

# HIGH SCHOOL COURSE GUIDE



2019-2020



*Cover art provided by:*

***Dominic Vaccaro  
Timber Creek High School***

## Vision

KISD – an exceptional district in which to learn, work and live.

## Mission Statement

The community of Keller ISD will educate our students to achieve their highest standards of performance by engaging them in exceptional opportunities.

# Intentionally Exceptional

### *We Value...*

Relationships as the foundation for how we teach, learn, work, and play together in a safe, engaging, and caring way.

Care for our teachers because the impact of their work prepares students for their future.

Passionate teaching dedicated to content and craft that inspires others.

Exploration and the pursuit of one's passion that leads to personal growth.

Communication and collaboration that strengthens our unity.

Respect for the diversity of our school community through a culture of understanding and personalized learning opportunities.

### *Our Strategies*

In what ways might school be so interesting, and foster such curiosity and wonder, that it propels endless opportunities?

In what ways might we/I clarify our/my purpose in a way that builds trust and unity?

In what ways might we proactively support teachers so they can focus on teaching?

## **ASSURANCE OF NONDISCRIMINATION**

Rev. 06/07/2018

Keller ISD does not discriminate on the basis of race, religion, color, national origin, sex, disability, or age in providing education services, activities, and programs, including vocational programs, and also provides equal access to the Boy Scouts and other designated youth groups, in accordance with Title VI of the *Civil Rights Act of 1964*, as amended; Title IX of the *Educational Amendments of 1972*; Section 504 of the *Rehabilitation Act of 1973*, as amended; *Age Discrimination Act of 1975*; Title II of the *Americans with Disabilities Act*; and the *Boy Scouts of America Equal Access Act*.

The following district staff members have been designated to coordinate compliance with these legal requirements:

- Title IX Coordinator, for concerns regarding discrimination on the basis of sex:  
Amanda Bigbee  
General Counsel  
350 Keller Parkway, Keller, TX 76248  
(817) 744-1000
- Section 504 Coordinator, for concerns regarding discrimination on the basis of disability:  
Leigh Cook  
Compliance Coordinator  
350 Keller Parkway, Keller, TX 76248  
(817) 744-1000
- Americans with Disabilities Act (ADA) Coordinator, for concerns regarding discrimination on the basis of disability:  
Johjania Najera  
Executive Director of Human Resources  
350 Keller Parkway, Keller, TX 76248  
(817) 744-1000
- All other concerns regarding discrimination:  
Dr. Rick Westfall  
Superintendent  
350 Keller Parkway, Keller, TX 76248  
(817) 744-1000

All complaints shall be handled through established channels and procedures beginning with the building principal, followed by appeal to the appropriate central administration contact, and finally the board of trustees, in accordance with Policy FNG.

If you need the assistance of the Office for Civil Rights (OCR) of the Department of Education, the address of the OCR Regional Office that covers Texas is:

Dallas Office  
Office for Civil Rights, U.S. Department of Education  
1999 Bryan Street, Suite 1620  
Dallas, TX 75201-6810  
Telephone: (214) 661-9600  
Facsimile: (214) 661-9587  
Email: [OCR.Dallas@ed.gov](mailto:OCR.Dallas@ed.gov)

## High School Directory

### CENTRAL HIGH SCHOOL

9450 Ray White Road

Phone: 817-744-2000

Keller, TX 76244

Fax: 817-744-2252

*David Hinson, Principal*

*Mascot: Chargers  
Colors: Crimson & Gold*

### FOSSIL RIDGE HIGH SCHOOL

4101 Thompson Road

Phone: 817-744-1700

Keller, TX 76244

Fax: 817-337-3407

*Dave Hadley, Principal*

*Mascot: Panther  
Colors: Black & Gold*

### KELLER CENTER FOR ADVANCED LEARNING CAREER & TECHNICAL HIGH SCHOOL

201 Bursey Road

Phone: 817-743-8000

Keller, TX 76248

Fax: 817-743-8038

*Leslee Shepherd, Principal*

### KELLER HIGH SCHOOL

601 North Pate-Orr Road

Phone: 817-744-1400

Keller, TX 76248

Fax: 817-337-3362

*Lisa Simmons, Principal*

*Mascot: Indian  
Colors: Blue & Gold*

### NEW DIRECTION HIGH SCHOOL ALTERNATIVE EDUCATION HIGH SCHOOL

250 North College Street

Phone: 817-744-4465

Keller, TX 76248

Fax: 817-744-4464

*Dr. Chelsea Allison, Principal*

*Colors: Purple & White*

### TIMBER CREEK HIGH SCHOOL

12350 Timber Land Blvd.

Phone: 817-744-2300

Fort Worth, TX 76244

Fax: 817-744-2338

*Michelle Somerhalder, Principal*

*Mascot: Falcon  
Colors: Purple & Gold*

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## Advanced Academics

The Keller Independent School District secondary schools offer students the opportunity to participate in challenging academic courses, such as Pre-Advanced Placement (Pre-AP), Advanced Placement (AP), or Dual Credit/ Dual enrollment so that they may better prepare themselves for college and

career. Because these classes are similar to college level classes, students are challenged to be more disciplined, structured and to perform at a higher academic level.

**What is AP?** The AP (Advanced Placement) Program is administered by the College Board of New York. It allows students to participate in college level courses and possibly earn college credit while still attending high school. Secondary schools and colleges cooperate in this program to give students the opportunity to show mastery in college-level courses by taking Advanced Placement (AP) exams in May of each school year.

**What is Pre-AP (PAP)?** The Pre-AP Program is the complementing preparatory program that is designed to provide students with the necessary skills to be successful in AP courses. In KISD these skills together with the Texas Essential Knowledge and Skills (TEKS) comprise the syllabi for Pre-AP courses.

**Advanced Placement Examinations (AP)** These exams provide students with the opportunity to gain college credit by examination at participating universities. Information regarding the awarding of credit, can be found online at [www.collegeboard.com](http://www.collegeboard.com)

**What is Dual Credit (DC):** A student may enroll in academic courses for college credit before they graduate from high school. Students receive both high school and college credit for successful completion of required courses offered through the district partnership university. Students enrolled in dual credit courses are expected to attend class on the scheduled days. Students must receive permission from the professor prior to missing class. The calculation of class rank shall exclude grades earned through college credit courses taken anywhere other than the district high school. There is no limit to the number of credits a student may earn in this manner. A student must:

- Obtain permission from the high school
- Enroll at the college/university offering the courses
- Earn a grade average of 70 or above or “C” in each required course
- Meet the entrance requirements of the college/university including the required TSI exam.
- Comply with the Student Code of Conduct and grading guidelines of the college/university

**What is Dual Enrollment (DE):** Courses Similar to dual credit, by participating in a dual enrollment course, a student is working in college-level curriculum while in high school. However, dual enrollment means that there is a separate college course grade earned and a separate high school course grade earned. The University of Texas at Austin OnRamps courses are an example of this course type. Each dual enrollment course in the guide will have the corresponding HS credit equivalent. Students will register for dual enrollment courses with UT Austin at the beginning of the school year after selecting the dual enrollment course for KISD.

### Dual Course Offerings

The following dual courses are offered during the school day at Keller ISD.

Course Name	KISD #	Credit	Partner Institution	Course Title	College Hours
Dual English III	1065	1	TCC	ENGL 1301 Composition I	3
				ENGL 1302 Composition II	3
Dual English IV	1103	1	TCC	ENGL 2322 British Literature I to 1800	3
				ENGL 2323 British Literature II since 1800	3
Dual US History	4004	1	TCC	HIST 1301 United States History I to 1876	3
				HIST 1302 United States History II since 1876	3
Dual US Government	4304	0.5	TCC	GOVT 2305 United States Government	3



Dual Economics	4332	0.5	TCC	ECON 2301 Principles of Macroeconomics	3
OnRamps PreCalculus	2314	1	University of Texas at Austin	MATH 2312 Discovering Pre-Calculus	3
OnRamps College Algebra	2318	1	University of Texas at Austin	MATH 1414 College Algebra	3
OnRamps Statistics	2414	1	University of Texas at Austin	MATH 1442 Elementary Statistics	3

**Additional Dual Credit options:** The following dual credit courses are approved to be taken at TCC on a student's own time (outside the school day). Students will receive both high school and college credit upon successful completion of these courses. Enrollment in these courses must be coordinated through the high school counseling office and high school credit will only be awarded up receipt of the college transcript. The calculation of class rank shall exclude grades earned through college credit courses taken anywhere other than the district high school.

Course Name	Credit	Tarrant County College Course Title	College Hours
Psychology	0.5	PSYC 2301 General Psychology	3
Sociology	0.5	SOCI 1301 Introduction to Sociology	3
Special Topics in Social Studies	0.5	GOVT 2306 Texas Government	3
Pre-Calculus	1	MATH 1314 College Algebra	3
		MATH 2412 Pre-Calculus Math	4
Independent Study in Math	0.5	MATH 1342 Elementary Statistical Methods	3
Professional Communications	0.5	SPCH1321 Business and Professional Communication	3
Foundations of Personal Fitness	0.5	KINE 1164 Intro Physical Fitness & Sport	1
Spanish I	1	SPAN 1411 Elementary Spanish I	4
Spanish II	1	SPAN 1412 Elementary Spanish II	4
Spanish III	1	SPAN 2311 Intermediate Spanish I	3
Spanish IV	1	SPAN 2312 Intermediate Spanish II	3
		<b>Other Languages follow same sequence:</b> • Level I = Elementary 1411 • Level II = Elementary 1412 • Level III= Intermediate 2311 • Level IV = Intermediate 2312	

## ***Career and Technical Education***

The Keller Independent School District does not discriminate on the basis of race, color, national origin, sex, disability or age in its CTE programs and activities.

Career and Technical Education provides competency-based applied learning which contributes to academic knowledge, higher order thinking skills, problem solving skills, work attitudes, general employability skills, and occupationally-specific skills needed for success in the workplace or in post-secondary education. Various types of programs are offered: laboratory program classes, work-based learning classes, internships, and a variety of courses centered on technology.

This department is moving towards synchronization with the US/Texas labor market. The Career and Technical Education courses are generally taught as competency based. The beginning courses survey the occupational area for the student. An occupational skill is the objective of the more advanced CTE courses. Most of the instruction is hands-on with real-life applications.

## ***Career Planning Resources***

### **College Board**

[www.collegeboard.org](http://www.collegeboard.org)

The College Board is a not-for-profit membership association whose mission is to connect students to college success and opportunity.

Founded in 1900, the College Board is composed of more than 6,000 schools, colleges, universities, and other educational organizations. Each year, the College Board serves seven million students and their parents, 23,000 high schools, and 3,800 colleges through major programs and services in college readiness, college admission, guidance, assessment, financial aid, enrollment, and teaching and learning. Among its best-known programs are the SAT®, the PSAT/NMSQT® and the Advanced Placement Program® (AP®). The College Board is committed to the principles of excellence and equity, and that commitment is embodied in all of its programs, services, activities, and concerns.

### **Federal Student Aid**

<http://studentaid.ed.gov/sa>

The Department of Education's Federal Student Aid programs are the largest source of student aid in America. If you're interested in financial aid for college or a career school, you've come to the right place. Visit the website to find out more and how to apply for this aid.

### **Reality Check**

<https://texasrealitycheck.com/>

This site allows students to search for careers starting with the expenses they need to cover, the salaries they want to make, and their career choices.

### **Career Information**

[www.careeronestop.org](http://www.careeronestop.org)

This is the place to search for career, training, and job search information.

### **Interlink**

[www.interlink-ntx.org](http://www.interlink-ntx.org)

Solving the workforce puzzle by bridging the gap between business and education.

## ***Class Ranking***

occur within the top 10%.

Class ranking is the system of placing students in descending order according to their cumulative grade point averages. For the classes of 2019, 2020, and 2021, the Keller ISD grading scale and grade point equivalent scale are used for all credit granting courses. Class ranks are assigned at each high school grade level at the end of each semester. Beginning with the class of 2022, ranking will only

## ***Course Credit Options***

**Blended Learning:** Classes with this designation meet three times per week. Students complete the bulk of their coursework online, with opportunities for application and enrichment during face-to-face class sessions. On the days that students are not scheduled to be in class (referred to as flex days), their teacher is available for tutoring sessions and opportunities to make up coursework. Courses offered in this fashion are listed below:

<b>Blended Courses</b>				
<b>Course Name</b>	<b>KISD #</b>	<b>Credits</b>	<b>Grade Levels</b>	<b>Recommended Prerequisites</b>
English III, English III AP	B1063, B1083	1	11	English II
English IV, English IV AP	B1093, B1113	1	12	English III
Government, AP Government	B4301, B4311	.5	12	None

Economics, AP Economics	B4302, B4322	.5	12	None
U.S. History, AP U.S. History	B4003, B4023	1	11	None
Aquatic Science	B3513	1	11-12	None

**College Level Courses:** A student may enroll in a college-level course at an accredited college or university that is not in a partnership program within the district. Awarding of credit shall be based on courses available in the Keller ISD Course Guide or District administrator approval. The calculation of class rank shall exclude grades earned through college credit courses taken anywhere other than the district high school.

**Correspondence Courses:** Prior approval to enroll in a correspondence course must be obtained through the application available in the counseling center. A student may be enrolled in only one correspondence course at a time. The calculation of class rank shall exclude grades earned through correspondence courses. See your counselor for further information and special requirements for students wishing to graduate using correspondence course work.

**Credit by Exam:** Prior approval to take a credit by exam must be obtained through the application available in the counseling center. The calculation of class rank shall exclude credit by exams. Only successful attempts are noted in the academic achievement record. See your counselor for further information on requirements and procedures.

**Acceleration:** A student may earn credit for certain courses in which they have had *no prior instruction* by scoring a grade of 80 or above on an examination for acceleration and meeting other eligibility requirements.

**Credit Recovery:** For courses where credit was denied because of grades or excessive absences, a student may earn credit toward graduation by scoring a grade of 70 or above on a special examination. A fee is charged for credit by exam credit recovery testing.

**Online/Virtual Learning:** The Keller ISD Virtual Learning program, iChoose, is designed to address the needs of students by providing opportunities to complete foundation courses in CTE pathways, accelerate their completion of language acquisition courses, and prepare them for success in online coursework as they continue their education past high school. Students have the option of selecting these courses if they are comfortable with receiving all of their coursework online. Teachers interact with students through email and online office hours. Students must maintain their pacing in the class in order to receive the best possible grades. Students will have a class period in their schedule where they will be mentored by a Keller ISD teacher as they progress through the course. **Virtual learning course grades are reported in the grade reporting system and count toward UIL eligibility and GPA.**

Courses offered in this fashion are listed below:

Virtual Career and Technology Courses				
Course Name	KISD #	Credits	Grade Levels	Recommended Prerequisites
Entrepreneurship	Z82503	1	9-12	None
Principles of Business, Marketing, and Finance	Z81400	1	9-11	None
Lifetime Nutrition and Wellness	Z82101	.5	9-12	None
Professional Communication	Z1465	.5	9-12	None
Touch System Data Entry	Z81403	.5	9-12	None
Personal Financial Literacy	Z4504	.5	9-12	None
Business Information Management I	Z81401	1	10-12	Principles of Business, Marketing, and Finance
Business Management	Z81405	1	10-12	BIM I
Accounting I	Z81610	1	10-12	Business Management

## Virtual World Language Courses

French I	Z6113	1	9-12	None
French II	Z6213	1	9-12	French I
German I	Z6213	1	9-12	None
German II	Z6223	1	9-12	German I
Latin I	Z6303	1	9-12	None
Latin II	Z6313	1	9-12	Latin I
Spanish I	Z6013	1	9-12	None
Spanish II	Z6033	1	9-12	Spanish I

**Texas Virtual School Network:** The Texas Virtual School Network (TxVSN) provides high school courses to supplement regular instructional programs. The high school counselor will register and approve all student course enrollments. Currently, students are limited to two (2) courses per TxVSN session. Fees may vary by the course and the providing district. The providing district sets the calendar for TxVSN classes. Students must follow the schedule and guidelines set in each course. All courses in progress are considered passing until notification is received from the provider. Information on TxVSN course is located at <http://www.txvsn.org>.

