1)	CTEC – Business Information Management II(1)	Business Law (1)	CTEC – Practicum in Marketing (3). Internship
Survey of Business, Marketing & Finance(1)	Entrepreneurship (1)	Global Business (1/2)	
Financial Systems			
Survey of Business, Marketing & Finance(1)	Accounting I (1)	CTEC – Accounting II (1)	CTEC – Securities & Investments (1)
	Banking & Financial Services (1/2)	CTEC – Money Matters (1)	
	Dollars & Sense (1/2)		
Hospitality & Tourism			
Survey of Hospitality & Tourism(1)	Introduction to Culinary Arts (1)	CTEC – Culinary Arts (2)	CTEC – Advanced Culinary Arts (2) Articulated Credit
	CTEC - Hotel Management (1)	CTEC – Hospitality Services (2)	CTEC – Baking & Pastry (1) Dual Credit
	Travel & Tourism Management(1)		CTEC – Practicum in Hospitality Services (2) Internship
			Food Science (1) (science credit)
Information Technology			
Computer Maintenance (1) Articulated Credit	CTEC - Networking (1) Articulated Credit	CTEC – Internet Working I (CISCO 1 & 2) Articu-	CTEC – Internet Working II (CISCO 3 & 4) Dual Credit
Survey of Information Technology (1)		lated Credit	

1 A	FISD ENDORSEMENT	РАТНѠАҮЅ∗	2017 - 18
1st Course in Sequence	2 nd Course in Sequence	3rd Course in Sequence	4th Course in Sequence
Marketing, Sales, & Service			
Survey of Business, Marketing & Finance(1)	Sports & Entertainment Marketing(1/2)	Entrepreneurship (1)	CTEC – Practicum in Marketing (3) Internship
Fashion Marketing (1/2)	CTEC - Social Media Marketing (1/2)		
Digital Media (1)	CTEC – Advertising (1/2)		
Sports & Entertainment Management			
Survey of Business, Marketing & Finance(1)	🔲 CTEC – Advertising (1/2)	CTEC – Social Media Marketing (1/2)	CTEC – Sports Management (2) Internship
Survey of Hospitality & Tourism (1)		Sports & Entertainment Marketing (1/2)	
Digital Media (1)			
Transportation, Distribution & Logistics			
Geometry	🔲 Algebra II	CTEC-Foundational Concepts of Aviation Studies (Fall) (.5) Dual Credit	CTEC-Aircraft Systems for Pilots (Fall) (.5) Dual Credit
		CTEC-Power Plant Systems for Pilots (Spring) (.5) Dual Credit	
MULTIDISCIPLINARY ENDORSEMENT -	-This is the recommended approach for this endorsement. F	-This is the recommended approach for this endorsement. Please view the FISD Course Catalog for prerequisites and other specifics.	er specifics.
Core Courses – 16 total credits; select one credit from	Core Courses – 16 total credits; select one credit from each core area in each sequence box (Dual Credit Courses in these areas count towards the requirements)	n these areas count towards the requirements)	
🗖 English 1 / PAP English 1 / GT Humanities I	🗖 English 2 / PAP English 2	English 3 / AP English Language	English 4 / AP English Literature
Biology / PAP Biology	Chemistry / PAP Chemistry	Physics / AP Physics 1	AP Physics 2 / AP Physics C / AP Biology /
Agebra 1 / PAP Algebra 1	Geometry / PAP Geometry	Algebra 2 / PAP Algebra 2	AP Chemistry / or other 4 th Science
World Geography / AP Human Geography	World History / AP World History / GT Humanities II	US History / AP US History	Pre Calculus / AP Calculus / or other 4 th Math
			Government (1/2) & Economics (1/2) or
			AP Government (1/2) & AP Economics (1/2)
PUBLIC SERVICE ENDORSEMENT-UNIESS	s noted, this endorsement can be earned with 4 credits in a c	PUBLIC SERVICE ENDORSEMENT-Unless noted, this endorsement can be earned with 4 credits in a coherent sequence. Please view the FISD Course Catalog for prerequisites and other specifics.	prerequisites and other specifics.
Education & Training			
Survey of Education & Training (1)			C EC - Practicum in Education & Iraining (2) Internship
	Interpersonal Studies (1/2)	CTEC – Child Guidance (2) Internship	-
			CTEC – Practicum in Child Guidance(2) Internship
CIEC - SUIVEY OF GOVT & FUDIC ADMIN (1)			
	CTEC – Political Science (1)		CTEC – Foreign Service & Diplomacy (1)
Health Science			
Medical Terminology (1)	Health Science (1)	Health Science Clinical (2) Articulated Credit/Internship	CTEC – Electrocardiography Dual Credit/Internship
	Anatomy & Physiology (1)	CTEC - Pathophysiology (1)	CTEC – Emergency Medical Technician (2) Dual Credit
		CTEC - Medical Microbiology (1)	Pharmacology (1)
		Medical Terminology (1) CC Online	
		Intro to the Healthcare System (1) CCOnline	
Law, Public Safety, Corrections, & Security			
CTEC - Survey of Law, Public Safety, Correc- tions & Security (1)	CTEC - Law Enforcement I (1)	CTEC - Law Enforcement II (1)	CTEC – Forensic Science (1) (ScienceCredit)

2017 - 18

	Zna Course in Sequence	3rd Course in Sequence	4 th Course in Sequence
STEM END() How here here here here	less noted, this endorsement can be earned with 4 credits in a coherent sequence. Please view the FISD Course Catalog for prerequisites and other specifics.	ce. Please view the FISD Course Catalog for prerequisites a	and other specifics.
Computer Science – In addition to Algebra 2, Chemistry, & Physics	itry, & Physics		
Computer Science (1)	AP Computer Science (1)	CTEC - Video Game Design (1)	CTEC – Mobile Application Programming
PAP Computer Science (1)		Advanced Computer Science (1)	(Ţ)
Math – 5 Total Math Credits (Completion of TWO addition	Math - 5 Total Math Credits (Completion of TWO additional math courses AFTER completion of Algebra2) - In addition to Chemistry & Physics	to Chemistry & Physics	
PAP Algebra 1 / Algebra 1	🔲 Algebra 2 / PAP Algebra 2	Advanced Quantitative Reasoning	AP Statistics
Geometry / PAP Geometry	AP Computer Science (1)	Pre-Calculus / PAP Pre-Calculus	Bus. Calculus (1/2) / College Algebra (1/2)– Dual Credit
			AP Calculus AB
			AP Calculus BC
Science - 5 Total Science Credits (Completion of TWO a	Science - 5 Total Science Credits (Completion of TWO additional science courses AFTER completion of Physics) - In addition to Algebra 2	n addition to Algebra 2	
Biology / PAP Biology	Chemistry / PAP Chemistry	Environmental Systems	AP Physics B
	Anatomy & Physiology	AP Environmental Science	AP Physics C
	Physics / AP Physics 1	AP Biology	CTEC - Medical Microbiology (1)
		AP Chemistry	CTEC - Pathophysiology (1)
		Earth & Space Science	Forensic Science (checkpre-requisites)
			Advanced Animal Science (check pre-requisites)
			Food Science (check pre-requisites)
STEM ENDORSEMENT -Unless noted, this enc	STEM ENDORSEMENT -Unless noted, this endorsement can be earned with 4 credits in a coherent sequence. Please view the FISD Course Catalog for prerequisites and other specifics.	ce. Please view the FISD Course Catalog for prerequisites a	and other specifics.
Science, Technology, Engineering & Mathematics	lics		
CTEC – PLTW - Introduction to Engineering Design(1)	CTEC – PLTW - Principles of Engineering Design(1)	CTEC – PLTW - Digital Electronics (1)	CTEC – PLTW - Engineering Design &
	CTEC BLTW Civil Encircocting 8 Architecture (1)	CTEC _ DI TIM - Aarosnana Envineering (1)	Development (1)

*Students do NOT NEED to take EVERY course listed under each sequence, nor are these prescribed sequences for students - these are recommended sequences only. There are MANY options in each endorsement and in each pathway.

Please consult your counselor, the FISD Course Catalog, the FISD Academic Guide, or the CTE Center Counseling Department for additional information on other possible endorse-ment or pathway course selections. default plan for FISD student is the Distinguished Level of Achievement, which requires Alg. Il to be in the math sequence of the student's endorsement plan. The

Agriculture, Food & Natural Sciences

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

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

Advanced Plant and Soil Science12th grade(1 credit) (CTEC)Prerequisite: Horticultural Science or Landscape Design &

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

Advanced Floral Design (1 credit) (CTEC) 11th - 12th grade Prerequisite: Floral Design

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources cluster. The practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. To be prepared for careers in agriculture, food, and natural resources, students must acquire technical knowledge 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.