### *Credit*

A unit value given to each high school class taken and passed. Credits are awarded at the end of each semester except when taken prior to ninth grade in which case they will be awarded after completion of the 8th grade. The credit value is shown for each course described.

**Local Credits:** Some courses offered are not among the state approved courses and will receive local credit. Grades earned in locally developed courses are not computed into the grade point average. A local credit is neither mandatory nor calculated into the required amount of credits needed to graduate.

### *Elective*

A course that a student elects or chooses to take although the course is not specifically required.

### *Endorsement*

For students who begin 9th grade in 2014-2015 and thereafter, prior to entering 9th grade, students are required to declare a chosen program of study, or endorsement, which will help in guiding course elective choices throughout high school. Students may earn a single endorsement, or multiple

endorsements in the areas of: Arts and Humanities, Business and Industry, Multidisciplinary Studies, Public Service, or STEM (Science, Technology, Engineering, & Math). Students wishing to change their declared endorsement must follow the Keller ISD process and should see their assigned counselor. Students may not change their endorsement choice until after the 10th grade year.

### *Enrollment*

A student enrolling in the district for the first time must be accompanied by his/her parents or legal guardian and must provide satisfactory evidence of required immunization, proof of residency (utility bill or lease agreement), and a withdrawal form from the previous school. To complete admission the following demographic information is necessary: social security number, home

address, home phone, mother's name, place of business and work phone, father's name, place of business and work phone, also a friend or relative's name and number in case of emergency is required. Proof of residency will be required every year. An email address will assist in communication between home and school.

## ***Gifted and Talented***

Students identified as Gifted and Talented are served through the Pre-Advanced Placement, Advanced Placement, and Independent Study classes in the secondary schools in the Keller Independent School District. In order for students to continue to be served, they must be enrolled in one or more Pre-AP or AP courses. Please see the course guide for the specific class titles.

## ***Grade Point Average***

Students in the class of 2020 and 2021 will use the current 100-point GPA calculation scale. GPA will change for the Class of 2022 and beyond.

### Class of 2020 and 2021 GPA information

The GPA information for the Class of 2020 and 2021:

- Courses taken for high school credit in middle school are on the transcript
  - Cohort 2019 are included in the GPA
  - Cohort 2020 and 2021 are not calculated in the GPA
- Final ranking occurs at the end of the 5<sup>th</sup> 6 weeks of the senior year.
- Courses are graded on a 100-point scale.
- Pre-AP and AP courses get 10 additional GPA points per semester.

### Class of 2022 GPA and Rank Information (Students who entered 9<sup>th</sup> grade in 2018-2019)

The GPA information for the Class of 2022:

- All state courses are calculated.
- Final Ranking will occur at the end of the 1<sup>st</sup> semester of the senior year.
- Courses taken for high school credit in middle school are on the transcript, but are not calculated in the GPA.
- Graduated Course Grading System.
  - Academic level courses will have a maximum GPA of 4.0
  - Pre-AP and Dual Credit courses will have a maximum GPA of 4.5
  - AP courses will have a maximum GPA of 5.0

### Class of 2023 and Beyond GPA and Rank Information (Students who enter 9<sup>th</sup> grade in 2019-2020)

The GPA information for the Class of 2023 and beyond:

- Final Ranking will occur at the end of the 1<sup>st</sup> semester of the senior year.
- Graduated Course Grading System.
  - Academic level courses will have a maximum GPA of 4.0
  - Pre-AP and Dual Credit courses will have a maximum GPA of 4.5
  - AP courses will have a maximum GPA of 5.0
- Courses used for GPA calculation will include the following 17 courses/16 credits required by the state of Texas for graduation:
  - English 1, English 2, English 3, English 4
  - Algebra 1, Geometry, Algebra 2
  - Biology, Chemistry, Physics
  - World Geography, World History, U.S. History, Government, and Economics
  - World Language 1, World Language 2
- High School courses (listed above) taken prior to entering 9<sup>th</sup> grade will be included in the GPA calculation.

*State Required Courses for Graduation Included in the GPA Calculation taken in middle school will count in the GPA calculation.*

## ***Grading Scale***

The following scale is used for grade point average calculation for students in the class of 2022 and beyond.

Grade	AP	Dual/ Pre-AP	Regular	Grade	AP	Dual/ Pre-AP	Regular
100	5.0	4.5	4.0	84	3.4	2.9	2.4
99	4.9	4.4	3.9	83	3.3	2.8	2.3
98	4.8	4.3	3.8	82	3.2	2.7	2.2
97	4.7	4.2	3.7	81	3.1	2.6	2.1
96	4.6	4.1	3.6	80	3.0	2.5	2.0
95	4.5	4.0	3.5	79	2.9	2.4	1.9
94	4.4	3.9	3.4	78	2.8	2.3	1.8
93	4.3	3.8	3.3	77	2.7	2.2	1.7
92	4.2	3.7	3.2	76	2.6	2.1	1.6
91	4.1	3.6	3.1	75	2.5	2.0	1.5
90	4.0	3.5	3.0	74	2.4	1.9	1.4
89	3.9	3.4	2.9	73	2.3	1.8	1.3
88	3.8	3.3	2.8	72	2.2	1.7	1.2
87	3.7	3.2	2.7	71	2.1	1.6	1.1
86	3.6	3.1	2.6	70	2.0	1.5	1.0
85	3.5	3.0	2.5				

## ***Grade Reporting***

The attendance law states that students must have 90% attendance in a high school courses in order to receive credit in a given course in order to meet the state's attendance law of course credit.

A student must be present 90% of the days in each class during a semester. Numerical scores are used to report grades and a minimum grade average of 70 is required for receiving credit. Credit for a full year course is awarded on a semester-by-semester basis. Other courses offered locally, which are not among the state approved courses for grades 9-12 are not included in calculating grade point averages and class rank.

## ***Graduation Rankings***

Students who graduate in the top 10% of their high school class are eligible for automatic admission to institutions of higher education if they have completed the Foundation with Endorsement Distinguished Level of Achievement plan. Students who may, due to university policy, be eligible for automatic admission if they are in the top 25% of their graduating class must also

complete the Foundation with Endorsement Distinguished plan. Colleges and universities may require additional courses for admission. Students should check with the institution they are interested in attending for any additional requirements.

### **Honor Graduates**

- Students GPAs will be ranked to determine valedictorian (1<sup>st</sup>) and salutatorian (2<sup>nd</sup>). To be eligible for valedictorian or salutatorian honors, the student shall have attended a Keller Independent School District high school the entire senior year. If a tie exists, co-valedictorian or co-salutatorians will be declared.
- Transfer students shall receive honors grade credit and point values based on the same standards and policies, which govern students who complete equivalent courses in the district. Transfer students shall not receive additional grade point value for advanced or honors courses taken outside the district for which an equivalent course was not available in the district to a student graduating the same year. Students who transfer in with a letter grade will receive the numerical equivalent based on board policy.

## ***Graduation Requirements***

Texas Education Agency:

<http://www.tea.state.tx.us/graduation.aspx>

Keller ISD Board Policy:

[http://pol.tasb.org/Policy/Download/1103?filename=EIF\(LOCAL\).pdf](http://pol.tasb.org/Policy/Download/1103?filename=EIF(LOCAL).pdf)

To graduate from Keller ISD, students must fulfill all requirements established by the State of Texas and the Board of Trustees. To learn the current requirements for each please see:

Note that graduation requirements may change after the printing of this guide. Please refer to the links above and/or check with your counselor for the latest updates. Students must pass all state required end of course exams to include English I, English II, Algebra 1, Biology, and US History.

Only those senior students who have completed all requirements for graduation may participate in the graduation exercise held either at the conclusion of the regular school year or in the summer. Senate Bill 673 from the 80<sup>th</sup> Texas Legislature ensures that students who receive special education services but who have not yet completed the requirements of their IEPs have the opportunity to participate in a graduation ceremony upon completion of four years of high school.

## ***High School Classification***

Students are classified according to the number of credits they have earned and their year in high school. Required classification credits are listed below.

Freshman	0 to 5.5 credits
Sophomore	6 to 11.5 credits
Junior	12 to 17.5 credits
Senior	18+ credits

## ***Keller Center for Advanced Learning (KCAL)***

The Keller Center for Advanced Learning will offer students the opportunity to take advanced courses within their chosen endorsement. Students will participate in field-based experiences, culminating in the senior practicum made possible with strong community and business partnerships. Each student will have the opportunity to participate in Career and Technical Student Organizations (CTSOs) and obtain certifications, certificates, licensures and/or

college credit within their program of study. KCAL is a collaborative, innovative educational experience that will empower KISD students to be highly competitive in our global society.



## ***Physical Education***

One credit of P.E. is required of all students for graduation; however up to 4 credits may be earned. The following activities may be substituted for the one credit of required P.E.:

Athletics (up to 4 credits)	Partner P.E. (up to 3 credit)
Band during fall semester (maximum of 1 credit)	ROTC I (maximum of 1 credit)
Cheerleading (maximum of 1 credit)	Technical Theatre 2 (maximum of 1 credit)
Drill Team (maximum of 1 credit)	Vocal Ensemble 1 (maximum of 1 credit)
Dance I (maximum of 1 credit)	Musical Theatre 1 (maximum of 1 credit)
Color guard (maximum of 1 credit)	Jazz Ensemble (Show Choir) (maximum of 1 credit)

## ***Prerequisites***

A requirement that must be met in order to qualify to take a specific course. Some courses have recommended prerequisites that would best prepare a student for the next level of course. Prerequisites are listed for each course described.

## ***Schedule Changes***

Master schedules are developed in the spring prior to the upcoming year. Selections during registration indicate how many teachers and sections will be need for a course. The process allows administrators to plan and to hire for optimum academic strength. When students are permitted to randomly change

schedules, classes become overcrowded. As a result, all students are affected. Even the most effective planning is compromised. Very seldom does a one-course change affect only one course. Careful selection benefits everyone. Thank you for being a crucial part of our educational team as we work together for academic excellence.

### **Registration**

- Parent and student informational meetings will be held during spring registration.
- Students will be guided through course selection.
- Students who do not complete registration will have a schedule arranged for them by their counselor according to their academic needs and/or graduation plan.

### **Add/Drop Date**

- The last day in March will officially end the opportunity for schedule changes.
- Only schedule changes pertaining to graduation plans and/or computer errors will be addressed during the following school year.
- A student who does not complete registration by the add/drop date will not be eligible for a schedule change.

### **SAVE Committee Process**

- The SAVE Committee is chaired by the assistant principal and is composed of the student, the parent/guardian, the teacher whose class the student is requesting to exit, and the student's counselor.
- Schedule changes that are requested after the add/drop date and that affect AP, Pre-AP, and online classes only will be addressed through the SAVE Committee process.
- Schedule change requests for elective classes will not be considered after the last day in March.

<b>To request a SAVE Committee, a student and parent must:</b>	
1.	Conference with the teacher about the course.
2.	Complete a SAVE Committee request form.
3.	Submit request form to the counseling office.
<b>A student can request a SAVE Committee until:</b>	
	Seven weeks from the first day of the class.

**Every effort is made to “SAVE” a student’s schedule.**



## *Semester*

This is an 18-week segment of the 9-month school year. Two semesters make up the school year with credits being earned at the end of each semester.

## *Student Athletes*

High school student athletes take academic college-preparatory courses, preferably one in each of the following areas: English, math, science, social studies, and world language. The students should compare course selection against the list of NCAA-approved core courses. For more information about

NCAA and the requirements please visit the NCAA Eligibility Center online. Courses that are on the 48H list for Keller ISD are indicated with a ☒

## *Summer Intervention*

Summer intervention is provided to give the student the opportunity to take a course that was not successfully completed during the school year. Registration will be conducted towards the end of the spring semester. Summer Intervention takes place at a high school campus.

## *Testing*

**Advanced Placement Examinations (AP):** These exams provide students with the opportunities to gain college credit by examination at participating universities. Information regarding the awarding of credit, can be found online at [www.collegeboard.com](http://www.collegeboard.com) Keller ISD and the Keller ISD Education

Foundation have combined efforts to create financial support for students enrolled in and taking Advanced Placement exams. Contact your campus counseling office for financial aid information for AP testing.

**\*Students should contact their college of choice regarding required placement exams.**

**ASVAB:** The Armed Services Vocational Aptitude Battery is available to students in grades 10-12. It measures aptitudes and abilities and relates them to specific occupations in civilian and military life. Students are strongly encouraged to take this test to help them make wise career choices. Your scores in four critical areas -- Arithmetic Reasoning, Word Knowledge, Paragraph Comprehension and Mathematics Knowledge -- count towards your Armed Forces Qualifying Test (AFQT) score. The AFQT score determines whether you're qualified to enlist in the U.S. military.

### **STAAR EOC:**

State Assessment Requirements	Students will be required to take the State of Texas Assessments of Academic Readiness (STAAR) end of course (EOC) exam corresponding to designated courses. There are 5 STAAR EOC exams aligning to designated courses. Students are required to perform satisfactorily on each state required exam.			
What courses have STAAR EOCs?	English I English II	Algebra I	Biology	US History
What are the STAAR EOC Performance Standards?	<u>Passing Performance Standards:</u> Approaches Grade Level Meets Grade Level Masters Grade Level ----- <u>Non-passing Performance Standards:</u> Does Not Meet Grade Level			
When will students take initial attempt of EOC exams?	STAAR EOC English I and II administered in early April. Each English exam consists of a reading and writing component combined on to one exam. STAAR EOC Algebra I, Biology, and US History administered in early May.			
When are the STAAR EOC retest opportunities offered?	STAAR EOC retest will be offered three times a year, once in the fall, spring, and summer.			

**College Entrance Exams:** Since college entrance exams are required, the student planning to go to college is encouraged to take the following tests: (It is recommended that English III and Algebra 2 be completed before taking any college entrance exam).

**National Merit Scholarship Qualifying Test (PSAT-NMSQT):** This test is designed to aid sophomores and juniors in estimating their ability to do college level work and to guide them in making college plans. Industries and universities for scholarship purposes sometimes use the PSAT scores. National Merit Scholarship recipients are determined from the scores acquired from the PSAT taken during their junior year. This test is given in October each year.

**ACT and/or SAT:** What is necessary for the testing of ACT and SAT? The ACT and/or SAT exams are a system for testing prospective college students for the purpose of admission and counseling. The student should find out which test is required or preferred by the institution. These tests are administered several times during the year at various locations. Each of these tests has a required fee that must be paid at the time of registration.

Registration information is available online at [www.collegeboard.com](http://www.collegeboard.com) or [www.actstudent.org](http://www.actstudent.org).

**\*Students should contact their college of choice regarding required exams.**

**TSI Assessment-**The TSI (Texas Success Initiative) is a program designed to help colleges and universities in Texas determine if a student is ready for college-level course work in the general areas of reading, writing, and mathematics. Incoming college students in Texas are required to take the TSI Assessment, unless exempt, to determine college level readiness. Based on TSI performance, a student may be placed in a developmental course or intervention to improve skills and prepare for success in college course. The TSI has a Pre-Assessment activity component designed by the college or university and is mandatory. Students are not allowed to take the TSI until this activity has been completed.

To satisfy TSI and course prerequisite requirements, you must meet or exceed the following college-ready scores:

Subject Area	College-Ready Score
<a href="#">Mathematics</a>	350
<a href="#">Reading</a>	351
<a href="#">Writing</a>	Placement score of at least 340 and an essay score of at least 4 OR Placement score of less than 340 and an ABE Diagnostic level of at least a 4 and an essay score of at least 5

It is possible for a student to earn an exemption from the TSI Assessment. Exemption criteria are listed below:

- ACT-Composite score of 23 with a minimum of 19 on the English and/or Mathematics test; or
- SAT-Combined verbal and mathematics score of 1070 with a minimum of 500 on the verbal and/or the mathematics test.

### ***Transfer Students***

Out of state transfer students must complete all state and local graduation requirements to be eligible for a Texas diploma. Incoming transfer credits toward graduation will be accepted from accredited public schools and from private or parochial schools accredited by an association recognized by the Texas Commissioner of Education.

## ***UIL Eligibility***

The following UIL standards are used to determine academic eligibility for the first six weeks for the school year. –

- Grade 9 and below: Students must have been promoted from the previous grade.
- Grade 10: Five accumulated credits that count toward state graduation requirements.
- Grade 11: Ten accumulated credits that count toward state graduation requirements or student must have earned at least five credits within the last twelve months.
- Grade 12: Fifteen accumulated credits that count toward state graduation requirements, or student must have earned at least five credits within the last twelve months.

## Keller ISD Graduation Requirements-Students who entered High School in 2014-2015 and beyond

The Default Plan for Keller ISD students is the Distinguished Level of Achievement Plan, which includes one endorsement choice.

	9th	10th	11th	12th
<b>Keller ISD Graduation Requirements - 26 Credits</b>				
<b>English - 4 Credits</b>	English I	English II	English III	Advanced English
<b>Math - 4 Credits</b>	Algebra I	Geometry	Algebra II	Advanced Math
<b>Science - 4 Credits</b>	Biology	IPC, Physics OR Chemistry	Advanced Science	Advanced Science
<b>Social Studies - 4 Credits</b>	World Geography	World History	US History	Government/ Economics
<b>World Languages</b>	2 credits of the same world language			
<b>Physical Education</b>	1 credit			
<b>Fine Art</b>	1 credit – <i>Art, Band, Choir, Dance, Orchestra, Piano, or Theatre</i>			
<b>21st Century Skills</b>	.5 credit Professional Communications			
<b>Electives</b>	5.5 credits			

Endorsement	Programs of Study	Requirements
<b>Arts and Humanities</b>	<ul style="list-style-type: none"> <li>American Sign Language</li> <li>English</li> <li>Fine Arts</li> <li>Social Studies</li> <li>World Languages</li> </ul>	Students must take a coherent sequence of at least four courses within the appropriate programs of study.
<b>Business and Industry</b>	<ul style="list-style-type: none"> <li>Agriculture</li> <li>Architecture and Construction</li> <li>Arts, Audio Video Technology</li> <li>Business Communications*</li> <li>Business</li> <li>Finance</li> <li>Hospitality and Tourism</li> <li>Information Technology</li> <li>Marketing</li> <li>Transportation</li> </ul>	Students must take a coherent sequence of at least three courses for four or more credits in the correlated pathway. (Two of the credits must be advanced, junior year or later)
<b>Public Service</b>	<ul style="list-style-type: none"> <li>Education and Training</li> <li>Health Science</li> <li>Human Services</li> <li>Law Enforcement and Security</li> <li>Military Science</li> </ul>	Students must take a coherent sequence of at least three courses for four or more credits in the correlated pathway. (Two of the credits must be advanced, junior year or later)
<b>Science, Technology, Engineering, and Math (STEM)</b>	<ul style="list-style-type: none"> <li>Science</li> <li>Engineering</li> <li>Math</li> </ul>	<p><b>All STEM Endorsements must include Algebra II, Chemistry, and Physics.</b></p> <p>Students must take a coherent sequence of at least three courses for four or more credits in the correlated pathway. (Two of the credits must be advanced, junior year or later)</p> <p>OR</p> <p>STEM – Math must take two additional math classes after successful completion of Geometry and Algebra II.</p> <p>OR</p> <p>STEM – Science must take two additional science courses after successful completion of Biology, Chemistry, and Physics</p>

Endorsement	Programs of Study	Requirements
<b>Multidisciplinary</b>	4 Courses of each <ul style="list-style-type: none"> <li>English</li> <li>Math</li> <li>Science</li> <li>Social Studies</li> </ul>	+4 Credits in each foundation subject area – must include English IV, and Chemistry and/or Physics OR +4 Credits in AP or Dual OR +4 Advanced Courses (Junior & above) in Endorsement Areas for 4 or more credits
<b>Distinguished</b>	1. Successful completion of the Foundation High School Program. 2. Earning at least one Endorsement <ul style="list-style-type: none"> <li>Completing a total of four credits in math, including credit in Algebra 2</li> <li>Completing a total of four credits in science</li> </ul>	
<b>Performance Acknowledgements</b>	For outstanding performance <u><b>Advanced Coursework</b></u> <ul style="list-style-type: none"> <li>12 hours of dual credit or locally articulated courses, with a grade of a “B” or higher</li> </ul> OR <ul style="list-style-type: none"> <li>An associate’s degree while in HS</li> </ul> <u><b>Bilingualism/Bi-literacy Coursework</b></u> <ul style="list-style-type: none"> <li>Completing all ELA Requirements with a grade of a “B” or higher</li> </ul> AND <ul style="list-style-type: none"> <li>Three credits in the same “Language other than English” with a grade of a “B” or higher</li> </ul> OR <ul style="list-style-type: none"> <li>Successful completion of a Level 4 course in a “Language other than English” with a grade of a “B” or higher</li> </ul> OR <ul style="list-style-type: none"> <li>Completion of at least three credits in foundation subject area courses in a language other than English with a grade of a “B” or higher</li> </ul> OR <ul style="list-style-type: none"> <li>A score of a “3” or higher on a College Board AP Exam for a “Language other than English”</li> </ul> OR <ul style="list-style-type: none"> <li>Performance on a national assessment of language proficiency in a “Language other than English”</li> </ul> <b>ENGLISH LANGUAGE LEARNERS ONLY</b> <i>In addition to above requirements, students must also</i> <ul style="list-style-type: none"> <li>Participate in and meet the exit criteria for a bilingual or ESL program</li> </ul> AND <ul style="list-style-type: none"> <li>Scored at the Advanced High Level on the TELPAS</li> </ul> <u><b>Advanced Examination</b></u> <ul style="list-style-type: none"> <li>A score of 3 or higher on a College Board AP Exam</li> </ul> <u><b>College Readiness Examination</b></u> <ul style="list-style-type: none"> <li>Commended Scholar score or higher on the PSAT/NMSQT for either the NHRP or NASP</li> </ul> OR <ul style="list-style-type: none"> <li>College Readiness Benchmark score on at least two of the subject tests on the ACT-PLAN exam</li> </ul> OR <ul style="list-style-type: none"> <li>Combined Critical Reading &amp; Mathematics Score of at least 1250 on the SAT</li> </ul> OR <ul style="list-style-type: none"> <li>Composite score of at least 28 on the ACT (excluding the writing sub-score)</li> </ul> <u><b>Workforce Readiness</b></u> <ul style="list-style-type: none"> <li>Successful performance on an examination that results in obtaining a nationally or internationally recognized business or industry certification</li> </ul> OR <ul style="list-style-type: none"> <li>Successful performance on an examination that results in obtaining a government-required credential to practice a profession</li> </ul>	

## *Four Year Planning*

Grade Level	1	2	3	4	5	6	7	8
9th	English I	Algebra I	Biology	World Geography or AP Human Geography	*Language 1	*Professional Comm/ *Touch System Data	*PE	Endorsement elective
10th	English II	Geometry	IPC, Physics, Chemistry	World History	*Language 2	*Fine Art	Endorsement elective	Endorsement elective
11th	English III	Algebra II or Algebraic Reasoning	Advanced 3rd Science	U.S. History	Endorsement elective	Endorsement elective	Endorsement elective	Endorsement elective
12th	Advanced English Course	Algebra II or Advanced 4th Math	Advanced 4th Science	Government / Economics	Endorsement elective	Endorsement elective	Endorsement elective	Endorsement elective
<i>Course sequence is dependent upon prior credits completed in middle school.</i> <i>*Designated courses may be completed at any grade level</i>								

***TOTAL CREDITS REQUIRED = 26***

## *English Language Arts*

Course Name	Credits	Grade Levels	Recommended Prerequisites
English I	1	9	None
English I Pre-AP	1	9	None
English II	1	10	English I
English II Pre-AP	1	10	English I
English III	1	11	English II
English III AP	1	11	English II
Dual English III – TCC Composition I/II (1301,1302)	1	11	Required TCC Admissions Standards
English III Blended	1	11	English II
English III Blended AP	1	11	English II
Sheltered English I/II/III/IV	1	9-12	Required Placement Test and/or LPAC recommendation
<b>Advanced English Courses</b>			
English IV	1	12	English III
English IV AP	1	12	English III
Dual English IV – TCC British Literature I /II (2322, 2323)	1	12	Required TCC Admissions Standards Dual English III
English IV Blended	1	12	English III
English IV Blended AP	1	12	English III
Creative/Imaginative Writing	1	10-12	English II
Advanced Creative Writing	1	11-12	Creative Writing
Debate III	1	11-12	Oral Interpretation I
Advanced Broadcast Journalism III	1	11-12	Advanced Broadcast Journalism II
Advanced Journalism: Newspaper III	1	11-12	Advanced Journalism Newspaper II
Advanced Journalism: Yearbook III	1	11-12	Advanced Journalism Yearbook II
<b>English Electives</b>			
Photojournalism	.5	9-12	None
Debate I, II	1	10-12	Debate I
Oral Interpretation I, II	1	10-12	Debate I
Advanced Broadcast Journalism I, II	1	10-12	Contemporary Media
Advanced Journalism: Newspaper I, II	1	10-12	Contemporary Media
Advanced Journalism: Yearbook I, II	1	10-12	Contemporary Media
Humanities	2	9	None
Independent English I/II/III	1	9-11	Required Language Proficiency Test and/or LPAC recommendation
Practical Writing Skills	1	12	Required Language Proficiency Test and/or LPAC recommendation

<b>Recommended English Sequence</b>				
Students who entered 9 <sup>th</sup> Grade in 2014-2015 and beyond				
English Sequence	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
4 Credits	English I or English I Pre-AP	English II or English II Pre-AP	English III or English III AP or Dual English III	Advanced English Course *See Appendix A

E N G L I S H I		
GRADE: 9	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03220100		KISD: 1003
RECOMMENDED PREREQUISITE: None		

English I is the foundation course designed for ninth grade students who demonstrate talent in verbal and/or writing skills. Rigorous instruction emphasizes sentence structure, paragraph development, and development of comprehensive papers of explication, personal narrative, opinion, and description. Composition practice is coordinated with guided reading of fiction, nonfiction, drama, and poetry. The course will focus on critical thinking skills, literary analysis, and development of writing styles.

E N G L I S H I P R E - A P		
GRADE: 9	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03220100		KISD: 1023
RECOMMENDED PREREQUISITE: None		

This course provides an in-depth study of the elements and genres of literature. Students produce a variety of original texts including documented research and literary analysis. They will also present oral communications using various forms and technologies. They analyze and critique their presentations and those of others emphasizing the purpose and effect of visuals on the audience. Students will focus on skills required for the Advanced Placement Exam.

E N G L I S H II		
GRADE: 10	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03220200		KISD: 1033
RECOMMENDED PREREQUISITE: English I		

English II is designed for tenth grade students. Intense instruction emphasizes sentence structure, paragraph development, and development of explication, personal narrative, opinion, and description. Composition practice is coordinated with guided reading of fiction, nonfiction, drama, and poetry. The course will focus on critical thinking skills, literary analysis, and development of writing styles. Each student will complete a research project.

E N G L I S H II / P R E - A P		
GRADE: 10	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03220200		KISD: 1053
RECOMMENDED PREREQUISITE: English I		WEIGHTED: 10 pts.

English II Pre-AP includes advanced mechanics, syntax, usage, and vocabulary in preparation for the PSAT and Advanced Placement Exam. It continues work on critical thinking skills. Students analyze discourse in persuasive and informative texts as well as the short documented essay. Students will also write reflectively using personal narrative and memoir. The course requires critical reading of classical, Medieval, Renaissance, and contemporary literature with emphasis on the writer's style and purpose. Literary selections provide more mature reading experiences. Students will produce a variety of oral and media communications. They will analyze and evaluate their own and others' presentations in terms of the effect of media on American society. Students will also complete a research project.

E N G L I S H III		
GRADE: 11	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03220300		KISD: 1063
RECOMMENDED PREREQUISITE: English II		

English III is the third year of a required four-year study. It is a Recommended Prerequisite for English IV. Instruction emphasizes all aspects of American literature. Composition work continues with expository writing. Each student must complete a research project. **This course is offered in the traditional classroom and through the Keller ISD Blended Learning program which allows students to complete some of the coursework off campus.**



ENGLISH III - AP		
GRADE: 11	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3220100	KISD: 1083	
RECOMMENDED PREREQUISITE:	English II	

AP Language and Composition emphasizes the analysis of a variety of literary and nonfiction texts with particular attention to the writer's style, diction, syntax, argumentation, and logic. Students reflect this analysis in compositions that use sophisticated syntax and vocabulary, effective use of proof, and control of the conventions of language. Emphasis is on wide reading and analytic response in timed essays in preparation for the Advanced Placement Exam in Language and Composition. Students enrolling in this class are expected to take the Advanced Placement Exam in May. A qualifying score on the AP test may enable students to be exempt from the composition class that many colleges require. **AP students prepare to take the Advanced Placement Exam in May for possible college credit. This course is offered in the traditional classroom and through the Keller ISD Blended Learning program which allows students to complete some of the coursework off campus.**

DUAL ENGLISH III TCC Comp 1301/1302		
GRADE: 11	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03220300	KISD: 1065	
PREREQUISITE:	REQUIRED TCC Admission Standards	

Students will receive both high school and college credit upon successful completion of the class. This is a college level class, which is designed for highly motivated students who are prepared to take a college course in high school. The course includes principles of composition and rhetorical skills necessary for clear, logical writing. Emphasis on writing as a process and an introduction to research will be covered. Students must purchase the books required for TCC – Composition I and II. Also, students must register and pay for the course through Tarrant County College.

ENGLISH IV		
GRADE: 12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03220400	KISD: 1093	
RECOMMENDED PREREQUISITE:	English III	

English IV is the final year of a required four-year study for the college bound student. Intense instruction emphasizes an in-depth study of British literature. Composition work continues with expository writing and argumentation. Each student must complete a senior research theme paper. **This course is offered in the traditional classroom and through the Keller ISD Blended Learning program which allows students to complete some of the coursework off campus.**

ENGLISH IV - AP		
GRADE: 12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3220200	KISD: 1113	
RECOMMENDED PREREQUISITE:	WEIGHTED: 10 pts. English II	

Using college level expectations, this course emphasizes wide reading and analysis of world literature including fiction, nonfiction, and poetry. Students analyze literary elements and writer's style related to purpose, audience, and theme. Literary analysis will also be a major focus of the composition strand. Students will use proof, advanced syntax, and vocabulary in compositions written on demand and using writing process. Students prepare to complete the Advanced Placement Exam in English Literature and Composition. **AP students prepare to take the Advanced Placement Exam in May for possible college credit. This course is offered in the traditional classroom and through the Keller ISD Blended Learning program which allows students to complete some of the coursework off campus.**

DUAL ENGLISH IV - TCC Brit Lit. I/II (2322, 2323)		
GRADE: 12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03220400	KISD: 1103	
PREREQUISITE:	REQUIRED TCC Admission Standards	

Students will receive both high school and college credit upon successful completion of the class. This is a college level class, which is designed for highly motivated students who are prepared to take a college course in high school. The course includes principles of composition and rhetorical skills necessary for clear, logical writing. Emphasis on writing as a process and an introduction to research will be covered. Selected significant works of British literature will also be studied, and may include the study of movements, schools, or periods. Students must purchase the books required for Composition I and II and British Literature I and II. Also, students must register and pay for the course through Tarrant County College.