Agricultural Equipment Design

11th - 12th grade

& Fabrication (1 credit) (CTEC) Prerequisite: Agricultural Facilities Design & Fabrication, Agricultural Power Systems, or Agricultural Structures Design

Agricultural Power Systems, or Agricultural Structures Design and Fabrication

This Career and Technical course will give the student hands on opportunities to repair and maintain internal combustion engines, electrical, and hydraulic systems. Scientific, mathematical, economic, and technical principles are reinforced in this course, as are communication and critical thinking skills. Supervised agricultural experience SAE programs and FFA leadership activities are integral components of the course and provide many opportunities for practical application of instructional competencies. Materials fee may be required for this course.

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

Prerequisite: None

To be prepared for careers in agricultural power, structural, and technical systems, students need to attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques. This class does not involve automotive. Materials fee may be required for this course.

Agricultural Structures Design & Fabrication 10th - 12th grade (Ag Facilities Design & Fabrication) (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. Materials fee may be required for this course.

Equine Science (1/2 credit) Prerequisite: None

10th - 12th grade

This course is designed to introduce students to the many aspects of the horse industry. Students will learn the basics of horse care, breed standards, equine nutrition, accepted management practices, reproduction, equestrian events, and common training theories and techniques. Students will further develop their knowledge of careers in the equestrian field. Students will have the opportunity to improve their leadership skills through the FFA organization. Equine Science will count toward fulfilling perquisites set for Veterinary Medical Applications.

Floral Design (1 credit) Prerequisite: None

10th - 12th grade

10th - 12th grade

This is an activity-based course structured to prepare students in the production of specialized floral designs, identify and classify plants and flowers, and use artistic elements of design to create personal floral arrangements. Students will develop knowledge and skills that enable them to understand the business practices used in the floral design industry as well as providing the opportunity for students to expand their leadership skills in the FFA organization. A materials fee is required for this course and successful completion of both semesters of this course may fulfill the fine arts credit required for graduation. This course provides the necessary training and instruction for students to participate in testing for the Texas State Florist's Certification. Materials fee may be required for this course. This course may count as a Fine Arts credit.

Greenhouse Operation & Production 11th - 12th grade (1 credit) (CTEC)

Prerequisite: Horticultural Science or Landscape Design & Management

This class exposes students to practical application of growing plants in a controlled space for profit. We will learn industry standards and expectations of nursery and greenhouse growers. This course will prepare students to be successful in the horticulture, landscape, and nursery career fields, plant identification, growth, harvest and care, as well as greenhouse maintenance and manipulation will be the main focus of our curriculum.

Horticultural Science (1 credit) (CTEC) Prerequisite: None

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

Introduction to Welding (1 Credit) (CTEC) 11th - 12th grade Prerequisite: Agricultural Facilities Design & Fabrication, Agricultural Power Systems, or Agricultural Structures Design and Fabrication

This Career and Technical course is for students interested in welding as a career. Training for employment with entry-level skills in welding trades will be emphasized. Oxy-fuel welding and cutting, plasma arc cutting, shielded metal arc welding, gas metal arc welding, flux cored arc welding, and gas tungsten arc welding will be covered. Hand and power tools, welding on various types of metals, reading blueprint welding symbols, metal characteristics, and equipment setup are other areas that students master. Safety, leadership, entrepreneurship, and career opportunities are included. Materials fee may be required for this course.

Landscape Design & Management (1/2 credit) (CTEC) Prerequisite: None

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

Livestock Production (1 credit) Prerequisite: None

10th - 12th grade

10th - **12**th grade

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

Practicum in Agricultural Structures

& Equipment (2 credits) (CTEC) Prerequisite: Agricultural Facilities Design and Fabrication, Agricultural Power Systems, Agricultural Equipment Design & Fabrication or Introduction to Welding

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources cluster. The practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. To be prepared for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. Students should apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources. To prepare for success, students are afforded opportunities to reinforce, apply, and transfer their knowledge and skills related to mathematics in a variety of contexts. Materials fee may be required for this course.

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

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 Veterinary field, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics and science. After completion of this course, students will be able to take the Texas Veterinary Medical Association level 1 Certified Veterinarian Assistant test and become certified. Students must provide their own transportation to and from off-campus site.

Small Animal Management (1/2 credit) **Prerequisite:** None

10th –12th grade

9th -10th grade

12th grade

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

Survey of Agriculture, Food, and Natural Resources (1 credit) **Prerequisite:** None

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

Veterinary Medical Applications (1 credit) (CTEC)

11th –12th grade

Prerequisite: 2 of 3 courses-Equine Science, Livestock Production, or Small Animal Management (2018-2019 Prerequisite: Survey of Agriculture, Food, and Natural Resources AND 1 credit from Equine Science, Livestock Production or Small Animal Management)

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

Wildlife, Fisheries, & Ecology Management 9th –10th grade (1 credit)

Prerequisite: None

This course examines the management of game and nongame wildlife species, fish, aquatic crops and their ecological principles as related to current agricultural practices. During the length of this course, students will examine the importance of wildlife and outdoor recreation while highlighting the use of scientific knowledge to study wildlife and

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natural resources. Also included in the course are sections covering boater education, angler education, and hunter education. Students are provided the opportunity to develop leadership skills through the FFA organization in events targeted to the interests of wildlife students. This course provides instruction and training necessary for the Texas Hunter Education and Boater Education Certifications.

Architecture & Construction

Architecture and Construction I (Survey of Architecture & Construction) (1 credit) (CTEC) **Prerequisite:** None

Architecture and Construction I provides an overview to the various career opportunities in the Building Industry. Students will gain foundational knowledge and skills to move on to Architecture and Construction II. Both digital and traditional forms of technical and non-technical drawing are taught in conjunction with basic design principles. Students will also learn about construction material and methods and how to apply this knowledge in drafting. Architecture and Construction I introduces the students to basic principles of geometry and physics as applied to building construction. Students will be expected to utilize both creative "left-brained" thinking and analytical "right-brained" thinking for creative problem solving projects in this course. This course may qualify as a technology applications credit.

Architecture and Construction II (1 credit) (CTEC) Prerequisite: Architecture and Construction I or Survey of Architecture & Construction

In Architecture and Construction II, students gain knowledge and skills that will help them on their way to a post-secondary education or career in Architecture and Construction. Students will learn how to develop preliminary concepts into finalized designs through traditional and digital mediums. Architectural design introduces students to state and local building codes, foundational design criteria, and construction techniques for the purpose of both residential and small commercial design while also introducing more theoretical elements such as Architectural history and basic design theory.

Architectural Design I (1 credit) (CTEC) 11th –12th grade Prerequisite: Architecture and Construction II or Architectural Design

In Architectural Design I, students are exposed to more complex building systems, construction techniques, and technologies. Students undergo daily peer reviews and are critiqued by building industry professionals at the end of each project promoting a collegiate level environment. The course also introduces advanced three dimensional modeling and construction detailing where more responsibility is placed on the student to undergo independentresearch. Higherleveldesign theory is introduced as a vehicle for all student work.

Architectural Design II (2 credits) (CTEC) 12th grade Prerequisite: Architectural Design I or Advanced Architectural Design

Architectural Design II is the culmination of the students' prior three years of Architectural learning. Students are given the freedom to conceptualize, research, and design projects of their choosing while also creating weekly goals and deadlines for themselves. Aside from their final projects, students are introduced to the professional environment through internships at Architecture firms, guest speakers, interview techniques, college applications, ethics discussions, and portfolio design. Students are expected to provide transportation for themselves to and from internship sites.

Interior Design I (1 credit) **Prerequisite:** None

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

Interior Design II (2 credits) Prerequisite: Interior Design I

11th –12th grade

9th –12th grade

InteriorDesignIlisatechnicallaboratorycoursethatincludestheknowledgeoftheemployability characteristics, principles, processes, technologies, communication, tools, equipment, and materials related to interior spatial design. Materials fee may be required for this course.