## SHELTERED ENGLISH I-IV

GRADE: 9-12	CREDIT: 1
TEDS: 03220100	I KISD: 1125
TEDS: 03220200	II KISD: 1126
TEDS: 03220300	III KISD: 1127
TEDS: 03220400	IV KISD: 1128
PREREQUISITE: REQUIRED Placement test and/or LPAC recommendation	

Enrollment is limited to students indicated as English language learners in 9<sup>th</sup>-12<sup>th</sup> grades. Placement in Sheltered English I-IV will be determined through language proficiency tests and LPAC recommendations. Sheltered English courses align with the state and district requirements for English I-IV. Sheltered classes may substitute for the required English credits.

## HUMANITIES

GRADE: 9	CREDIT: 2
TEDS: 03220100/A3360100	KISD: 1203
RECOMMENDED PREREQUISITE: None	

This double-blocked course is a combination of English I Pre-AP and AP Human Geography. The goal of the class is to gain a better understanding of the world we live in by studying human and cultural geography through the lens of literacy. Students will become geo-literate by studying interactions, interconnections, and implications of the human-environment relationship, including topics such as effects of political change, struggles of ethnic minorities and women, land use by big agriculture and urbanization, and the role of climate change and environmental abuses. Units of study will be thematic in nature, delivered through rigorous literacy practices, including engaging with texts, constructing texts, focusing on language, investigating through research, and academic discussion. This course is focused on college-level expectations and curriculum. Students will earn 1 credit for Pre-AP English I and 1 credit for AP Human Geography. **Students prepare to take the Advanced Placement exam in May for possible college credit.**

## PHOTOJOURNALISM

GRADE: 9-12	CREDIT: .5
TEDS: 03230800	KISD: 1371
RECOMMENDED PREREQUISITE: None	

In this semester course, students are expected to plan, interpret, and critique visual representation, carefully examining their product for publication. They will become analytical consumers of media and technology to enhance their communication skills. Students will study the laws and ethical considerations that impact photography. Published photos of professional photojournalists, technology, and visual and electronic media are used as tools for learning as students create, clarify, critique, and produce effective visual representations. Students will refine and enhance their journalistic skills and plan, prepare, and produce photographs for a journalistic publication, whether print, digital, or online media.

## INDEPENDENT STUDY IN JOURNALISM

GRADE: 9-12	CREDIT: .5
TEDS 03231000	KISD: 1363
RECOMMENDED PREREQUISITE: None	

Students enrolled in Independent Study in Journalism write in a variety of forms for a variety of audiences and purposes. High school students enrolled in this course are expected to plan, draft, and complete written communications on a regular basis, carefully examining their copy for clarity, engaging language, and the correct use of the conventions and mechanics of written English. Students will become analytical consumers of media and technology to enhance their communication skills. Published work of professional journalists, technology, and visual and electronic media are used as tools for learning as students create, clarify, critique, write, and produce effective communications. Students enrolled in Independent Study in Journalism will refine and enhance their journalistic skills, research self-selected topics, plan, organize, and prepare a project(s).

### ADVANCED JOURNALISM - NEWSPAPER I - III

GRADE: 10-12	CREDIT: 1
TEDS: 03230140	I KISD: 13331
TEDS: 03230150	II KISD: 13332
TEDS: 03230160	III KISD: 13333
RECOMMENDED PREREQUISITE: Journalism/Photojournalism	

Students enrolled in Advanced Journalism: Newspaper I, II, III communicate in a variety of forms such as print, digital, or online media for a variety of audiences and purposes. High school students are expected to plan, draft, and complete written and/or visual communications on a regular basis, carefully examining their copy for clarity, engaging language, and the correct use of the conventions and mechanics of written English. In Advanced Journalism: Newspaper I, II, III, students are expected to become analytical consumers of media and technology to enhance their communication skills. In addition, students will apply journalistic ethics and standards. Published works of professional journalists, technology, and visual and electronic media are used as tools for learning as students create, clarify, critique, write, and produce effective communications. Students enrolled in Advanced Journalism: Newspaper I, II, III will refine and enhance their journalistic skills, research self-selected topics, and plan, organize, and prepare a project(s) in one or more forms of media.

### ADVANCED JOURNALISM - YEARBOOK I - III

GRADE: 10-12	CREDIT: 1
TEDS: 03230110	I KISD: 13531
TEDS: 03230120	II KISD: 13532
TEDS: 03230130	III KISD: 13533
RECOMMENDED PREREQUISITE: Journalism/Photojournalism	

Students enrolled in Advanced Journalism: Yearbook I, II, III communicate in a variety of forms such as print, digital, or online media for a variety of audiences and purposes. High school students are expected to plan, draft, and complete written and/or visual communications on a regular basis, carefully examining their copy for clarity, engaging language, and the correct use of the conventions and mechanics of written English. In Advanced Journalism: Yearbook I, II, III, students are expected to become analytical consumers of media and technology to enhance their communication skills. In addition, students will apply journalistic ethics and standards. Published works of professional journalists, technology, and visual and electronic media are used as tools for learning as students create, clarify, critique, write, and produce effective communications. Students enrolled in Advanced Journalism: Yearbook I, II, III will refine and enhance their journalistic skills, research self-selected topics, and plan, organize, and prepare a project(s) in one or more forms of media.

### ADVANCED BROADCAST JOURNALISM I - III

GRADE: 10-12	CREDIT: 1
TEDS: 03231900	KISD: 1313
TEDS: 03231901	KISD: 13231
TEDS: 03231902	KISD: 13232
RECOMMENDED PREREQUISITE: Journalism/Photojournalism	

Students need to be critical viewers, consumers, and producers of media. The ability to access, analyze, evaluate, and produce communication in a variety of forms is an important part of language development. High school students enrolled in this course will apply and use their journalistic skills for a variety of purposes. Students will learn the laws and ethical considerations that affect broadcast journalism; learn the role and function of broadcast journalism; critique and analyze the significance of visual representations; and learn to produce by creating a broadcast journalism product.

### D E B A T E I - III

GRADE: 9-12	CREDIT: 1
TEDS: 03240600	KISD: 1403
TEDS: 03240700	KISD: 1413
TEDS: 03240800	KISD: 1423
RECOMMENDED PREREQUISITE: Debate I	

Controversial issues arise in aspects of personal, social public, and professional life in modern society. Debate and argumentation are widely used to make decisions and reduce conflict. Students who develop skills in argumentation and debate become interested in current issues, develop sound critical thinking, and sharpen communication skills. They acquire life-long skills for intelligently approaching controversial issues.

## O R A L I N T E R P R E T A T I O N I - I I

GRADE: 10-12	CREDIT: 1
TEDS: 03240200 I	KISD: 1462
TEDS: 03240300 II	KISD: 1471
RECOMMENDED PREREQUISITE: Debate I	

Literature and its presentation are integral to understanding the cultural aspects of a society. Students in Oral Interpretation I-II will select, research, analyze, adapt, interpret, and perform literary texts as a communication art. Students focus on intellectual, emotional, sensory, and aesthetic levels of texts to attempt to capture the entirety of the author's work. Individual or group performances of literature will be presented and evaluated. Competitive events are required.

## C R E A T I V E   W R I T I N G

GRADE: 10-12	CREDIT: 1
TEDS: 03221200	KISD: 1163
RECOMMENDED PREREQUISITE: English II	

The study of creative writing allows high school students to earn one credit while developing versatility as a writer. Creative Writing, a rigorous composition course, asks high school students to demonstrate their skill in such forms of writing as fictional writing, short stories, poetry, and drama. All students are expected to demonstrate an understanding of the recursive nature of the writing process, effectively applying the conventions of usage and the mechanics of written English. The students' evaluation of their own writing as well as the writing of others ensures that students completing this course are able to analyze and discuss published and unpublished pieces of writing, develop peer and self-assessments for effective writing, and set their own goals as writers.

## A D V A N C E D C R E A T I V E   W R I T I N G

GRADE: 11-12	CREDIT: 1
TEDS: 03221500	KISD: 1164
RECOMMENDED PREREQUISITE: Creative Writing	

The study of creative writing allows high school students to earn one credit while developing versatility as a writer. Creative Writing, a rigorous composition course, asks high school students to demonstrate their skill in such forms of writing as fictional writing, short stories, poetry, and drama. All students are expected to demonstrate an understanding of the recursive nature of the writing process, effectively applying the conventions of usage and the mechanics of written English. The students' evaluation of their own writing as well as the writing of others ensures that students completing this course are able to analyze and discuss published and unpublished pieces of writing, develop peer and self-assessments for effective writing, and set their own goals as writers.

## I N D E P E N D E N T E N G L I S H   I - I I I

GRADE: 9-11	CREDIT: 1
TEDS: 03221800 I	KISD: 1133
TEDS: 03221810 II	KISD: 1134
TEDS: 03221820 III	KISD: 1135
PREREQUISITE: REQUIRED Placement test and/or LPAC recommendation	

Enrollment is limited to LEP indicated students in 9-11<sup>th</sup> grades that 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.

## P R A C T I C A L W R I T I N G   S K I L L S

GRADE: 12	CREDIT: 1
TEDS: 03221300	KISD: 861
PREREQUISITE: REQUIRED Placement test and/or LPAC recommendation	

Enrollment is limited to LEP indicated students in 12<sup>th</sup> 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.

**English Language Arts - Intervention**  
**Students are placed into these courses as needed by the campus administrator.**

**(1070) Reading I (1 Credit)**

Course Goal: To support students in meeting individual English goals necessary in achieving academic success; to support students in meeting English I EOC requirements.

Targeted students: Incoming freshmen who did not meet satisfactory performance on the 8<sup>th</sup> grade STAAR Reading Assessment, through multiple administrations.

Additional indicators: Unsatisfactory performance through a history of STAAR English assessments.

**(1071) Reading II (1 Credit)**

Course Goal: To support students in meeting individual English goals necessary in achieving academic success; to support students in meeting English II EOC requirements.

Targeted students: Incoming sophomores or juniors who have not met satisfactory performance on the English I or II EOC Assessment, through multiple administrations.

Additional indicators: Unsatisfactory performance through a history of STAAR English assessments and on the English I EOC Assessment.

**(1075) College Readiness and Study Skills (.5 Credit)**

Course Goal: To support students in meeting individual English goals necessary in achieving academic success; to support students in meeting English I and II EOC requirements.

Targeted students: Incoming juniors or seniors who have not met satisfactory performance on the English I and/or II EOC Assessment, through multiple administrations.

Additional indicators: Unsatisfactory performance through a history of STAAR English assessments and on the English I and/or II EOC Assessment.

**English – College and Career Readiness Intervention**  
**(TCC-TSI Course)**

**(1074) Integrated Reading and Writing (1 Credit)**

Course Goal: To support in meeting TSI requirements for English and to enter college and career coursework without remediation.

Targeted students: Incoming seniors who did not meet satisfactory performance (score < 30) in English as measured by TSI and not met satisfactory performance on multiple administrations of the English I and II EOC Assessment.

Additional indicators: Students need to have met satisfactory performance in English as demonstrated by elements of EOC success.

## *Mathematics*

Course Name	Credits	Grade Levels	Prerequisites
Algebra I	1	9	Grade 8 Mathematics
Algebra I Pre-AP	1	9	Grade 8 Mathematics
Algebraic Reasoning	1	10-12	Algebra I
Geometry	1	9-12	Algebra I
Geometry Pre-AP	1	9-12	Algebra I
Math Models with Applications	1	10-12	Algebra I
Algebra II	1	10-12	Algebra I
Algebra II Pre-AP	1	10-12	Algebra I
College Algebra—UT On Ramps	1	10-12	Algebra I, Geometry
Sheltered Math: Algebra I, Geometry, Algebra II, Algebraic Reasoning	1	9-12	Required Placement Test and/or LPAC recommendation
<b>Advanced Math Courses</b>			
Pre-Calculus	1	11-12	Algebra I, II, and Geometry
Pre-Calculus Pre-AP	1	11-12	Algebra I, II, and Geometry
Dual Pre-Calculus--UT On Ramps	1	11-12	Algebra I, II, and Geometry
Advanced Quantitative Reasoning	1	11-12	Geometry and Algebra II
Calculus	1	11-12	<i>Recommended</i> Pre-Calculus
AP Calculus AB	1	11-12	<i>Recommended</i> Pre-Calculus
AP Calculus BC	1	11-12	<i>Recommended</i> Pre-Calculus
Multivariable Calculus	.5	11-12	<i>Recommended</i> Calculus BC
Linear Algebra	.5	11-12	<i>Recommended</i> Multivariable Calculus
AP Statistics	1	11-12	<i>Recommended</i> Algebra II and Geometry
Dual Statistics--UT On Ramps	1	11-12	<i>Recommended</i> Algebra II and Geometry
Statistics and Business Decision Making	1	11-12	<i>Recommended</i> Accounting I and Algebra II

## High School Math Course Sequencing 2019-2020

Student levels are to be used by parents, teachers, and counselors to help make course decisions. It is strongly encouraged that parents and students consider the information under “Student Levels” when making course choices.

Student Levels	9th Grade	10th Grade	11th Grade	12th Grade
<b>Approaching Level:</b> <ul style="list-style-type: none"> <li>I failed my math class.</li> <li>I passed my Math STAAR.</li> </ul> <b>or</b> <ul style="list-style-type: none"> <li>I passed my math class.</li> <li>I failed my Math STAAR.</li> </ul> <b>or</b> <ul style="list-style-type: none"> <li>I passed my math class (70-75 average).</li> <li>I passed my Math STAAR at Approaches Grade Level.</li> </ul>	<i>Algebra I Required</i>	<i>Geometry and/or Algebraic Reasoning</i>	<i>Geometry, Algebra II, Algebraic Reasoning, or Math Models.</i>	<i>Algebra II or Advanced Quantitative Reasoning.</i>
		<i>Algebraic Reasoning, Algebra II, and Geometry</i> 2 years, self-paced, compacted course 10th & 11th or 11th & 12th		
<b>On Level:</b> <ul style="list-style-type: none"> <li>I passed my math class.</li> <li>I passed my Math STAAR at Meets Grade Level.</li> </ul>	<i>Algebra I Required</i>	<i>Geometry</i>	<b>Choose 1 course:</b> <ul style="list-style-type: none"> <li><i>Algebra 2</i></li> <li><i>OnRamps College Algebra</i></li> <li><i>Math Models</i></li> <li><i>Algebraic Reasoning</i></li> </ul>	<i>Algebra II, Pre-Calculus or Advanced Quantitative Reasoning, or Statistics</i>
	<i>Algebra I, Algebra II, and Geometry</i> 2 years, self-paced, compacted course		<i>Pre-Calculus or Advanced Quantitative Reasoning</i>	
<b>Beyond Level:</b> <ul style="list-style-type: none"> <li>I passed my Algebra 1 course in 8<sup>th</sup> grade.</li> <li>I passed my Algebra 1 EOC at Masters Grade Level.</li> </ul>	<i>Geometry Pre-AP</i>	<i>Algebra II Pre-AP</i> <b>or</b> <i>OnRamps College Algebra</i>	<b>Choose 1 course:</b> <ul style="list-style-type: none"> <li><i>Pre-Calculus Pre-AP</i></li> <li><i>Pre-Calculus OnRamps</i></li> <li><i>AP Statistics</i></li> <li><i>Statistics OnRamps</i></li> <li><i>Statistics (on-level)</i></li> </ul>	<i>Pre-Calculus, Calculus, AP Statistics or Statistics OnRamps</i>
<b>Accelerated Math (Option 1):</b> <ul style="list-style-type: none"> <li>I passed my math class with an 80% or higher.</li> <li>I passed my Math STAAR at Masters Grade Level.</li> </ul>	<i>Algebra I Pre-AP</i>	<i>Geometry Pre-AP</i>	<i>Accelerated Algebra II/ Pre-Calculus</i> <b>or</b> <i>OnRamps College Algebra</i>	<i>Calculus, AP Statistics, Statistics OnRamps or Pre-Calculus</i>
<b>Accelerated Math (Option 2):</b> <ul style="list-style-type: none"> <li>I passed my Algebra 1 Pre-AP course in 8<sup>th</sup> grade with an 80% or higher.</li> <li>I passed my Algebra 1 EOC at Masters Grade Level.</li> </ul>	<i>Geometry Pre-AP</i>	<i>Accelerated Algebra II/ Pre-Calculus</i>	<i>Calculus, AP Statistics or Statistics OnRamps</i>	<i>Linear Algebra/ Multivariable Calculus</i>  (Students who have completed Calculus AB/BC)

\*Calculus Course the KISD offers: Calculus (equivalent to Calculus I in college), AP Calculus AB (equivalent to Calculus I in college), AP Calculus BC (equivalent to Calculus I and II in college), and Multivariable Calculus (equivalent to Calculus III in college).



ALGEBRA I		
GRADE: 9	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03100500		KISD: 2003
PREREQUISITE: Grade 8 Mathematics		

Algebra I students build on earlier math experiences, deepening their understanding of relations and functions and expanding their repertoire of familiar linear and quadratic functions, among others. Students learn to combine functions, express functions in equivalent forms, compose functions, and find inverses where possible. Algebra I will provide students with insights into mathematical abstraction and structure through the content strands Foundations for Functions, Linear Functions, and Quadratics and other Non-Linear Functions. It is extremely important for students to learn Algebra I standards in depth, as it is a foundation for other math courses.

ALGEBRA I PRE - AP		
GRADE: 9	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03100500		KISD: 2013
PREREQUISITE:		WEIGHTED: 10 pts.
Grade 8 Mathematics		

There is a strong expectation that all of the students in a Pre-AP math program are preparing for Advanced Placement Calculus and/or Advanced Placement Statistics. Algebra I Pre-AP is designed to prepare students who will be accelerating their math coursework by taking concurrently Algebra II Pre-AP and Geometry Pre-AP in grade 10, or Geometry Pre-AP and Pre-Calculus Pre-AP in grade 11 in order to take Advanced Placement Calculus or Advanced Placement Statistics in their 11<sup>th</sup> or 12<sup>th</sup> grade year of high school. Algebra I Pre-AP students build on earlier math experiences, deepening their understanding of relations and functions and expanding their repertoire of familiar linear and quadratic functions, among others. Algebra I will provide students with insights into mathematical abstraction and structure through the content strands Foundations for Functions, Linear Functions, and Quadratics and other Non-Linear Functions. It is extremely important for students to learn Algebra I standards in depth, as it is a foundation for other math courses.

ALGEBRAIC REASONING	
GRADE: 10-12	CREDIT: 1
TEDS: 03102540	KISD: 2424
PREREQUISITE: Algebra I	

In Algebraic Reasoning, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I, continue with the development of mathematical reasoning related to algebraic understandings and processes, and deepen a foundation for studies in subsequent mathematics courses. Students will broaden their knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build to workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets.

GEOMETRY		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03100700		KISD: 2213
PREREQUISITE: Algebra I		

High school students develop facility with a broad range of ways of representing geometric ideas – including coordinates, networks, transformations – that allow multiple approaches to geometric problems and that connect geometric interpretations to other contexts. Students learn to recognize connections among different representations, thus enabling them to use these representations flexibly. Students will expand their understanding through other mathematical experiences through the Geometry content strands of Geometric Structure, Geometric Patterns, Dimensionality and the Geometry of Location, Congruence and the Geometry of Size, and Similarity and the Geometry of Shape.



G E O M E T R Y   P R E - A P		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03100700		KISD: 2223
PREREQUISITE: Algebra I		WEIGHTED: 10 pts.

There is a strong expectation that all of the students in a Pre-AP math program are preparing for Advanced Placement Calculus and/or Advanced Placement Statistics. Geometry Pre-AP is designed to prepare students who will be accelerating their math coursework by taking concurrently Algebra II Pre-AP and Geometry Pre-AP in grade 10, or Geometry Pre-AP and Pre-Calculus Pre-AP in grade 11 in order to take Advanced Placement Calculus or Advanced Placement Statistics in their 11<sup>th</sup> or 12<sup>th</sup> grade year of high school. Geometry Pre-AP includes the basic understanding of the Geometry curriculum with added rigor, depth, global connections, multiple representations (verbal, algebraic, numerical, graphical, physical), and expectations of sophistication in student work.

M A T H   M O D E L S W I T H A P P L I C A T I O N S	
GRADE: 10-12	CREDIT: 1
TEDS: 03102400	KISD: 2123
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. Students will select from tools such as physical objects; manipulatives; technology, including graphing calculators, data collection devices, and computers; and paper and pencil and from methods such as algebraic techniques, geometric reasoning, patterns, and mental math to solve problems. *Math Models with Applications must be taken prior to Algebra II to receive mathematics credit under the RHSP. Math Model with Applications cannot count as one of the four math credits under the DAP.*

A L G E B R A   I I		
GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03100600		KISD: 2043
PREREQUISITE: Algebra I		

In Algebra II, students build on Algebra I and Geometry experiences, both deepening their understanding of relations and functions and expanding their repertoire of familiar functions. Students use technological tools to represent and study the behavior of polynomial, exponential, rational, and periodic functions, among others. Students learn to combine functions, express them in equivalent forms, compose functions, and find inverses where possible. Students will come to understand the concept of parent functions and learn to recognize the characteristics of various parent and familiar functions. Algebra II provides students with insights into mathematical abstraction and structure through the content strands of Foundations for Functions, Algebra and Geometry, Quadratic and Square Root Functions, Rational Functions, and Exponential and Logarithmic Functions. Connections will be made between algebra and geometry and the tools of one will be used to help solve problems in the other.

A L G E B R A   I I   P R E - A P		
GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03100600		KISD: 2033
PREREQUISITE: Algebra I		WEIGHTED: 10 pts.

There is a strong expectation that all of the students in a Pre-AP math program are preparing for Advanced Placement Calculus and/or Advanced Placement Statistics. Algebra II Pre-AP is designed to prepare students who will be taking Advanced Placement Calculus or Advanced Placement Statistics in their 11<sup>th</sup> or 12<sup>th</sup> grade year of high school. Algebra II Pre-AP includes the basic understanding of the Algebra II curriculum with added rigor, depth, global connections, multiple representations (verbal, algebraic, numerical, graphical, physical), and expectations of sophistication in student work.

## COLLEGE ALGEBRA UT ON RAMP S

GRADE: 10-12	CREDIT: 1
TEDS: 03100600	KISD: 2318
PREREQUISITE: Algebra I and Geometry	

In this dual credit course, students deepen their critical thinking skills and develop their ability to persist through challenges as they explore function families: linear, absolute value, quadratic, polynomial, radical, rational, exponential, and logarithmic. Students analyze data algebraically and with technology while developing their knowledge of properties of functions, matrices and systems of equations, and complex numbers. The pedagogy of the course, inquiry-based learning, encourages students to take an active role in the construction of their learning. This learning will be accomplished by abstraction, generalization, problem-solving, and modeling. Students will experience high quality curriculum designed by the faculty at The University of Texas at Austin and delivered by Keller ISD teachers. Students can earn three hours of UT credit, with feedback and assessment provided by UT course staff.

## SHELTERED MATH I - I V

		CREDIT
GRADE: 9-12		: 1
TEDS: 03100500	Algebra I	KISD: 2025
TEDS: 03100700	Geometry	KISD: 2026
TEDS: 03100600	Algebra II	KISD: 2027
TEDS: 03102540	Algebraic Reasoning	KISD: 2028
PREREQUISITE: REQUIRED Placement test and/or LPAC recommendation		

Enrollment is limited to students indicated as English language learners in 9<sup>th</sup>-12<sup>th</sup> grades. Placement in Sheltered Math I-IV will be determined through language proficiency tests and LPAC recommendations. Sheltered Math courses align with the state and district requirements for Math I-IV. Sheltered classes may substitute for the required Math credits.

## PRE - CALCULUS

GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03101100		KISD: 2303
PREREQUISITE: Algebra I, II, and Geometry		

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. Students systematically work with functions and their multiple representations. The study of pre-calculus deepens students' mathematical understanding and fluency with algebra and trigonometry and extends their ability to make connections and apply concepts and procedures at higher levels. Students investigate and explore mathematical ideas, develop multiple strategies for analyzing complex situations, and use technology to build understanding, make connections between representations, and provide support in solving problems.

## PRE - CALCULUS PRE - A P

GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03101100		KISD: 2313
PREREQUISITE: WEIGHTED: 10 pts. Algebra I, II, and Geometry		

There is a strong expectation that all of the students in a Pre-AP math program are preparing for Advanced Placement Calculus and/or Advanced Placement Statistics. Pre-Calculus Pre-AP is designed to prepare students who will be taking Advanced Placement Calculus or Advanced Placement Statistics in their 11<sup>th</sup> or 12<sup>th</sup> grade year of high school. Pre-Calculus Pre-AP includes the basic understanding of the Pre-Calculus curriculum with added rigor, depth, global connections, multiple representations (verbal, algebraic, numerical, graphical, physical), and expectations of sophistication in student work.

## DUAL PRE-CALCULUS UT ON RAMP

GRADE: 10-12	CREDIT: 1
TEDS: 03101100	KISD: 2314
PREREQUISITE: Algebra I, II, and Geometry	

Students will deepen and extend their knowledge of functions, graphs, and equations from their high school algebra and geometry courses so they can successfully work with the concepts in a rigorous university-level Calculus course. This course is designed to push students well beyond “drill and kill” type exercises, with an emphasis on unpacking mathematical definitions and making logical arguments to their peers. The course is divided into seven units; each unit consists of a series of explorations designed to engage students and empower them to develop their problem-solving skills. In each exploration students will create connections with prior concepts in developing the current topic. Students will experience high quality curriculum designed by the faculty at The University of Texas at Austin and delivered by Keller ISD teachers. Students can earn three hours of UT credit, with feedback and assessment provided by UT course staff.

## ADVANCED QUANTITATIVE REASONING

GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03102510		KISD: 2423
PREREQUISITE: Algebra II		

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, probability, statistical analysis, finance, mathematical selection, and modeling with algebra, geometry, trigonometry, and discrete mathematics.

## CALCULUS

GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03102500		KISD: 2322
RECOMMENDED PREREQUISITE: Pre-Calculus		

Calculus is designed for college bound students who have taken on level Pre-Calculus. Topics include elementary functions, limits, differential calculus and integral calculus. Applications include problems from business, economics, life sciences and social sciences. Students will also review many college algebra skills to help prepare them for college math placement tests.

## AP CALCULUS AB

GRADE: 12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3100101		KISD: 2333
RECOMMENDED PREREQUISITE: Pre-Calculus		
		WEIGHTED: 10 pts.

This course prepares students for the College Board AP Calculus AB Exam for possible college credit (1<sup>st</sup> semester calculus). AP Calculus AB is primarily concerned with developing the students’ understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. Calculus AB topics include Functions, Graphs and Limits; Derivatives; and Integrals. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

## AP CALCULUS BC

GRADE: 12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3100102		KISD: 2343
RECOMMENDED PREREQUISITE: Pre-Calculus		
		WEIGHTED: 10 pts.

This course prepares students for the College Board AP Calculus BC Exam for possible college credit (1<sup>st</sup> and 2<sup>nd</sup> semester Calculus). Students explore all topics covered in AP Calculus AB plus additional topics such as parametric, polar, and vector functions and derivatives, L’Hospital’s Rule, Applications of Integrals, and Polynomial Approximations and Series. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

\*AP Calculus AB and BC are traditionally double-blocked on the high school campus to support advanced level students and their individualized schedules.

## MULTIVARIABLE CALCULUS

GRADE: 11-12	CREDIT: .5
TEDS: N1110018	KISD: 2363
PREREQUISITE: Calculus BC	WEIGHTED: 10 pts.

The concepts learned in the single variable calculus course and extends them to multiple dimensions. Topics discussed include: vector algebra; applications of the dot and cross product; equations of lines, planes, and surfaces in space; converting between rectangular, cylindrical, and spherical coordinates; continuity, differentiation, and integration of vector-valued functions; application of vector-valued functions such as curvature, arc length, speed, velocity, and acceleration; continuity, limits, and derivatives of multivariable functions, tangent planes and normal lines of surfaces; applying double and triple integrals to multivariable functions to find area, volume, surface area, mass, center of mass, and moments of inertia; vector fields; finding curl and divergence of vector fields; line integrals; conservative vector fields, conservation of energy. This course counts as a weighted  $\frac{1}{2}$  credit and is to be taken the first semester with Linear Algebra being the second semester course. Calculus BC is the prerequisite.

## LINEAR ALGEBRA

GRADE: 11-12	CREDIT: .5
TEDS: N1110021	KISD: 2373
PREREQUISITE: Multivariable Calculus	WEIGHTED: 10 pts.

Students are introduced to linear algebra. This is probably the student's first extensive encounter with postulation or axiomatic mathematics. However, the emphasis is on the computational and geometrical aspects of the subject, keeping the abstractions down to a minimum. Students begin with vectors and matrices and progress to systems of linear equations before gradually becoming acquainted with vector spaces and linear transformations. This course counts as a weighted  $\frac{1}{2}$  credit and is to be taken the second semester with Multivariable Calculus being the first semester course. Multivariable Calculus is the prerequisite.

## AP STATISTICS

GRADE: 10-12	<input checked="" type="checkbox"/> CREDIT: 1
TEDS: A3100200	KISD: 2403
RECOMMENDED PREREQUISITE: Algebra 2 and Geometry	WEIGHTED: 10 pts.

This course prepares students for the College Board AP Statistics Exam for possible college credit (1 semester, non-Calculus based Statistics). AP Statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: Exploring Data: Describing patterns and departures from patterns, Sampling and Experimentation: Planning and conducting a study, Anticipating Patterns: Exploring random phenomena using probability and simulation, Statistical Inference: Estimating population parameters and testing hypotheses. **AP students prepare to take the Advanced Placement Exam in for possible college credit.**

## DUAL STATISTICS UT ON RAMPS

GRADE: 11-12	CREDIT: 1
TEDS: 03102530	KISD: 2414
PREREQUISITE: Algebra II and Geometry	

OnRamps Statistics is a dual-enrollment data analysis course for high school juniors and seniors seeking to develop the quantitative reasoning skills and habits of mind necessary to succeed in the higher education environment. This course will target conceptual understanding and hone highly relevant mathematical skills through scaffolded introduction to statistical methodologies, informal game play, and strategic lab exercises that engage students in hands-on analysis of real data. Valuable programming and coding skills are acquired as a means to conducting these analyses, giving students a solid foundation in data science. Team-based problem solving is highly valued, and assessments will guide students through self-reflective analyses of their own preparedness and depth of understanding. Students will experience high-quality curriculum designed by the faculty at The University of Texas at Austin. Students can earn three hours of UT credit with feedback and assessment provided by UT course staff. This course counts as 1 credit. Algebra II and Geometry are the prerequisites.