Arts. A/V Technology & Communication

3D Modeling and Animation (Digital Graphics and Animation) (1 credit) **Prerequisite: None**

In this first level course, students will explore the basic principles, concepts and methodologies of 2D and 3D animation. Students will create an original character for use with various projects including, but not limited to, drawings, a clay model, digital

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10th –12th grade

9th –12th grade

10th – 12th grade

art, and many more. This character concept will be incorporated into their projects using the various software applications such as Adobe Photoshop, Autodesk Maya and more. Students will be expected to draw and will learn new drawing techniques. Materials fee may be required for this course. This course may qualify as a fine arts credit. **This course may qualify as a technology applications credit.**

Animation I (Animation) (2 credits) (CTEC) 10th –12th grade Prerequisite: 3D Modeling and Animation, Digital Graphics & Animation, Art Recommended

Animation is a continuation of the material learned in the 3D Modeling and Animation coursework and focuses on Maya, a 3D industry standard advanced software. Students taking this course should have a desire to learn storyboarding, 3D modeling, camera layout, and animation. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the history and techniques of the animation industry. **Materials fee may be required for this course**.

Animation II (Advanced Animation 3D) 1 (2 credits) (CTEC)

11th –12th grade

Prerequisite: Animation I

Students will utilize skills learned in the prerequisite Animation course to further their knowledge in three dimensional animation techniques. The focus will be on creating several animation shorts over the course of a year. Students will enhance their skills in storyboarding, animating, sketching, digital painting, modeling and rigging to add to their portfolio. Software will include Adobe Flash, Adobe Photoshop, Final Cut Pro, and Autodesk Maya. **Materials fee may be required for this course.**

Audio/Video Production I (2 credits) (CTEC)

11th –12th grade

Prerequisite: Broadcast Journalism II

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

Audio/Video Production II (2 credits) (CTEC)

12th grade

Prerequisite: Audio/Video Production I

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

Digital Media (Digital & Interactive Media) (1 credit)

Prerequisite: None

Digital Media is a course designed to educate students on the emerging digital world as well as provide hands on experience with industry standard software. The knowledge and skills acquired will enable students to successfully design digital graphics, create basic 2D animations, introductory video and audio projects plus integrate it all together into a digital web portfolio. There is a concentration in printed graphic design as this course serves as prerequisite for Graphic Design and Illustration I. Students are expected to employ planning and time management skills to complete projects. **This course may qualify as a technology applications credit.**

Fashion Design I (1 credit) Prerequisite: None

10th – 12th grade

9th –12th grade

This course will address careers in fashion that span all aspects of the textile and apparel industries. Within this context, in addition to developing technical knowledge and skills needed for success, the course prepares individuals to understand the psychological aspects of clothing and textiles, and introduces the student to: basic clothing construction techniques, clothing care and maintenance, design principles, textile information, and clothing consumerism. Additionally, the students will be

Frisco Independent School District

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expected to develop an understanding of fashion and the textile and apparel industries. Supplies and/or materials fee may be required for this course.

Fashion Design II (1 credits) Prerequisite: Fashion Design I

11th –12th grade

Careers in fashion span all aspects of the textile and apparel industries. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an advanced understanding of fashion, with emphasis on design and production. **Supplies and/or materials fee required for this course.**

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

Prerequisite: Digital Media, Digital and 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. Adobe Illustrator is introduced in this course. **Materials fee may be required for this course**.

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

Prerequisite: Graphic Design & Illustration I

The course expands on Graphic Design & Illustration including advanced skills in image editing and vector graphic software focusing on original creation and design of computer graphics for use as ornamentation, illustration, and advertising. Students are expected to interpret, evaluate and justify design decisions. Instruction is project-based and students will develop advanced technical skills needed for success in visual communication industries. **Student designs must show original and inventive ideas while utilizing industry and market trends.** Software focus continues in Adobe Photoshop with more focus using Adobe Illustrator. **Materials fee may be required for this course.**

Practicum in Animation

(Advanced Animation 2D) (2 credits) (CTEC) Prerequisite: Animation II, Advanced Animation 2D

or Advanced Animation 3D

Students will utilize skills learned in the prerequisite Animation 2 course to further their knowledge in two and three dimensional animation techniques. This advanced level course focuses heavily on sketching and will delve deeper into pre-visualization artwork needed for creating characters, backgrounds, layouts and storyboards as well as creating animated shorts. In addition students will be working with the video game department to create a capstone project that will utilize three dimensional animations in a video game engine. Software will include Adobe Flash, Adobe Photoshop, and Final Cut Pro. Materials fee may be required for this course.

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

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

This is the final course in the Graphic Design & Illustration pathway. Students will be expected to demonstrate & deliver a technical understanding of the graphic design industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities (field site). Additional focus will be placed on professional communication strategies and ethical decision making in regards to graphic design careers. Software focus is the Adobe Creative Design Suite – Photoshop, Illustrator and InDesign. Materials fee may be required for this course. Students must provide their own transportation to and from the off-campus field site. Fingerprint and/or background check may be required based on field site.

Web Technologies (1 credit) Prerequisite: Digital Media, (DIM), or 3D Modeling & Animation (DGA)

10th –12th grade

12th grade

Through the study of web technologies and design, students learn to make informed decisions regarding emerging technology and apply those decisions to the field of information technology. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will acquire the abilities to be able to use digital media to plan, design, build, and maintain effective online communications. This course is project based and students must be selfmotivated and willing to put in the time and effort necessary to complete projects.

Business Information Management I (1 credit) 9th –12th grade **Prerequisite:** None

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

Business Information Management II (1 credit) (CTEC)

Prerequisite: Business Information Management I

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

Business Law (1 credit)

10th –12th grade

10th –12th grade

Prerequisite: None

Students analyze the social responsibility of business and industry regarding issues relating to the legal environment, business ethics, torts, contracts, negotiable financial instruments, personal property, sales, warranties, business organizations, concept of agency and employment, and real property. Students apply technical skills to address the

Global Business (1/2 credit)

to make appropriate business decisions.

Prerequisite: None

11th –12th grade

Students apply technical skills to address global business in applications of emerging technologies. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment.

legal, managerial, marketing, financial, ethical, and international dimensions of business

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

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) **Prerequisite:** None

9th –12th grade

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

Child Development (1 credit)

Prerequisite: None

10th –12th grade

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

11th -12th grade Child Guidance (2 credits) (CTEC) Prerequisite: Child Development, Application Required

This laboratory course addresses the knowledge and skills related to early childhood growth and guidance equipping students to develop positive relationships with children and effective caregiver skills. Students use these skills to promote the well-being and healthy development of children, strengthen a culturally diverse society, and pursue careers related to the care, guidance, and education of children, including those with special needs. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular

organizations. Supply list and fees required. A TB test is required, and fingerprint and/or background checks may be required.

Education and Training

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

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

Interpersonal Studies (Individual and Family Life) (1/2 credit) **Prerequisite: None**

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

Practicum in Child Guidance (2 credits) (CTEC) 12th grade Prerequisite: Child Guidance, 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, information technology, ethical and legal responsibilities, leadership, teamwork, and entrepreneurship. Instruction is delivered through school-based laboratory training and is a non-paid, hands-on, work-based learning course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. Supply list and fees required. A TB test is required, and fingerprint and/or background checks may be required.

Practicum in Education and Training 12th grade (Advanced Practicum in Educational Practice) (2 credits) (CTEC)

Prerequisite: Education and Training, Practicum in Educational Practice, Application Required

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

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

Do you want to make a difference? What does it take to be an effective and dynamic educator in an ever-changing society? This course will explore opportunities in the educational clusters and provide students with experiences to develop skills needed to be successful within the teaching profession. These experiences would include but are not limited to creating and presenting engaging lesson plans, strategies for classroom management, and provide tools for a teacher to meet the name and need for every student.

Finance

Accounting I (1 credit) 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

10th -12th

9th –12th grade

information. Students formulate and interpret financial information for use in management decision making. Materials fee may be required for this course.

Accounting II (1 credit) (CTEC) Prerequisite: Accounting I

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

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

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

Dollars and Sense (1/2 credit) **Prerequisite:** None

10th -12th grade

11th –12th grade

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 (1 credit)

11th –12th grade

12th grade

Dollars and Sense or Accounting I Students will investigate money management from a personal financial perspective.

Prerequisite: Banking and Financial Services,

Students apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to establish short-term and long-term financial goals. Students will examine various methods of achieving short-term and long-term financial goals through several means such as investing, tax planning, asset allocation, risk management, retirement planning, and estate planning. Students will gain insight of professional employability skills that are required by business and industry. By examining financial forecast students will demonstrate foundational knowledge that will require decision-making in their personal finances. Materials fee may be required for this course.

Securities and Investments (1 credit) (CTEC) **Prerequisite: Money Matters**

Students will understand the laws and regulations to manage business operations and transactions in the securities and investments industries. Students will discuss strategies for selecting investments and understand factors that must be considered when investing. Students will explore exams and certifications required to sell securities and other financial products as well as demonstrate an understanding of proper business etiquette. Materials fee may be required for this course.

Government & Public Administration

Court Systems and Practices (1 credit) (CTEC) Prerequisite: Survey of Government and

Public Administration or Law I & Law II

Court Systems and Practices is an overview of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on constitutional laws for criminal procedures such as search and seizure, stop and frisk, and interrogation.

Foreign Service and Diplomacy (1 credit) (CTEC)

Prerequisite: Political Science or Mock Trial

Foreign Service and Diplomacy provides the opportunity for students to investigate how the United States works with or against foreign powers. The course includes law, history, America's relationships with other countries, diplomacy as a career, and international relations associated with the diplomatic environment.

Mock Trial (CTEC) (1 credit)

11th –12th grade

11th – 12th grade

10th –12th grade

Prerequisite: Political Science or Court Systems and Practices This course is designed to foster a better understanding of the civil and criminal trial process through simulation and the study of actual as well as fictitious crimes. Students will simulate every level or trial from opening/closing arguments, direct questioning, jury participation and sentencing. Repeat enrollment not permitted. Students are required to remain in the course for the full year due to course operations. Lab fee required.

Frisco Independent School District

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Political Science (1 credit) (CTEC) Prerequisite: Survey of Government and Public Administration or Law I & Law II

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 Government (2 credits) (CTEC) 12th grade Prerequisite: Mock Trial, Application Required Seniors during 2018-19 school year-Prerequisite: **Political Science or Court Systems**

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

Survey of Government and Public Administration (Law I & Law II)

9th –12th grade

12th grade

(1 credit) (CTEC)

Prerequisite: None

This course provides the knowledge base for students who are interested in taking advanced government and legal studies courses at the CTE Center. Topics include: political philosophy, the structure of the U.S. Constitution, the state and federal judicial system (with an emphasis on the Supreme Court), constitutional case law, civil rights, criminal law, torts, consumer law, family law, public policy, political activism, and the role of media in law and politics.

Health Science Technology

Electrocardiography (Practicum in Health Science Clinical (2 credits) (CTEC)

Prerequisite: Health Science Clinical, CNA Certified, Application **Required, Dual Credit Enrollment Required**

Collin College Dual Credit - DSAE 1340, ECRD 1111

This course is an occupationally specific course designed to give students opportunities for practical application of previously studied knowledge and skills relating to health care. Students continue development of clinical skills, and study for the Electrocardiogram Technician Certification course curriculum in preparation for taking the Electrocardiogram Technician Certification Exam. This course prepares students for employment in hospitals or other health care settings under the supervision of registered nurses or physicians, with continued emphasis on the student's ability to reason, think critically, make decisions, solve problems, and communicate effectively. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions. Immunizations, TB tests, flu shot and drug screen are required. Materials fee ranging from \$125-\$150 required. Students must provide their own transportation to and from off-campus sites.

Emergency Medical Technician (EMT) 12th grade (2 credits) (CTEC) Prerequisite: Health Science Clinical, CNA Certified, Application

Required, Dual Credit Enrollment Required

Collin College Dual Credit – EMSP 1371, EMSP 1501, EMSP 1160 This course includes skills necessary to provide emergency medical care at a basic life support level. This is a health-related, work-based learning experience that enables the students to apply emergency medical care skills and concepts to a real-world environment.

Health Science (1 credit) Prerequisite: Biology and Medical Terminology

10th – 12th grade

This course is designed to provide students an overview of the therapeutic, diagnostic, health informatics, support services, biotechnology research, and development systems of the healthcare industry along with the requirements necessary to further their education to succeed in current or emerging healthcare profession. Through the instructional content aligned with challenging academic standards and relevant technical knowledge and skills, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and recognize that quality health care depends on the ability to collaborate well with others. Materials fee may be required for this course.

Health Science Clinical (A&B) (2 credits) (CTEC)

11th –12th grade

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Prerequisite: Health Science AND Co/Prerequisite Anatomy & Physiology, Application Required

Collin College Articulated Credit – HPRS 1271

This course is designed to give students practical application of previously studied

knowledge and skills. This course provides intensive classroom and clinical study of healthcare and patient care skills. The practicum is designed to give students supervised practical application of knowledge and skills in the medical field. Practicum experiences occur in various medical facilities under the supervision of medical professionals. Clinical settings for practicum experiences may vary from course to course. To be prepared for careers in the medical field, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics and science. During this course, students will take the Texas Nurse Aide certification exam and become Certified Nurse Aides (CNA). CNA testing timelines may vary from course to course. Immunizations, TB tests, flu shot and drug screen are required. Materials fee ranging from \$125-\$150 required. Students must provide their own transportation to and from offcampus sites.

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

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

Medical Terminology (1 credit) **Prerequisite:** None

9th –12th grade

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

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

Pharmacology (1 credit) (CTEC)

12th grade

12th grade

Prerequisite: Health Science, Application Required

This course will equip students with knowledge, technical skills, and work habits required for an entry-level position in the pharmacy field or related area. They will develop an understanding of pharmaceutics and its impact on the healthcare industry. Students will be given Sterile Products (IV) training prior to completion of the course and are eligible to sit for the National Sterile Products (IV) Certification. In addition, students will have the opportunity to sit for the Pharmacy Technician Certification Exam (PTCE) once they successfully complete the course and graduate to become a Certified Pharmacy Technician. Immunizations, TB tests, flu shot and drug screen are required. Materials fee ranging from \$125-\$150 required. Students must provide their own transportation to and from off-campus sites.

Hospitality and Tourism

Advanced Culinary Arts (2 credits) (CTEC) Prerequisite: Culinary Arts, Application Required Collin College Articulated Credit – CHEF 1301

This course is a unique practicum that provides hands-on opportunities for students to participate in a real commercial kitchen setting. 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.

Baking and Pastry (1 credit) (CTEC)

12th grade

Prerequisite: Culinary Arts with a 80% or higher average, Application Required, Dual Credit Enrollment Required Collin College Dual Credit – PSTR 1301

This course covers the basic theory and skill sets used throughout the field of baking and pastry. Topics covered include the use of hand tools and large equipment found in a bakeshop, as well as the exploration of baking and pastry ingredients and their functions. Students will gain a working knowledge of the major methods such as

creaming, blending, foaming, piping, meringues, cut-in, straight dough, quick breads, yeast breads, custards, frozen desserts, cake decorating, and sauces. Students will also be introduced to advanced cake assembly, laminated doughs, chocolate work, plating, and specialty showpieces. Students will also taste and evaluate products they create in class to enhance their understanding of the course material. Course fee is required by Collin College.

Culinary Arts (2 credits) (CTEC) 11th – 12th grade Prerequisite: Introduction to Culinary Arts, ServSafe Managers or Foodhandlers Certification, Application Required

Texas Food Handlers and/or ServSafe Managers Certification is REQUIRED. Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. This course offers direct hands-on experience and instruction in Back of House, restaurant operations, as well as catering opportunities. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. Materials fee may be required for this course. The one-year e-Foodhandlers certification will not be permissible to enter this class.

Food Science (1 credit) Prerequisite: Biology and Chemistry

12th grade

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

Hospitality Services (2 credits) (CTEC) 11th – 12th grade Prerequisite: Hotel Management, Travel & Tourism Management or Introduction to Culinary Arts

Hospitality Services provides students the opportunity to learn more about careers in the hospitality industry including hotels, restaurants, and hospitality venues. In addition to classroom instruction, students will gain real-world experience by job shadowing during the year at a local hotel. Students will learn first-hand about the operations of a hotel by working with hotel professionals in the following departments: front desk, food & beverage, maintenance, housekeeping and accounting. Hospitality Services students will have the opportunity to earn nationally recognized industry certification(s). This course will focus on employability skills, communications skills and professionalism. Students are encouraged to participate in DECA at the CTE Center and/or home-campus.

Hotel Management (1 credit) (CTEC) Prerequisite: Survey of Hospitality & Tourism

Students will study the lodging industry including hotels and resorts and will gain insight into different departments within a hotel such as front desk, food and beverage, housekeeping, maintenance, human resources, and accounting. Students will learn about the daily operations of a well-managed hotel. Hotel Management students will plan and design their own hotel collaborating with other CTEC classes. Students will have the opportunity to earn nationally recognized industry certification(s). Students are encouraged to participate in DECA at the CTE Center and/or home-campus.