## STATISTICS AND BUSINESS DECISION MAKING

GRADE: 11-12	CREDIT: 1
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TEDS: 13016900 KISD: 81621  
 RECOMMENDED PREREQUISITE: Accounting  
 I and Algebra II

Students will use a variety of graphical and numerical techniques to analyze patterns and departures from patterns to identify and manage risk that could impact an organization. Students will use probability as a tool for anticipating and forecasting data within business models to make decisions. Students will explore careers in the area of risk management and will learn to plan, monitor, and control day-to-day activities to enable continued functioning in finance. Students will analyze accounting systems to examine financial stability. Students will explain the role and impact of dividends in corporate finance. Students will access, process, maintain, evaluate, and disseminate, financial information to assist business decision-making.

## **Mathematics – Intervention**

**Students are placed into these courses as needed by the campus administrator.**

### **(2501) Independent Study in Math I (1 Credit)**

Course Goal: To support students in meeting individual math goals necessary in achieving academic success; to support students in meeting Algebra I EOC requirements.

Targeted students: Incoming freshmen who did not meet satisfactory performance on the 8<sup>th</sup> grade STAAR Math Assessment, through multiple administrations.

Additional indicators: Unsatisfactory performance through a history of STAAR math assessments.

### **(2502) Independent Study in Math II (1 Credit)**

Course Goal: To support students in meeting individual math goals necessary in achieving academic success; to support students in meeting Algebra I EOC requirements.

Targeted students: Incoming sophomores who have not met satisfactory performance on the Algebra I EOC Assessment, through multiple administrations.

Additional indicators: Unsatisfactory performance through a history of STAAR math assessments and on the Algebra I EOC Assessment.

## **Mathematics – College and Career Readiness Intervention (TCC-TSI Course)**

### **(2503) Developmental Math (1 Credit)**

Course Goal: To support in meeting TSI requirements for math and to enter college and career coursework without remediation.

Targeted students: Incoming seniors who did not meet satisfactory performance (score < 30) in math as measured by TSI and not met satisfactory performance on multiple administrations of the Algebra I EOC Assessment.

Additional indicators: Students need to have met satisfactory performance in math as demonstrated by elements of EOC success.

## *Science*

Course Name	Credits	Grade Levels	Recommended Prerequisites
Integrated Physics and Chemistry	1	9-10	None
Biology	1	9-11	None
Biology Pre-AP	1	9-11	None
AP Biology	1	10-12	Biology, Chemistry
Chemistry	1	10-12	Required One science and Algebra I
Chemistry Pre-AP	1	10-12	Required One science and Algebra I
AP Chemistry	1	11-12	Chemistry
Physics	1	9-12	Algebra I
Physics Pre-AP	1	9-12	Algebra I
AP Physics I	1	10-12	Geometry
AP Physics II	1	11-12	Physics and concurrently Pre-Calculus
AP Physics C: Electricity and Magnetism	1	11-12	Physics and concurrently Calculus
AP Physics C: Mechanics	1	11-12	Physics and concurrently Calculus
Principles of Technology I	1	10-12	Required One credit in science and Algebra I
Sheltered Science: IPC, Biology, Chemistry, Physics	1	9-12	Required Placement Test and/or LPAC recommendation
<b>Advanced Science Courses</b>			
Advanced Animal Science	1	11-12	Biology and advanced science
Anatomy and Physiology of Human Systems	1	10-12	Three credits of science
Aquatic Science	1	10-12	Chemistry or concurrent enrollment Required Biology
Astronomy	1	11-12	One credit in science
AP Environmental Science	1	11-12	Biology, physical science and Algebra I
Environmental Systems	1	11-12	Biology and one credit of a physical science
Earth and Space Science	1	11-12	Required 3 credits of science and 3 credits of mathematics (one of which may be taken concurrently)
Forensic Science	1	11-12	Principles of Law and Law Enforcement I Required Biology, Chemistry
Medical Microbiology	1	11-12	Three credits of science
Pathophysiology	1	11-12	Three credits of science



## Recommended Science Sequence

	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
<b>4 Credits</b>	Biology or Biology Pre-AP	Physical Science <i>*See Appendix A</i>	Advanced Science <i>*See Appendix A</i>	Advanced Science <i>*See Appendix A</i>

### INTEGRATED PHYSICS AND CHEMISTRY

GRADE: 9-10 ☒ CREDIT: 1

TEDS: 03060201 KISD: 3003

PREREQUISITE: None

In Integrated Physics and Chemistry, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry with the following topics: force, motion, energy, and matter.

### BIOLOGY

GRADE: 9-11 ☒ CREDIT: 1

TEDS: 03010200 KISD: 3103

PREREQUISITE: None

In Biology, students conduct field and laboratory investigations, use specific methods during investigations and make informed decisions using critical thinking and scientific problem solving. Students in Biology study a variety of topics that include: structures and 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, living systems, homeostasis, ecosystems and the environment.

### BIOLOGY PRE - AP

GRADE: 9-10 ☒ CREDIT: 1

TEDS: 03010200 KISD: 3113

PREREQUISITE: None WEIGHTED: 10 pts.

Pre-AP Biology is a comprehensive study of biology, ecology, evolution, biochemical pathways, organic and biochemistry, cell biology, genetics, molecular biology, microbiology (which includes invertebrates), taxonomy, embryogenesis, homeostasis and human body systems (immune, lymphatic, digestive, and circulatory system). Students will be expected to show commitment to Pre-AP curriculum and be motivated to utilize higher level thinking skills. The course will also include special projects and a more in-depth study of biological concepts. Pre-AP students should expect to continue in the AP program with a goal of taking the AP test.

### AP BIOLOGY

GRADE: 10-12 ☒ CREDIT: 1 –

TEDS: A3010200 KISD: 3123

RECOMMENDED PREREQUISITE:  
Biology, Chemistry WEIGHTED: 10 pts.

This course is a comprehensive study of advanced biology designed to prepare students to take the AP Biology Exam. The class covers material a student would encounter in a freshman level college biology class. Special emphasis will be placed on the principles and processes of biology along with understanding the means by which biological information is collected and interpreted. The content of the course will meet College Board standards. Students planning to take the Biology AP Exam would benefit by enrolling in Anatomy and Physiology also. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

### CHEMISTRY

GRADE: 10-12 ☒ CREDIT: 1

TEDS: 03040000 KISD: 3303

REQUIRED PREREQUISITE: One science and Algebra I

In Chemistry, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that included characteristics of matter, use of the Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermochemistry, and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives.

C H E M I S T R Y   P R E - A P		
GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03040000		KISD: 3313
REQUIRED PREREQUISITE One science and Algebra I		
		WEIGHTED: 10 pts.

Chemistry Pre-AP is a comprehensive study of chemistry, scientific method, lab safety, scientific measurements, properties of matter, atomic structure and its history, quantum numbers, periodic table characteristics and trends, chemical bonding, gas laws, nomenclature of compounds, moles, chemical reactions, stoichiometry, aqueous mixtures, acid/bases and neutralization reactions. The course will be lab based and students will be asked to analyze and evaluate data from lab investigation. Chemistry Pre-AP covers additional rigorous College Board topics that require critical thinking and a higher level of math skills, such as solving equations for variables, exponential and mathematical abstraction. Students should expect a challenging Pre-AP curriculum with the expectation of moving on to AP Chemistry and taking the AP test.

A P   C H E M I S T R Y		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3040000		KISD: 3333
RECOMMENDED PREREQUISITE Chemistry, Algebra II		
		WEIGHTED: 10 pts.

This course is a comprehensive study of advanced chemistry designed to prepare students to take the Chemistry AP Exam. The class covers most of the material a student would encounter in a freshman level college chemistry course. Special emphasis is placed on atomic structure and bonding, thermochemistry, kinetics, equilibrium and electrochemistry. The content of the course will meet College Board standards. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

P H Y S I C S		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03050000		KISD: 3403
RECOMMENDED PREREQUISITE: Algebra I		

In Physics, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion, changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics. Students who successfully complete Physics will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with colleagues, and develop critical thinking skills.

P H Y S I C S   P R E - A P		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03050000		KISD: 3413
RECOMMENDED PREREQUISITE: Algebra I		
		WEIGHTED: 10 pts.

Physics Pre-AP is a comprehensive study of physics that studies laws of motion, changes within physical systems, and conservation of energy and momentum; forces; thermodynamics; waves; and atomic, nuclear, and quantum physics. Physics Pre-AP covers additional rigorous College Board topics that require critical thinking and a higher level of math skills. Students will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, and develop critical thinking skills. Students should expect a challenging Pre-AP curriculum with the expectation of moving on to AP Physics and taking the AP test.

A P   P H Y S I C S   I		
GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3050003		KISD: 3443
RECOMMENDED PREREQUISITE Geometry:		
		WEIGHTED: 10 pts.

Algebra-Based is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**



A P P H Y S I C S   I I		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3050004		KISD: 3453
RECOMMENDED PREREQUISITE Physics, Algebra I, Algebra 2, Geometry, Calculus		
WEIGHTED: 10 pts.		

Algebra-Based is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

A P P H Y S I C S   C : E L E C T R I C I T Y   A N D M A G N E T I S M		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3050005		KISD: 3435
RECOMMENDED PREREQUISITE Physics, Algebra I, Algebra II, Geometry, concurrent Calculus		
WEIGHTED: 10 pts.		

AP Physics C: Electricity and Magnetism is calculus-based, appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus is used throughout the course. The course should prepare students for successful completion of the AP Physics C Exam. The content of the course will meet College Board standards. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.** Class is taught at the Keller Center for Advanced Learning.

A P P H Y S I C S   C : M E C H A N I C S		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3050006		KISD: 3434
RECOMMENDED PREREQUISITE Physics, Algebra I, Algebra II, Geometry, concurrent Calculus		
WEIGHTED: 10 pts.		

AP Physics C: Mechanics is calculus-based, appropriate for students planning to specialize or major in physical science or engineering. The course explores topics such as kinematics; Newton's laws of motion; work, energy and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. Introductory differential and integral calculus is used throughout the course. The course should prepare students for successful completion of the AP Physics C Exam. The content of the course will meet College Board standards. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

P R I N C I P L E S O F T E C H N O L O G Y		
GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 13037100		KISD: 3553
REQUIRED PREREQUISITE: One credit of high school science and Algebra I.		

In Principles of Technology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Various systems will be described in terms of space, time, energy, and matter. Students will study a variety of topics that include laws of motion, conservation of energy, momentum, electricity, magnetism, thermodynamics, and characteristics and behavior of waves. To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b)(2)(C) of this title (relating to Description of a Required Secondary Curriculum).

S H E L T E R E D S C I E N C E   I - I V		
GRADE: 9-12		CREDIT: 1
TEDS: 03060201	IPC	KISD: 3028
TEDS: 03010200	Biology	KISD: 3025
TEDS: 03040000	Chemistry	KISD: 3026
TEDS: 03050000	Physics	KISD: 3027
PREREQUISITE: REQUIRED Placement test and/or LPAC recommendation		

Enrollment is limited to students indicated as English language learners in 9<sup>th</sup>-12<sup>th</sup> grades. Placement in Sheltered Science I-IV will be determined through language proficiency tests and LPAC recommendations. Sheltered Science courses align with the state and district requirements for Science I-IV. Sheltered classes may substitute for the required Science credits.

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## ADVANCED ANIMAL SCIENCE

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GRADE: 11-12	CREDIT: 1
TEDS: 13000700	KISD: 81106
RECOMMENDED PREREQUISITE: one credit of an agriculture class	

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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.

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## ANATOMY AND PHYSIOLOGY OF HUMAN SYSTEMS

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GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 13020600		KISD: 3203
RECOMMENDED PREREQUISITE: Biology and a second science credit		

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This course offers a comprehensive study of the structures and functions of the human body. It will include dissections and the study of the organization of organs and organ systems. Students will utilize critical thinking skills and scientific problem solving as they conduct lab investigations. To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b)(2)(C) of this title (relating to Description of a Required Secondary Curriculum).

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## AQUATIC SCIENCE

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GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03030000		KISD: 3513
RECOMMENDED PREREQUISITE: concurrent enrollment in Chemistry REQUIRED Biology		

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In Aquatic Science, students study the interactions of biotic and abiotic components in aquatic environments, including impacts on aquatic systems. Investigations and fieldwork in this course may emphasize fresh water or marine aspects of aquatic science depending primarily upon the natural resources available for study near the school. Students who successfully complete Aquatic Science will acquire knowledge about a variety of aquatic systems, conduct investigations and observations of aquatic environments, work collaboratively with peers, and develop critical thinking and problem solving skills.

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## ASTRONOMY

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GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03060100		KISD: 3503
RECOMMENDED PREREQUISITE: One credit in science		

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In Astronomy, students conduct laboratory and field investigations, use scientific methods, and make informed decisions using critical thinking and scientific problem solving. Students study the following topics: astronomy in civilization, patterns and objects in the sky, our place in space, the moon, reason for the seasons, planets, the sun, stars, galaxies, cosmology, and space exploration. Students who successfully complete Astronomy will acquire knowledge within a conceptual framework, conduct observations of the sky, work collaboratively, and develop critical thinking skills.

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## EARTH AND SPACE SCIENCE

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GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03060200		KISD: 3573
REQUIRED PREREQUISITE: Three credits of science and math (two of which can be taken concurrently)		

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Earth and Space Science is a capstone course designed to build on students' prior scientific and academic knowledge and skills to develop understanding of Earth's system in space and time. ESS has three strands used throughout each of the three themes: systems, energy, and relevance.

A P E N V I R O N M E N T A L S C I E N C E		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3020000		KISD: 3543
RECOMMENDED PREREQUISITE: Biology, physical science, Algebra I		
		WEIGHTED: 10 pts.

This course is designed to provide students with the scientific principles, concepts, and methodologies required to understand the inter-relationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing the environmental problems.

**AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

E N V I R O N M E N T A L S Y S T E M S		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03020000		KISD: 3533
RECOMMENDED PREREQUISITE: Biology and one credit of a physical science		

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

F O R E N S I C   S C I E N C E		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 13029500		KISD: 82420
RECOMMENDED PREREQUISITE: Principles of Law and Law Enforcement I		
REQUIRED Biology, Chemistry		

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

M E D I C A L M I C R O B I O L O G Y		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 13020700		KISD: 81821
RECOMMENDED PREREQUISITE: three credits of science.		

This science elective course is designed to explore medical based microbiology. The student will discover relationships between microbes and health maintenance as well as the role of microbes in infectious diseases. To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b)(2)(C) of this title (relating to Description of a Required Secondary Curriculum). Class is taught at the Keller Center for Advanced Learning.

P A T H O P H Y S I O L O G Y		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 13020800		KISD: 81822
RECOMMENDED PREREQUISITE: three credits of science.		

In this course students conduct laboratory investigations and fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving. Students study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of diseases. Students will differentiate between normal and abnormal physiology. To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b)(2)(C) of this title (relating to Description of a Required Secondary Curriculum). Class is taught at the Keller Center for Advanced Learning.

### ***Recommended Social Studies Sequence***

	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade		11 <sup>th</sup> Grade		12 <sup>th</sup> Grade
	Course Name	Credits	Grade Levels	Recommended Prerequisites		
	World Geography or World History	World History or World History	US History or AP US History	None	None	Government/ Economics or
	Pre-AP AP	AP World History	AP US History	None	None	AP Government/ AP Macroeconomics
	AP Human Geography	1	9-12	None	None	or Dual Government/ Economics
<b>4 Credits</b>	AP World History	1	10	None		
	United States History	1	11	None		
	United States History Blended	1	11	None		
	AP United States History	1	11	None		
	Dual United States History - TCC US History 1301/1302	1	11		Required TCC Admission Standards	
	United States Government	.5	12	None		
	United States Government Blended	.5	12	None		
	AP United States Government and Politics	.5	12	None		
	Dual United States Government - TCC Government 2305	.5	12		Required TCC Admission Standards	
	Economics	.5	12	None		
	Economics Blended	.5	12	None		
	AP Economics (Macroeconomics)	.5	12	None		
	AP Economics (Macroeconomics) Blended	.5	12	None		
	Dual Principles of Economics – TCC Economics 2301	.5	12		Required TCC Admission Standards	
<b>Social Studies Elective Courses</b>						
	Humanities	2	9	None		
	AP Comparative Government and Politics	.5	12	None		
	AP Economics (Microeconomics)	.5	12	None		
	AP Microeconomics Blended	.5	12	None		
	AP European History	1	11-12	None		
	Psychology	.5	11-12	None		
	AP Psychology	1	11-12	None		
	Sociology	.5	11-12	None		
	Personal Financial Literacy (also available online)	.5	10-12	None		

#### **WORLD GEOGRAPHY**

GRADE: 9 ☒ CREDIT: 1

TEDS: 03320100 KISD: 4203

PREREQUISITE: None
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Integrating the eight strands of the Texas Essential Knowledge and Skills for social studies, students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major land forms, climates, and ecosystems and their interrelationships; the political, economics, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of world population; relationships among people, places, and environments; and the concept of region. Students compare how components of culture shape the characteristics of regions and analyze the impact of technology and human modifications on the physical environment. Students use problem solving and decision-making skills to ask and answer geographic questions.

WORLD GEOGRAPHY PRE - AP		
GRADE: 9	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03320100		KISD: 4223
PREREQUISITE: None		WEIGHTED: 10 pts.

Pre-AP World Geography is designed for mastery of the Texas Essential Knowledge and Skills as well extension beyond this mastery. In this course, critical thinking and analytical skills will be utilized in various projects including interpretation of primary and secondary source materials. Students will use their knowledge of spatial relationships, systematic physical and human processes and the interaction between people and their environment to make intelligent decisions as citizens.

AP HUMAN GEOGRAPHY		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3360100		KISD: 4501
PREREQUISITE: None		WEIGHTED: 10 pts.

The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use and alterations of the earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. AP Human Geography can be substituted for World Geography. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

WORLD HISTORY		
GRADE: 10	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03340400		KISD: 4103
PREREQUISITE: None		

World History is a global study of man's achievements from the beginning of prehistoric times to the present. Special emphasis is given to cultural patterns that have resulted from the interrelationships of geographic, social, economic, and political factors.

AP WORLD HISTORY		
GRADE: 10	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3370100		KISD: 4123
PREREQUISITE: None		WEIGHTED: 10 pts.

The AP World History is equivalent to an introductory college course in world history and is taught with a college level text. The purpose of this course is to develop a greater understanding of the development of world societies as they develop and interact through the ages. Emphasis will be placed on a combination of selective factual knowledge and appropriate analytical skills. There will be a focus on a variety of themes that collectively describe the human experience and issues of social structure and conditions of men and women. Studies will include routes of exchange and basic economic, political and social systems. A Special Topics class may be encouraged. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

UNITED STATES HISTORY		
GRADE: 11	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03340100		KISD: 4003
PREREQUISITE: None		

United States History is a study of the political, social, and economic events from Reconstruction 1877 to the present. Emphasis will be placed on significant individuals, issues, ideas and events that affect our country's history, present and future. In addition, students will learn how geography influences historical developments, economic development and growth; understand the nation's social, cultural and political development as the United States emerged as a world power and the relationship of the United States to the other nations of the world. **This course is offered in the traditional classroom and through the Keller ISD Blended Learning program which allows students to complete some of the coursework off campus.**

AP UNITED STATES HISTORY		
GRADE: 11	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3340100		KISD: 4023
PREREQUISITE: None		WEIGHTED: 10 pts.

The Advanced Placement United States History course is equivalent to an introductory course in United States History and is taught with a college level text. The purpose of this course is to develop a greater understanding of the development of United States through analytical skills and factual knowledge of the time period. Emphasis will be placed on assessment of historical materials and its relevance to given interpretive problems. A Special Topics class may be encouraged. **AP students prepare to take the Advanced Placement Exam in May for possible college credit. This course is offered in the traditional classroom and through the Keller ISD Blended Learning program which allows students to complete some of the coursework off campus.**

DUAL UNITED STATES HISTORY - TCC (US HISTORY 1301/1302)		
GRADE: 11	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03330100		KISD: 4004
PREREQUISITE: REQUIRED TCC Admission Standards		

Students will receive both high school and college credit upon successful completion of the class. This is a college level class, which is designed for highly motivated students who are prepared to take a college course in high school. These classes are a survey of the social, political, economic, cultural, and intellectual history of the United States. Students must purchase the books required for TCC – United States History. Also, students must register and pay for the course through Tarrant County College.



## UNITED STATES GOVERNMENT

GRADE: 12 ☒ CREDIT: .5

TEDS: 03330100 KISD: 4301

PREREQUISITE: None

United States Government is a general study of federal, state, local governments and the American political system including their decisions and activities.

Emphasis is placed on civic participation and responsibilities, democratic beliefs, and the interrelationships of government with the American economic system.

This course provides an opportunity to study in depth the foundation of the United States political system; to analyze structure and functions of the government on the local, state and federal levels; and to study the major documents including the Bill of Rights, Constitution and Federalist papers. The United States government and political systems will be compared to other governments and systems around the world. **This course is offered in the traditional classroom and through the Keller ISD Blended Learning program which allows students to complete some of the coursework off campus.**

## AP UNITED STATES GOVERNMENT AND POLITICS

GRADE: 12 ☒ CREDIT: .5

TEDS: A3330100 KISD: 4311

PREREQUISITE: WEIGHTED: 10 pts.  
None

The AP Government and Politics is equivalent to an introductory college course in government and is taught with a college level text. The purpose of this course is to give the students an analytical perspective on government and politics in the United States through the study of general concepts used to interpret and the analysis of specific examples. The major areas of study include: constitutional underpinning of the United States government; political beliefs and behaviors; political parties; interest groups and mass media; institutions of national government; public policy; and civil rights and civil liberties. The students will be required to evaluate general propositions about these areas of study and to analyze their political relationships between people and institutions using sustained written arguments. **AP students prepare to take the Advanced Placement Exam in May for possible college credit. This course is offered in the traditional classroom and through the Keller ISD Blended Learning program which allows students to complete some of the coursework off campus.**

## DUAL UNITED STATES GOVERNMENT TCC (GOVT 2305)

GRADE: 12 ☒ CREDIT: 1

TEDS: 03330100 KISD: 4304

PREREQUISITE: REQUIRED TCC Admission  
Standards

Students will receive both high school and college credit upon successful completion of the class. This is a college level class, which is designed for highly motivated students who are prepared to take a college course in high school. The course teaches United States constitutional and governmental systems. Students must purchase the books required for TCC – United States Government. Also, students must register and pay for the course through Tarrant County College.

## ECONOMICS

GRADE: 12 ☒ CREDIT: .5

TEDS: 03310300 KISD: 4302

PREREQUISITE: None

Economics is the general study of the principles concerning the production, consumption and distribution of goods and services. Areas of study include free enterprise, consumer behavior, personal financial literacy, monetary policy and the Federal Reserve, fiscal policy and International trade. The student will be involved in the application of economic facts, models, theories and generalizations of selected topics for study. **This course is offered in the traditional classroom and through the Keller ISD Blended Learning program which allows students to complete some of the coursework off campus.**

A P MACROECONOMICS		
GRADE: 12	<input checked="" type="checkbox"/>	CREDIT: .5
TEDS: A3310200	KISD: 4322	
PREREQUISITE: None	WEIGHTED: 10 pts.	

AP Macroeconomics is equivalent to an introductory college course in macroeconomics and is taught with a college level text. The purpose of AP Macroeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. This course places particular emphasis on the study of national income and price determination and develops students' familiarity with economic performance measures, economic growth, fluctuations of outputs and prices, money, monetary and fiscal policy and the global economy. **AP students prepare to take the Advanced Placement Exam in May for possible college credit. This course is offered in the traditional classroom and through the Keller ISD Blended Learning program which allows students to complete some of the coursework off campus.**

DUAL PRINCIPLES OF MACROECONOMICS TCC (ECON 2301)		
GRADE: 12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03310300	KISD: 4332	
PREREQUISITE: Standards	REQUIRED TCC Admission	

Students will receive both high school and college credit upon successful completion of the class. This is a college level class, which is designed for the highly motivated students who are prepared to take a college course in high school. This course is taught with an emphasis on the U.S. economy, the economizing problem, demand-supply theory, national income accounting, business fluctuation, fiscal policy, and monetary policy. Students must purchase books required for Principles of Macroeconomics. Also, students must register and pay for the course through Tarrant County College.

A P MICROECONOMICS		
GRADE: 12	<input checked="" type="checkbox"/>	CREDIT: .5
TEDS: A3310100	KISD: 4312	
PREREQUISITE: None	WEIGHTED: 10 pts.	

The AP Microeconomics is equivalent to an introductory college course in microeconomics and is taught with a college level text. The purpose of AP Microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumer and producers, within the larger economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy. The major areas of study include: basic economic concepts, the nature and functions of product markets, the theory of the firm, factor markets and efficiency, equity and the role of government. **AP students prepare to take the Advanced Placement Exam in May for possible college credit. This course is offered in the traditional classroom and through the Keller ISD Blended Learning program which allows students to complete some of the coursework off campus.**

HUMANITIES	
GRADE: 9	CREDIT: 2
TEDS: 03220100/A3360100	KISD: 1203
RECOMMENDED PREREQUISITE: None	

This double-blocked course is a combination of English I Pre-AP and AP Human Geography. The goal of the class is to gain a better understanding of the world we live in by studying human and cultural geography through the lens of literacy. Students will become geo-literate by studying interactions, interconnections, and implications of the human-environment relationship, including topics such as effects of political change, struggles of ethnic minorities and women, land use by big agriculture and urbanization, and the role of climate change and environmental abuses. Units of study will be thematic in nature, delivered through rigorous literacy practices, including engaging with texts, constructing texts, focusing on language, investigating through research, and academic discussion. This course is focused on college-level expectations and curriculum. Students will earn 1 credit for Pre-AP English I and 1 credit for AP Human Geography. **Students prepare to take the Advanced Placement exam in May for possible college credit.**

AP COMPARATIVE GOVERNMENT AND POLITICS
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GRADE: 12	<input checked="" type="checkbox"/>	CREDIT: .5
TEDS: A3330200		KISD: 4321
PREREQUISITE: None		WEIGHTED: 10 pts.

The AP Comparative Government and Politics is equivalent to an introductory college course in comparative government and is taught with a college level text. This course is an in-depth study of selected world governments. Emphasis will be placed on the assessment and understanding of the relationship between the sources of public authority and political power, society and politics, citizens and state as well as the political framework and political changes in nation-states. Both utopian and actual systems and concepts will be investigated, analyzed, and evaluated through detailed comparisons. A Special Topics class may be encouraged. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

AP EUROPEAN HISTORY		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3340200		KISD: 4503
PREREQUISITE: None		WEIGHTED: 10 pts.

AP European History is equivalent to an introductory college course in European History. European History AP is a study of European history from the High Renaissance (1450) to the recent past (1970). Emphasis will be placed on the investigation, understanding, and assessment of the principle themes in modern European history such as the intellectual, cultural, political, diplomatic, social, and economic developments. Analysis of historical evidence and expressing that understanding and analysis in writing will be required. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

PSYCHOLOGY		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: .5
TEDS: 03350100		KISD: 4402
PREREQUISITE: None		

Psychology gives students the opportunity to study individual and group psychology. Students learn how the knowledge, methods and theories of psychologists are applied to analyzing human behavior. Course content is organized to help students develop critical attitudes toward superficial generalization about human behavior and to achieve a better understanding of human behavior in general.

AP PSYCHOLOGY		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3350100		KISD: 4404
PREREQUISITE: None		WEIGHTED: 10 pts.

AP Psychology is equivalent to an introductory college course in Psychology. The purpose of this class is to introduce students to the systematic and scientific study of the behavior of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the minor subfields within psychology. They also learn about the methods psychologists use in their science and practice. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

SOCIOLOGY		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: .5
TEDS: 03370100		KISD: 4401
PREREQUISITE: None		

Sociology includes the nature of sociology, culture, socialization, groups, institutions, communication, and cultural development and change. The concepts will remain constant; however, the content may vary depending on the student interest. The student will have an opportunity to explore the major tools of the science of sociology. These will include, but are not limited to, analyzing types of groups and interaction among groups, understanding the impact of media on groups and analyzing the impact science and technology upon people and culture.

PERSONAL FINANCIAL LITERACY		
GRADE: 10-12		CREDIT: .5
TEDS: 03380082		KISD: 4504
PREREQUISITE: None		

Personal Financial Literacy will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility. The knowledge gained in this course has far-reaching effects for students personally as well as the economy as a whole. When citizens make wise financial decisions, they gain opportunities to invest in themselves, build businesses, consume goods and services in a responsible way, and secure a future without depending on outside assistance. The economy benefits from the optimal use of resources, increased consumption, and strong local businesses. State and local governments benefit with steady revenue streams and reduced future obligations as our society ages. This course is available in a traditional classroom as well as online through the Keller ISD Virtual Learning Program.

**SPECIAL TOPICS IN  
SOCIAL STUDIES:  
HEBREW  
SCRIPTURES**

GRADE: 9-12 CREDIT: .5

TEDS: 03380052 KISD: 6050

PREREQUISITE: None

This elective social studies course will follow federal law maintaining religious neutrality, and will consider the Hebrew scripture in a secular and academic context. Students will study biblical content and narratives that are prerequisites to understanding their impact on contemporary society and culture, including literature, art, music, tradition, morals, laws, history, and government. The course will be objective and academic in nature, requiring students to use their analytical abilities. It will compare religion and the history of religion for the purposes of literary and/or historical qualities.

**SPECIAL TOPICS IN  
SOCIAL STUDIES:  
NEW TESTAMENT**

GRADE: 9-12 CREDIT: .5

TEDS: 03380062 KISD: 6070

PREREQUISITE: None

This elective social studies course will follow federal law maintaining religious neutrality, and will consider the Hebrew scripture in a secular and academic context. Students will study biblical content and narratives that are prerequisites to understanding their impact on contemporary society and culture, including literature, art, music, tradition, morals, laws, history, and government. The course will be objective and academic in nature, requiring students to use their analytical abilities. It will compare religion and the history of religion for the purposes of literary and/or historical qualities.

## ***Physical Education***

Course Name	Credits	Grade Levels	Recommended Prerequisites
Adventures in Outdoor Education	1	9-12	None
Foundations of Personal Fitness	.5-1	9-12	None
Individual and Team Sports	.5-1	9-12	None
Partner P.E.	1	9-12	None

### **Athletics**

BOYS		GIRLS	
Baseball	Soccer	Basketball	Swimming
Basketball	Swimming	Cross Country	Tennis
Cross Country	Tennis	Golf	Track
Football	Track	Gymnastics	Volleyball
Golf	Wrestling	Soccer	Wrestling
Gymnastics	*Off-Campus PE	Softball	*Off-Campus PE

Annual UIL physicals are required for all students participating in one or more sports.

**Ninth Grade Athletics** is the introduction of UIL Competition Athletics at the high school level. Our objectives are to teach the proper attitude, improve the athletic ability of each student and to use Athletics to enhance academics. Students in the class period work to become better people and athletes; and practice individual sport skills after school.