Introduction to Culinary Arts (1 credit) 10th – 12th grade Prerequisite: None

During this full year course, students will pursue a national food safety certification (ServSafe Kitchen Manager Certification which is mandatory for taking Culinary Arts at the CTE Center). This course is also designed to introduce students to the methods and concepts of food preparation. Laboratory practice will parallel class work. Also, included in this course are the different aspects of the restaurant setting, including both front and back of the house. Students will have the opportunity to participate in related career and technical organizations & educational study trips as well as explore career opportunities and pathways in the Hospitality & Tourism Program of Study. Testing and materials fee may be required for this course.

Practicum in Hospitality Services (2 Credits) (CTEC)

12th grade

10th –12th grade

Prerequisite: Hospitality Services

Practicum in Hospitality Services is the 2nd year program for students interested in a hospitality industry internship. The course allows opportunities for students to learn through both classroom instruction and interning at a local hotel or other hospitalityrelated business. Students will develop employability skills, job-specific skills related to individual training plan, communication skills, and career portfolio development. The goal of the program is to prepare hospitality students with a variety of skills for a fast-paced workplace as well as prepare students for post-secondary and career success. Students will have the opportunity to participate in DECA at the CTE Center and/or home-campus. Students must provide their own transportation to and from field sites.

Survey of Hospitality and Tourism (1 credit) 9th – 12th grade **Prerequisite: None**

The hospitality and tourism industry encompasses lodging; travel and tourism; recreation, amusements, attractions, and resorts; and restaurants and food beverage service. The hospitality and tourism industry maintains the largest national employment base in the private sector. Students use knowledge and skills that meet industry standards to function effectively in various positions within this multifaceted industry. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Travel and Tourism Management (1 credit) Prerequisite: Survey of Hospitality and Tourism

10th –12th grade

This course incorporates management principles and procedures of the travel and tourism industry as well as destination geography, airlines, international travel, cruising, travel by rail, lodging, recreation, amusements, attractions, and resorts. Employment qualifications and opportunities are also included in this course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Information Technology

Advanced Computer Science (1 credit) **Prerequisite: AP Computer Science**

11th -12th grade

This course continues the study of computer programming using Java. Students must have mastered the topics in AP CS. This mastery is needed for CS3's study of classic data structures including linked lists, stacks, queues, trees, heaps, priority queues, and their application to algorithms such as quick-sort and heap-sort. Students will also be introduced to graph theory and extend their knowledge of recursive algorithms. Other topics may be included, such as advanced GUI techniques, multi-threaded programs, networked applications, and number theory. . Beginning with the Class of 2019 students in this course will receive the same weighted GPA as all AP Courses.

AP Computer Science (1 credit)

10th –12th grade Prerequisite: Computer Science or PAP Computer Science

9th –12th grade

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

Computer Maintenance (1 credit) Prerequisite: Algebra I

Collin College Articulated Credit – CPMT 1305

Students acquire principles of computer maintenance, including electrical and electronic theory, computer hardware principles, and broad-level components related to the installation, diagnosis, service, and repair of computer systems. The computer maintenance curriculum offers a hands-on, career-oriented learning experience with an emphasis on practical activities to help students develop fundamental computer and career skills. Computer Maintenance helps students prepare for entry level career opportunities and the Comp TIA A+ Certification, which helps students to differentiate themselves in the marketplace and advance their careers." This course may qualify as a technology applications credit.

Computer Science (1 credit)

9th –12th grade

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

Internetworking I (CISCO 1 and 2)	11th – 12th grade
(1 credit) (CTEC)	
Prerequisite: Computer Maintenance or Networkin	g are
Recommended	
Collin College Articulated Credit - ITCC 1371 (CCN	A 1) and 1374

(CCNA 2)

This course will provide the students with basic networking terminology and models, CISCO software commands, and configuration of routing protocols and IPv4 and IPv6 addresses. This is the first year of a two-year program. After the first year, the student will be prepared to take the exam to become a CISCO Certified Entry Networking Technician (CCENT). This class cannot be used as the required technology applications credit.

Internetworking II (CISCO 3 and 4) (1 credit) (CTEC)

Prerequisite: Internet Working I (full year), passing score on CISCO 1 and 2 exam

Collin College Dual Credit - ITCC 2371 (CCNA 3) and 2372 (CCNA 4) CISCO 3 and 4 will provide the students with the knowledge of how to configure CISCO routers and switches and setup LAN/WAN networks. This is the second year of a two-year program. After the second semester of this class, the students will be prepared to take the CISCO Certified Network Associate (CCNA) exam. This class cannot be used as the required technology applications credit.

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

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

Students are strongly recommended to complete AP Computer Science before attempting this advanced course. We will apply previously learned object-oriented programming techniques and rules of inheritance (super/sub classes, abstract classes, and interfaces) to Apple's iOS API's. Because of the dynamic nature of development for mobile devices, students will need to be independent learners; most apps will require significant research to complete, and students will work independently for most of the year. Students will code in the Swift programming language using the Xcode IDE, building apps for devices such as iPhone, iPod Touch, and iPad. Additionally, students will analyze the responsibility of software professionals regarding issues of the environment, ethics, health, safety, and diversity in society and in the workplace.

Networking (1 credit) (CTEC) 10th –12th grade **Prerequisite: Computer Maintenance Recommended**

Collin College Articulated Credit - ITNW 1358

Knowing how to install, configure, and troubleshoot a computer network is a highly marketable and exciting skill. This course first introduces the fundamental building blocks that form a modern network, such as protocols, topologies, hardware, and network operating systems. It then provides in-depth coverage of the most important concepts in contemporary networking, such as TCP/IP, Ethernet, wireless transmission, and security. The course will prepare you to select the best network design, hardware, and software for your environment. You will also have the skills to build a network from scratch and maintain, upgrade, and troubleshoot an existing network. Finally, you will be well prepared to pass CompTIA's (the Computing Technology Industry Association's) Network+ certification exam.

PAP Computer Science (1 credit)

9th –12th grade

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

Survey of Information Technology (1 credit) 9th –12th grade **Prerequisite: None**

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

Video Game Design (1 credit) (CTEC) 10th –12th grade Prerequisite: Computer Science, PAP Computer

Science or AP Computer Science

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

Law, Public Safety, Corrections & Security

Forensic Science (1 credit) (CTEC) Prerequisite: Law Enforcement I, Biology & Chemistry

Forensic Science is a course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes.

12th grade

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

Law Enforcement I (1 credit) (CTEC) 10th –12th grade Prerequisite: Survey of Law, Public Safety, **Corrections & Security**

Law Enforcement I is an overview of the history, organization, and functions of local, state and federal law enforcement. This course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology and the classification and elements of crime.

Law Enforcement II (1 credit) (CTEC) Prerequisite: Law Enforcement I

Law Enforcement II is designed to provide the students the knowledge and skills necessary for a career in Law Enforcement. The course includes the ethical and legal responsibilities of law enforcement personnel, operation of police and emergency telecommunicator equipment and courtroom testimony. Students will take the knowledge learned in Law Enforcement I to a higher level. Students will apply knowledge and skills through hands-on, field based experiences using classroom projects and activities. Student will also gain experience in Computer Aided Dispatching (CAD) through the use of simulation software and equipment as well as through direct observation of people employed in this field. Students will use simulated radio communications systems and participate in simulated 911 calls. Upon completion of this course students will receive the Basic Telecommunicator Certification through IAED.

Survey of Law, Public Safety, Corrections, 9th –12th grade and Security (1 credit) (CTEC) **Prerequisite:** None

This course introduces students to professions in law enforcement, security, corrections, and fire and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, security and corrections.

Marketing, Sales & Services

Advertising (1/2 credit) **Prerequisite:** None

9th –12th grade

10th –12th grade

Advertising and Sales Promotion is designed as a comprehensive introduction to the principles and practices of advertising. Students will gain knowledge of techniques used in current advertising, including print, broadcast, and digital media. The course explores the social, ethical, and legal issues of advertising, historical influences, strategies, and media decision processes as well as integrated marketing communications. The course provides an overview of how communication tools can be used to reach target audiences and increase consumer knowledge. The curriculum will present embedded DECA principles and project-based learning that will give the students the opportunity to apply newly acquired marketing skills in real world situations.

Entrepreneurship (1 credit)

Prerequisite: None

Students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students understand the capital required, the return on investment desired, and the potential for profit. The curriculum will present embedded DECA principles and project-based learning that will give the students the opportunity to apply newly acquired marketing skills in real world situations.

Fashion Marketing (1/2 credit) **Prerequisite:** None

9th –12th grade

Fashion Marketing is designed to provide students with knowledge of the various business functions in the fashion industry. Students in Fashion Marketing will gain a working knowledge of promotion, textiles, merchandising, mathematics, selling, visual merchandising, and career opportunities. The curriculum will present embedded DECA principles and project-based learning that will give the students the opportunity to apply newly acquired marketing skills in real world situations. Materials fee may be required for this course

Practicum in Marketing I (Work-Based Learning) 11th grade (CTEC) (3 credits)

Prerequisite: Application and Interview Required

Through approved course required employment, students gain knowledge and skills that help them become proficient in one or more of the marketing functional areas. Students will illustrate appropriate management and research skills to create the marketing mix. This course covers technology, communication, and customer-service skills. The

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

Practicum in Marketing II (Work-Based Learning) 12th grade (CTEC) (3 credits)

Prerequisite: Application and Interview Required

Through approved course required employment, students gain knowledge and skills that help them become proficient in one or more of the marketing functional areas. Students will illustrate appropriate management and research skills to create the marketing mix. This course covers technology, communication, and customer-service skills. The practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. The practicum course is a paid career experience for students participating in a coherent sequence of career and technical education courses in marketing education. The curriculum will present embedded DECA principles and project-based learning that will give the students the opportunity to apply newly acquired marketing skills in real world situations. DECA membership fee is required for this course. Students must provide their own transportation to and from their off-campus employment site.

Social Media Marketing (1/2 credit) 9th –12th grade **Prerequisite:** None

Social Media Marketing is designed to look at the rise of social media and how marketers are integrating social media tools in their overall marketing strategy. The course will investigate how the marketing community measures success in the new world of social media. Students will manage a successful social media presence for an organization, understand techniques for gaining customer and consumer buy-in to achieve marketing goals, and properly select social media platforms to engage consumers and monitor and measure the results of these efforts. The curriculum will present embedded DECA principles and project-based learning that will give the students the opportunity to apply newly acquired marketing skills in real world situations.

Sports and Entertainment Marketing (1/2 credit)

10th –12th grade

12th grade

Prerequisite: None

This course will provide students with a thorough understanding of the marketing concepts and theories that apply to sports and sporting events and entertainment. The areas this course will cover include basic marketing, target marketing and segmentation, sponsorship, event marketing, promotions, sponsorship proposals, and implementation of sports and entertainment marketing plans. This course will also provide students an opportunity to develop promotional plans, sponsorship proposals, endorsement contracts, sports and entertainment marketing plans, and evaluation and management techniques. The curriculum will present embedded DECA principles and project-based learning that will give the students the opportunity to apply newly acquired marketing skills in real world situations.

Sports Management (2 Credits) (CTEC or Home Campus) Collin College Articulated Credit – PHED 1336 Prerequisite: Sports & Entertainment Marketing AND at least one

of the following courses: Advertising & Sales Promotion, Social Media Marketing, Travel & Tourism OR Survey of Hospitality and **Tourism; Application and Interview Required**

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

Science, Technology, Engineering & Mathematics

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 9th –12th grade (1 credit) (CTEC) 9th –12th grade

Prerequisite: Full Algebra I credit

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

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

10th –12th grade

Prerequisite: Full Introduction to Engineering Design credit

Principles of Engineering (POE) is a course that helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes that will help students learn how engineers and technicians use math, science and technology in an engineering problem-solving process to benefit people. The course also includes concerns about social and political consequences of technological change. This course is a portion of the FISD Pre-Engineering Program that is associated with "Project Lead the Way" curriculum that can lead to university credit. **Materials fee may be required for this course**.

PLTW - Aerospace Engineering

(1 credit) (CTEC)

11th –12th grade

Prerequisite: Full Principles of Engineering credit

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

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

Prerequisite: Full Introduction to Engineering Design credit

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

PLTW - Digital Electronics (1 credit) (CTEC)

11th –12th grade

Prerequisite: Full Principles of Engineering credit

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

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

Prerequisite: Full Principles of Engineering credit and 3rd PLTW course credit or concurrently taking 3rd PLTW course

Engineering Design and Development (EDD) is a research course that requires students to formulate the solution to an open-ended engineering question. With a community mentor and skills gained in their previous courses, students create written reports on their applications, defend the reports, and submit them to a panel of outside reviewers at the

Dual Credit - Collin College

Internetworking II	12th grade
CISCO III and IV (CTEC) (1 credit)	
DUAL CREDIT	
Prerequisite: Internet Working I (full year), passing score	•
on CISCO I and II exam, Collin College Dual Credit Enroll	ment

Required

CISCO III and IV will provide the students with the knowledge of how to configure CISCO routers and switches and setup LAN/WAN networks. This is the second year of a two-year program. After the second semester of this class, the students will be prepared to take the CISCO Certified Network Associate (CCNA) exam. This class cannot be used as the required technology applications credit.

Health Science Dual Credit Program

Students taking dual credit courses in health science will be required to meet all admission and program requirements from Collin College which may include a diagnostic test, CPR certification, personal interview, drug test, criminal history check.

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

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

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

Introduction to Emergency Medical Services including: history, organization and function, legal aspects, and ethics. Overview of human anatomy and physiology, patient assessment, airway control, and infection control techniques. Prerequisite: Consent of Program Director. Co-requisites: EMSP 1160 and EMSP 1501. 3 credit hours.

EMSP 1501 Emergency Medical Technician 12th grade FISD Prerequisite: Instructional Practice in Health Science, Application Required, Collin College Dual Credit Enrollment Required

Includes all the skill necessary to provide emergency medical care at a basic life support level with an ambulance service or other specialized services. Lab required. 5 credit hours.

EMSP 1160 Clinical-Emergency Medical 12th grade Technician (EMT Paramedic)-Basic FISD Prerequisite: Instructional Practice in Health Science,

Application Required, Collin College Dual Credit Enrollment Required

A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. 1 credit hour.

The following courses are included as part of the FISD Practicum in Health Science-Specialized Rotation course.

DSAE 1340 Diagnostic Electrocardiography 12th grade FISD Prerequisite: Instructional Practice in Health Science, Application Required, Collin College Dual Credit Enrollment Required

Cardiac testing including the techniques and interpretation of patient physical assessment. Covers electrocardiography, stress testing, Holter monitoring, vital signs, and cardiovascular pharmacology. Lab required. 3 credit hours

ECRD 1111 Electrocardiography 12th grade FISD Prerequisite: Instructional Practice in Health Science, Application Required, Collin College Dual Credit Enrollment

Required

Fundamentals of cardiovascular anatomy and physiology. Includes basic electrocardiography procedures, interpretation of basic dysrhythmias, and appropriate treatment modalities. 1 credit hour.

These courses may assist students in achieving an MSAA Award at Collin College. Students must take the full sequence of courses to receive the award. FISD will add additional classes in the future that are included in the sequence of courses. See Collin College catalog for more information.

Marketable Skills Achievement Awards - Marketable Skills Achievement Awards (MSAA) are nine to 14 credit hour awards that add to the student's marketability or make the student eligible for immediate employment. These awards are also designed as a stepping stone toward earning certificates or the AAS degree.

MSAA – Emergency Medical Services Professions (EMT)

- MSAA Patient Care Technician
- MSAA Health Professions Certified Nurse Assistant Track & Phlebotomy Track
- MSAA Electrocardiography

Health Science Online Courses

These courses may contribute to a student's readiness for courses in the Health Science Pathway. These courses count as high school course credit. Students taking online courses in health science will be required to meet all admission and program requirements from Collin College which may include a diagnostic test, CPR certification, personal interview, drug test, and/or criminal history check.

HITT 1305 Medical Terminology I 11th -12th grade (ONLINE)

FISD Prerequisite: Health Science Study of medical terms through word origin and structure. Introduction to abbreviations and symbols, surgical and diagnostic procedures, and medical specialties. 3 credit hours

HPRS 1271 Introduction to the Healthcare System (ONLINE)

11th –12th grade

FISD Prerequisite: Health Science

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

Dual Credit – LeTourneau University

Aviation Dual Credit Program

AVTC 1003 Foundational Concepts

11th –12th grade

of Aviation Studies (1/2 credit) (CTEC) FISD Prerequisite: Geometry, Algebra II preferred, LeTourneau **University Dual Credit Enrollment Required**

This course is an overview of the aviation profession and the vehicles used for powered flight. Topics include attributes of an aviation professional, airman qualifications privileges and limitations, career opportunities, ethics, technical publications, weight and balance from the technician's perspective, aircraft configuration, and operational capabilities. A study of the early history of powered flight is also included. 3 credit hours.

AVTC 2013 Powerplant Systems for Pilots (1/2 credit) (CTEC)

11th –12th grade

FISD Prerequisite: Geometry, Algebra II preferred, LeTourneau **University Dual Credit Enrollment Required**

This course is an overview of the theory, principles of operation, and control of reciprocating and turbine powerplants and related systems. 3 credit hours.

Dual Credit Course Offerings

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

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

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

All dual credit offerings are described in this section, and also listed under each content area, CTE, and Fine Arts. Students seeking to earn an Associate's Degree should secure academic advising provided through Collin College as well as their high school counselor to ensure their degree plan meets their needs. See counselors for details. Please note that if a student does not achieve a passing grade of 70 or above in the first semester of the dual credit course, the student will be required to discontinue the dual credit course and take the subsequent semester of the course at their high school campus.

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

Frequently Asked Questions about Dual Credit

1. What is Dual Credit?

FISD high school students can take Collin College courses and receive credit both for their high school diploma and their college degree. Courses may be taught on the high school or college campus by Collin College professors.

2. What is Concurrent Credit?

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

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

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

4. Will Collin College dual credit transfer to universities?

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

5. Who can participate?

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

Students must also have permission from the appropriate high counselor, meet Texas Success Initiative standards, and demonstrate the maturity level needed to be successful in college course work. An A/B grade point average is recommended.

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

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

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

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

8. What are my options?

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

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

Courses are taught by college instructors and/or high school teachers who have a master's degree and 18 hours in the subject area being taught.

10. Why is the program being phased in?

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

For questions please contact your FISD HS home campus counselor or Kim Whitlock at Collin College, Special Admissions Coordinator, kwhitlock@collin.edu.

Class of 2018

9 th FISD Fall Semester	Collin College DC	9 th FISD Spring Semes- ter	Collin College DC
English I		English I	
Algebra or Geometry		Algebra or Geometry	
World Geography		World Geography	
IPC or Biology		IPC or Biology	
Elective		Elective	-
Elective		Elective	
Elective		Elective	
Elective		Elective	
10 th FISD Fall Semester	Collin College DC	10 th FISD Spring Se- mester	Collin College DC
English II		English II	
Geometry or Algebra II		Geometry or Algebra II	-
World History		World History	-
Chemistry		Chemistry	-
Elective	-	Elective	-
Elective		Elective	-
Elective		Elective	-
11 th FISD Fall Semester	Collin College DC	11 th FISD Spring Se-	Collin College DC
	j	mester	j
2016-2017 School Year			
English III		English III	
Algebra II or Pre-Calcu- lus		Algebra II or Pre-Calcu- lus	
Physics		Physics	
Elective		Elective	
12 th FISD Fall Semester	Collin College DC	12 th FISD Spring Se-	Collin College DC
2047 2040 Osheel Veen		mester	
2017-2018 School Year			
English IV Pre- Calculus	ENGL 1301	English IV	ENGL 1302
Pre- Calculus	MATH 1314	Pre-Calculus or 4 th Math	MATH 1342 or 1316
Government	GOVT 2305	Economics	ECON 2302
4 th Science	BIOL 1408 – 4 credit hours	4 th Science	BIOL 1409 – 4 credit hours
	Tiours		10015
Elective	ARTS 1301	Elective	GOVT 2306
Elective		Elective	
Elective		Elective	
Elective		Elective	

*The highlighted courses can be taken as dual credit. This represents sample course options a student might select, and is not a set pathway for students.

Class of 2019

9 th FISD Fall Semester	Collin College DC	9 th FISD Spring Semes- ter	Collin College DC
English I		English I	
Algebra or Geometry		Algebra or Geometry	
World Geography		World Geography	
IPC or Biology		IPC or Biology	
Elective		Elective	
10 th FISD Fall Semester	Collin College DC	10 th FISD Spring Se- mester	Collin College DC
English II		English II	
Geometry or Algebra II		Geometry or Algebra II	
World History		World History	
Chemistry		Chemistry	-
Elective		Elective	-
Elective		Elective	-
Elective		Elective	-
11 th FISD Fall Semester	Collin College DC	11 th FISD Spring Se- mester	Collin College DC
English III	ENGL 1301	English III	ENGL 1302
Pre-Calculus	MATH 1314	Pre-Calculus	MATH 1316
US History	HISTORY 1301	US History	HISTORY 1302
Physics		Physics	
Elective		Elective	
12 th FISD Fall Semester	Collin College DC	12 th FISD Spring Se- mester	Collin College DC
English IV	ENGL 2332	English IV	ENGL 2333
Pre-Calculus or 4 th Math	MATH 2412 – 4 credit hours	Pre-Calculus or 4 th Math	MATH 2413 – 4 credit hours
Government	GOVT 2305	Economics	ECON 2302
4 th Science	BIOL 1408 – 4 credit hours	4 th Science	BIOL 1409 – 4 credit hours
	– 4 credit hours	Floativo	
Elective	ARTS 1301	Elective	GOVT 2306
Elective		Elective	
Elective		Elective	
Elective		Elective	

*The highlighted courses can be taken as dual credit. This represents sample course options a student might select, and is not a set pathway for students.

Class of 2020

9 th FISD Fall Semester	Collin College DC	9 th FISD Spring Semes- ter	Collin College DC
English I		English I	
Algebra or Geometry	-	Algebra or Geometry	-
World Geography	-	World Geography	-
IPC or Biology	-	IPC or Biology	-
Elective	-	Elective	-
Elective	-	Elective	-
Elective	-	Elective	-
Elective	-	Elective	
10 th FISD Fall Semester	Collin College DC	10 th FISD Spring Se-	Collin College DC
		mester	
English II		English II	
Geometry or Algebra II		Geometry or Algebra II	
World History		World History	
Chemistry		Chemistry	
Elective		Elective	
Elective		Elective	
	English II		-
Elective 11 th FISD Fall Semester	PSYC 1300	Elective 11 th FISD Spring Se-	Callin Callaga DC
The FISD Fail Semester	Collin College DC	mester	Collin College DC
English III	ENGL 1301	English III	ENGL 1302
Pre-Calculus	MATH 1314	Pre-Calculus	MATH 1316
US History	HISTORY 1301	US History	HISTORY 1302
Physics	ARTS 1301	Physics	SOCI 2301
Elective		Elective	
12 th FISD Fall Semester	Collin College DC	12 th FISD Spring Se- mester	Collin College DC
English IV	ENGL 2332	English IV	ENGL 2333
Pre-Calculus or 4 th Math	MATH 2412 – 4 credit hours	Pre-Calculus or 4 th Math	MATH 2413 – 4 credit hours
Government	GOVT 2305	Economics	ECON 2302
4 th Science	BIOL 1408 – 4 credit hours	4 th Science	BIOL 1409 – 4 credit hours
	– 4 credit hours		
			GOVT 2306
Elective		Elective	0012300
Elective Elective		Elective	

*The highlighted courses can be taken as dual credit. This represents sample course options a student might select, and is not a set pathway for students.

Class of 2021

Collin College DC	9 th FISD Spring Semester	Collin College DC
	English I	
	Algebra or Geometry	
	World Geography	-
	IPC or Biology	-
	Elective	
_	Elective	-
	Elective	
	Elective	
Collin College DC	10 th FISD Spring Semester	Collin College DC
	English II	
	Geometry or Algebra II	
	World History	-
	Chemistry	
_	Elective	-
	Elective	-
English II		
	Floctivo	SPCH 1311
		Collin College DC
Comin Conege DC	II FISD Spring Semester	Collin College DC
ENGL 1301	English III	ENGL 1302
MATH 1314	Pre-Calculus	MATH 1316
HISTORY 1301	US History	HISTORY 1302
ARTS 1301	Physics	SOCI 2301
	Elective	
Collin College DC	12 th FISD Spring Semester	Collin College DC
	English IV	ENGL 2333
		MATH 2413 – 4 credit hours
MATT 2412 – 4 Creat Hours		WATT 2415 - 4 Clean Hours
GOVT 2305	Economics	ECON 2302
BIOL 1408 – 4 credit hours	4 th Science	BIOL 1409 – 4 credit hours
– 4 credit hours		
	Elective	GOVT 2306
		GOVT 2306
	Elective Elective Elective	GOVT 2306
	Collin College DC Collin College DC English II PSYC 1300 Collin College DC Collin College DC ENGL 1301 MATH 1314 HISTORY 1301 ARTS 1301 ARTS 1301 Collin College DC ENGL 1301 MATH 1314 HISTORY 1301 ARTS 1301 ARTS 1301 GOVT 2305	English I Algebra or Geometry World Geography IPC or Biology Elective Elect

*The highlighted courses can be taken as dual credit. This represents sample course options a student might select, and is not a set pathway for students.

Successful completion of all highlighted courses fulfills the requirements for an Associate of Arts from Collin College.

Dual Credit English (III or IV):

ENGL 1301 Composition I – (1/2 credit) Prerequisite: English II and meet eligibility requirements

Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis. Lab required. Prerequisite: Meet TSI college-readiness standard for Reading and Writing; or equivalent. 3 credit hours. This course fulfills 1/2 credit for either English III (for Juniors intending to take ENGL 2332 and ENGL 2333 in the senior year) or English IV (for seniors). It should be paired with ENGL 1302 in the second semester to grant a full credit of high school English.

Dual Credit English (III or IV): ENGL 1302 Composition II – (1/2 credit) 11th –12th grade

Prerequisite: English II and meet eligibility requirements Intensive study of and practice in the strategies and techniques for developing researchbased expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions. Lab required. Prerequisite: ENGL 1301. 3 credit hours. This course fulfills 1/2 credit for either English III (for Juniors intending to take ENGL 2332 and ENGL 2333 in the senior year) or English IV (for seniors). It should be paired with ENGL 1302 in the second semester to grant a full credit of high school English.

Dual Credit English IV:

ENGL 2332 World Literature I – (1/2 credit) Offered starting 2018-19

Prerequisite: ENGL 1302 and meet eligibility requirements

A survey of world literature from the ancient world through the sixteenth century. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. 3 credit hours. This course satisfies 1/2 credit for the Advanced English high school credit (English IV) and should be paired with ENGL 2333 in the second semester.

Dual Credit English IV:

ENGL 2333 World Literature II – (1/2 credit) Offered starting 2018-19

Prerequisite: 2332 and meet eligibility requirements

A survey of world literature from the seventeenth century to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Prerequisite: ENGL 1302 or ENGL 2311. 3 credit hours. This course satisfies 1/2 credit for the Advanced English high school credit (English IV) and should be paired with ENGL 2332 in the first semester.

Dual Credit US History:

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

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

Dual Credit US History: HIST 1302 U.S. History II – (1/2 credit)

Prerequisite: Must meet eligibility requirements

A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War, and post-Cold War eras. Themes that may be addressed in United States History II include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy. 3 credit hours. This course satisfies 1/2 credit of required high school US History credit and should be paired with HIST 1301 in the first semester. Students completing HIST 1301 and 1302 are required to take the Texas End of Course Exam (EOC) for US History.

Dual Credit Government:

GOVT 2305 Federal Government Prerequisite: Meet eligibility requirements

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

Dual Credit Elective:

GOVT 2306 Texas Government – (1/2 credit) Prerequisite: Meet eligibility requirements

Origin and development of the Texas Constitution, structure and powers of the state and local government, federalism and inter-governmental relations, political participation, the election process, public policy and the political culture of Texas. 3 credit hours. This course satisfies 1/2 elective credit toward high school graduation.

Dual Credit Economics:

ECON 2302 Principles of Microeconomics 12th grade -(1/2 credit)

Prerequisite: Must meet eligibility requirements

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

Dual Credit Math:

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

College Algebra is an in-depth study of polynomial, rational, exponential, logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. A graphing calculator is required. This course may qualify as 1/2 of the 4th high school math credit as well as 3 college credit hours. In order to receive 1 full credit of high school math, students must also take Dual Credit Plane Trigonometry (MATH 1316) or Dual Credit Elementary Statistical Methods (MATH 1342).

Dual Credit Math:

MATH 1316 Plane Trigonometry – (1/2 credit) 11th – 12th grade Prerequisite: MATH 1314 and meet eligibility requirements

Plane Trigonometry is the in-depth study and application of trigonometry including definitions, identities, inverse functions, solutions of equations, graphing, and solving triangles. Additional topics such as vectors, polar coordinates and parametric equations may be included. Graphing calculator required. This is course may qualify as 1/2 of the 4th high school, math credit as well as 3 college credit hours. Students must complete Dual Credit College Algebra MATH 1314 before taking this course.

Dual Credit Math:

11th –12th grade MATH 1342 Elementary Statistical Methods - (1/2 credit)

Prerequisite: MATH 1314 and meet eligibility requirements

Elementary Statistical Methods is the collection, analysis, presentation and interpretation of data and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Graphing calculator required. Lab required. Students are responsible for all transportation, books, fees, and tuition at the college and must pass TSI (Texas Success Initiative Assessment) to enroll. This is course and may qualify as 1/2 of the 4th high school math credit as well as 3 college credit hours. Students must complete Dual Credit College Algebra (MATH 1314) before taking this course.

Dual Credit Math:

MATH 2412 Pre-Calculus Math – (1/2 credit) 12th grade Offered Starting in 2018-19

Prerequisite: MATH 1314 and meet eligibility requirements

In-depth combined study of algebra, trigonometry, and other topics for calculus readiness. Graphing calculator required. Lab required. 4 credit hours.

Dual Credit Math:

MATH 2413 Calculus I – (1/2 credit) Offered Starting in 2018-19

Prerequisite: MATH 2412 and meet eligibility requirements

In-depth combined study of algebra, trigonometry, and other topics for calculus readiness. Graphing calculator required. Lab required. 4 credit hours.

12th grade

11th -12th grade

12th grade

12th grade



12th grade

11th grade

11th grade

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

Prerequisite: Meet eligibility requirements

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

Dual Credit Science:

BIOL 1407 Biology for Science Majors II – (1/2 credit) 12th grade

11th -12th grade

12th grade

Prerequisite: BIOL 1406 and meet eligibility requirements

Lecture: The diversity and classification of life will be studied, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. Lab: Laboratory activities will reinforce study of the diversity and classifications of life, including animals, plants, protists, fungi, and prokaryotes. Special emphasis will be given to anatomy, physiology, ecology, and evolution of plants and animals. Lab required. Prerequisite: BIOL 1406. 4 credit hours. This course satisfies ½ credit toward the high school 4th year science requirement.

Dual Credit Science:

BIOL 1408 Biology for Non-Science Majors I 12th grade - (1/2 credit)

Prerequisite: Meet eligibility requirements

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

Dual Credit Science:

BIOL 1409 Biology for Non-Science Majors II 12th grade - (1/2 credit)

Prerequisite: BIOL 1408 and meet eligibility requirements

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

Dual Credit Elective:

PSYC 1300 – Learning Framework 10th 12th grade (1/2 credit)

Prerequisite: Meet eligibility requirements

A study of the 1) research and theory in the psychology of learning, cognition, and motivation, 2) factors that impact learning, and 3) application of learning strategies. Theoretical models of strategic learning, cognition, and motivation serve as the conceptual basis for the introduction of college-level student academic strategies. Students use assessment instruments (e.g. learning inventories) to help them identify their own strengths and weaknesses as strategic learners. Students are ultimately expected to integrate and apply the learning skills discussed across their own academic programs and become effective and efficient learners. Students developing these skills should be able to continually draw from the theoretical models they have learned. 3 credit hours. This course satisfies ½ elective credit toward high school graduation. Students who have taken high school Psychology may enroll in this dual credit course.

Dual Credit Elective:

SOCI 1301 Introduction to Sociology – (1/2 credit) Offered starting in 2018-19

Prerequisite: Meet eligibility requirements

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

Dual Credit Elective:

ARTS 1301 – Art Appreciation (1/2 credit) Offered starting in 2018-19

Prerequisite: Meet eligibility requirements

A general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical context. 3 credit hours. This course satisfies ½ elective credit toward high school graduation. Please note that it cannot be used to count toward the required 1 Fine Arts credit, as it is only ½ credit and has no second-semester course pairing.

Dual Credit Speech:

SPCH 1311 Introduction to Speech Communication 10th -12th grade

11th -12th grade

Offered Starting in 2018-19 to the 2021 graduates and beyond ONLY

Prerequisite: Meet eligibility requirements

Introduces basic human communication principles and theories embedded in a variety of contexts including interpersonal, small group, and public speaking. 3 credit hours. This course satisfies the high school speech credit requirement.