**Requirements to enroll:** All necessary paperwork must be completed and turned in prior to end of school in the student's eighth grade year. Paperwork **MUST** have coach's signature.

*\*Must receive district approval*

### **Physical Education Substitutions**

Course Name	Credits	Grade Levels	Awarded
Band	1	9-12	Fall Semester Only
Cheerleading	1	9-12	Fall and Spring
Color guard	1	9-12	Fall and Spring
Dance I	1	9-12	Fall and Spring
Drill Team	1	9-12	Fall and Spring
ROTC I	1	9-12	Fall and Spring
Musical Theatre I	1	10-12	Fall and Spring
Technical Theatre II	1	10-12	Fall and Spring
Jazz Ensemble I (Show Choir)	1	9-12	Fall and Spring

*Students may receive up to 1 PE Substitution credit. It is awarded in the form of a P.*

ATHLETICS	
	CREDIT: .5 per semester for a maximum of 1 credit
GRADE: 9-12	
PREREQUISITE: Approval by the coach of that particular sport	

Athletics provide students with the opportunity to fine tune their athletic abilities and compete against students from other schools. Participation in athletics develops self-discipline, cooperation, leadership, responsibility, self-control and selflessness of participation in team sports. If approved, an annual physical examination is required before participating in any sport.

CHEERLEADING	
	LOCAL CREDIT: 1
GRADE: 9-12	
TEDS: PES00013	KISD: 50201
PREREQUISITE: Selection by tryouts and judging	

This course includes learning and practicing cheerleading skills and stunts for athletic events and training in various areas rhythms, gymnastics, and tumbling. Students will receive one PE Substitution Credit for Cheerleading. All other credits awarded are local and do not count towards graduation.

ADVENTURES IN OUTDOOR EDUCATION	
GRADE: 9-12	CREDIT: 1
TEDS: PES00053	KISD: 50303
PREREQUISITE: None	

Outdoor education provides opportunity for enjoyment and challenge with emphasis upon a selection of activities that promote respect for the environment and can be enjoyed for a lifetime. Certifications may be earned in Hunters Education, Anglers Education, and Boaters Education for an extra fee.

FOUNDATIONS OF PERSONAL FITNESS	
GRADE: 9-12	CREDIT: .5-1
TEDS: PES00052	KISD: 50304
PREREQUISITE: None	

The purpose of this course is to motivate students to strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness. The knowledge and skills taught in this course include teaching students about the process of becoming fit as well as achieving some degree of fitness within the class. The concept of wellness, or striving to reach optimal levels of health, is the cornerstone of this course and is exemplified by one of the course objectives – students designing their own personal fitness program.

INDIVIDUAL AND TEAM SPORTS	
GRADE: 9-12	CREDIT: .5-1
TEDS: PES00055	KISD: 50304
PREREQUISITE: None	

Students in Individual Sports are expected to participate in a wide range of individual sports that can be pursued for a lifetime. The continued development of health-related fitness and the selection of individual sport activities that are enjoyable is a major objective of this course.

PARTNER PE	
GRADE: 9-12	CREDIT: 1
TEDS: PES00055	KISD: 50305
TEDS: PES00052	KISD: 50306
TEDS: PES00054	KISD: 50307
PREREQUISITE: Application	

Partner P.E. is a success oriented physical education course for students with special needs and peer partners. This course can be taken for physical education credit or as an elective. Partner P.E. will enhance the existing academic schedule by offering a class that includes students with and without disabilities working together to encourage physical activity while developing respect for one another. This course promotes physical activity, acquisition of individual lifetime wellness skills, team sports, and recreational activities while fostering relationships and developing leadership skills in the peer partners. The goals of the Partner P.E. course are (1) to meet the physical education requirement for the students with disabilities in an environment of support and partnership, to increase their social skills, create friendships, and build self-esteem, and (2) to meet the physical education requirement for the students without disabilities, to develop leadership skills, to learn to interact and develop respect and empathy for their peers with disabilities, and to understand from first-hand experience the expectations for careers working with individuals with special needs.

## *21<sup>st</sup> Century Skill*

Course Name	Credits	Grade Levels	Recommended Prerequisites
<b>Professional Communications (also available online)</b>	<b>.5</b>	<b>9-12</b>	<b>None</b>
<b>Entrepreneurship (online)</b>	<b>1</b>	<b>9-12</b>	<b>None</b>

### P R O F E S S I O N A L C O M M U N I C A T I O N S

GRADE: 9-12	CREDIT: .5
TEDS: 13009900	KISD: 1465
PREREQUISITE: None	

Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this text, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research. **This course is also available as an online course through the Keller ISD Virtual Learning program.**

### E N T R E P R E N E U R S H I P

GRADE: 9-12	CREDIT: 1
TEDS: 13034400	KISD: Z82503
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. **This course is only available as an online course through the Keller ISD Virtual Learning program.**

## *Keller ISD Endorsements*

### Arts & Humanities\*

- English
- Fine Arts
- Social Studies
- World Languages

### Business & Industry

- Agriculture
- Architecture and Construction
- Arts, Audio Video Technology
- Business Communications\*
- Business
- Finance
- Hospitality and Tourism
- Information Technology
- Marketing
- Transportation

### Public Services

- Education and Training
- Health Science
- Human Services
- Law Enforcement and Security
- Military Science\*

### STEM

- Science\*
- Engineering
- Math\*

### Multidisciplinary

- Allows a student to select courses from the curriculum of each endorsement area and earn credits in a variety of advanced courses from multiple content areas or 4 credits of AP courses or 4 credits of Dual courses OR 4 Credits in each foundation subject area – must include English IV, Chem and/or Phys & KISD graduation requirements


- Denotes non-CTE pathways

## *Pathways at A Glance*

<b>Arts &amp; Humanities *</b>	<b>Business &amp; Industry</b>	<b>Public Services</b>	<b>STEM</b>
<ul style="list-style-type: none"> <li>American Sign Language</li> <li>Band</li> <li>Choir</li> <li>Creative Writing</li> <li>Dance</li> <li>French</li> <li>German</li> <li>History</li> <li>Latin</li> <li>Orchestra</li> <li>Piano</li> <li>Social Sciences</li> <li>Spanish</li> <li>Technical Theatre</li> <li>Theatre Production</li> <li>Visual Arts: Drawing</li> <li>Visual Arts: Electronic Media</li> <li>Visual Arts: Painting</li> <li>Visual Arts: Sculpture</li> </ul>	<ul style="list-style-type: none"> <li>Animation</li> <li>Architectural Design</li> <li>Audio Video Production</li> <li>Automotive Technology</li> <li>Broadcast Journalism *</li> <li>Business</li> <li>Career Preparation</li> <li>Computer Maintenance</li> <li>Computer Programming</li> <li>Construction Management</li> <li>Culinary Arts</li> <li>Cybersecurity</li> <li>Debate *</li> <li>Fashion Design</li> <li>Finance</li> <li>Graphic Design</li> <li>Interior Design</li> <li>Marketing</li> <li>Newspaper *</li> <li>Veterinary Studies</li> <li>Yearbook *</li> </ul>	<ul style="list-style-type: none"> <li>Child Guidance</li> <li>Cosmetology</li> <li>Counseling and Mental Health</li> <li>Court Law</li> <li>Education and Training</li> <li>Health Science: Biomedicine</li> <li>Health Science: Certified Nursing Assistant</li> <li>Health Science: Clinical Rotations</li> <li>Health Science: Emergency Medical Technician</li> <li>Health Science: Pharmacy</li> <li>Health Science: Sports Medicine</li> <li>Law Enforcement</li> <li>Military Science (ROTC) *</li> </ul>	<ul style="list-style-type: none"> <li>Biology *</li> <li>Calculus *</li> <li>Chemistry *</li> <li>Engineering</li> <li>Environmental Science *</li> <li>Math*</li> <li>Physics *</li> <li>Space Science *</li> </ul>
<b>Multidisciplinary Studies</b>			

\*Denotes Non-CTE Pathways

## *Arts and Humanities*

	Program of Study	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
 <b>English</b>	<b>Creative Writing</b>	English I Regular or Pre-AP 1 Credit	English II Regular or Pre-AP 1 Credit	English III Regular, Dual, or AP AND Creative Writing 2 Credits	English IV Regular, Dual, or AP AND Adv. Creative Writing OR Literary Magazine 2 Credits

E N G L I S H I		
GRADE: 9	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03220100		KISD: 1003
RECOMMENDED PREREQUISITE: None		

English I is the foundation course designed for ninth grade students who demonstrate talent in verbal and/or writing skills. Rigorous instruction emphasizes sentence structure, paragraph development, and development of comprehensive papers of explication, personal narrative, opinion, and description. Composition practice is coordinated with guided reading of fiction, nonfiction, drama, and poetry. The course will focus on critical thinking skills, literary analysis, and development of writing styles.

E N G L I S H I / P R E - A P		
GRADE: 9	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03220100		KISD: 1023
RECOMMENDED PREREQUISITE: None		WEIGHTED: 10 pts.

This course provides an in-depth study of the elements and genres of literature. Students produce a variety of original texts including documented research and literary analysis. They will also present oral communications using various forms and technologies. They analyze and critique their presentations and those of others emphasizing the purpose and effect of visuals on the audience. Students will focus on skills required for the Advanced Placement Exam.

E N G L I S H II		
GRADE: 10	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03220200		KISD: 1033
RECOMMENDED PREREQUISITE: English I		

English II is designed for tenth grade students. Intense instruction emphasizes sentence structure, paragraph development, and development of explication, personal narrative, opinion, and description. Composition practice is coordinated with guided reading of fiction, nonfiction, drama, and poetry. The course will focus on critical thinking skills, literary analysis, and development of writing styles. Each student will complete a research project.

E N G L I S H II / P R E - A P		
GRADE: 10	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03220200		KISD: 1053
RECOMMENDED PREREQUISITE: English I		WEIGHTED: 10 pts.

English II Pre-AP includes advanced mechanics, syntax, usage, and vocabulary in preparation for the PSAT and Advanced Placement Exam. It continues work on critical thinking skills. Students analyze discourse in persuasive and informative texts as well as the short documented essay. Students will also write reflectively using personal narrative and memoir. The course requires critical reading of classical, Medieval, Renaissance, and contemporary literature with emphasis on the writer's style and purpose. Literary selections provide more mature reading experiences. Students will produce a variety of oral and media communications. They will analyze and evaluate their own and others' presentations in terms of the effect of media on American society. Students will also complete a research project.



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### ENGLISH III

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GRADE: 11 ☒ CREDIT: 1

TEDS: 03220300 KISD: 1063

RECOMMENDED PREREQUISITE: English II

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English III is the third year of a required four-year study. It is a Recommended Prerequisite for English IV. Instruction emphasizes all aspects of American literature. Composition work continues with expository writing. Each student must complete a research project. **This course is offered in the traditional classroom and through the Keller ISD Blended Learning program which allows students to complete some of the coursework off campus.**

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### ENGLISH III-AP

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GRADE: 11 ☒ CREDIT: 1

TEDS: A3220100 KISD: 1083

RECOMMENDED PREREQUISITE: English II  
WEIGHTED: 10 pts.

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AP Language and Composition emphasizes the analysis of a variety of literary and nonfiction texts with particular attention to the writer's style, diction, syntax, argumentation, and logic. Students reflect this analysis in compositions that use sophisticated syntax and vocabulary, effective use of proof, and control of the conventions of language. Emphasis is on wide reading and analytic response in timed essays in preparation for the Advanced Placement Exam in Language and Composition. Students enrolling in this class are expected to take the Advanced Placement Exam in May. A qualifying score on the AP test may enable students to be exempt from the composition class that many colleges require. **AP students prepare to take the Advanced Placement Exam in May for possible college credit. This course is offered in the traditional classroom and through the Keller ISD Blended Learning program which allows students to complete some of the coursework off campus.**

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### DUAL ENGLISH III TCC Comp 1301/1302

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GRADE: 11 ☒ CREDIT: 1

TEDS: 03220300 KISD: 1065

PREREQUISITE: REQUIRED TCC Admission Standards

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Students will receive both high school and college credit upon successful completion of the class. This is a college level class, which is designed for highly motivated students who are prepared to take a college course in high school. The course includes principles of composition and rhetorical skills necessary for clear, logical writing. Emphasis on writing as a process and an introduction to research will be covered. Students must purchase the books required for TCC – Composition I and II. Also, students must register and pay for the course through Tarrant County College.

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### CREATIVE WRITING

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GRADE: 10-12 CREDIT: 1

TEDS: 03221200 KISD: 1163

RECOMMENDED PREREQUISITE: English II

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The study of creative writing allows high school students to earn one credit while developing versatility as a writer. Creative Writing, a rigorous composition course, asks high school students to demonstrate their skill in such forms of writing as fictional writing, short stories, poetry, and drama. All students are expected to demonstrate an understanding of the recursive nature of the writing process, effectively applying the conventions of usage and the mechanics of written English. The students' evaluation of their own writing as well as the writing of others ensures that students completing this course are able to analyze and discuss published and unpublished pieces of writing, develop peer and self-assessments for effective writing, and set their own goals as writers.

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### ADVANCED CREATIVE WRITING

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GRADE: 11-12 CREDIT: 1

TEDS: 03221500 KISD: 1164

RECOMMENDED PREREQUISITE: Creative Writing

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The study of creative writing allows high school students to earn one credit while developing versatility as a writer. Creative Writing, a rigorous composition course, asks high school students to demonstrate their skill in such forms of writing as fictional writing, short stories, poetry, and drama. All students are expected to demonstrate an understanding of the recursive nature of the writing process, effectively applying the conventions of usage and the mechanics of written English. The students' evaluation of their own writing as well as the writing of others ensures that students completing this course are able to analyze and discuss published and unpublished pieces of writing, develop peer and self-assessments for effective writing, and set their own goals as writers.

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ADVANCED  
JOURNALISM:  
LITERARY  
MAGAZINE

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GRADE: 12

CREDIT: 1


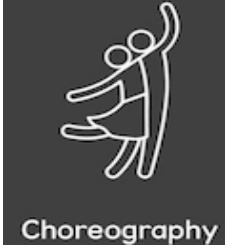
TEDS: 03230170

KISD: 13631

RECOMMENDED PREREQUISITE: Creative  
Writing

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Students enrolled in Advanced Journalism: Literary Magazine communicates in a variety of forms such as print, digital, or online media for a variety of audiences and purposes. High school students are expected to plan, draft, and complete written and/or visual communications on a regular basis, carefully examining their copy for clarity, engaging language, and the correct use of the conventions and mechanics of written English. In Advanced Journalism: Literary Magazine, students are expected to become analytical consumers of media and technology to enhance their communication skills. In addition, students will apply journalistic ethics and standards. Published works of professional journalists, technology, and visual and electronic media are used as tools for learning as students create, clarify, critique, write, and produce effective communications. Students enrolled in Advanced Journalism: Literary Magazine will refine and enhance their journalistic skills, research self-selected topics, and plan, organize, and prepare a project(s) in one or more forms of media.

	Program of Study	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
 Music	<b>Choir</b>	Choir I 1 Credit	Choir II 1 Credit	Choir III 1 Credit	Choir IV 1 Credit
	<b>Band</b>	Band I 1 Credit	Band II 1 Credit	Band III 1 Credit	Band IV 1 Credit
	<b>Orchestra</b>	Orchestra I 1 Credit	Orchestra II 1 Credit	Orchestra III 1 Credit	Orchestra IV 1 Credit
	<b>Piano</b>	Piano I 1 Credit	Piano II 1 Credit	Piano III 1 Credit	Piano IV 1 Credit
 Choreography	<b>Dance</b>	Dance I 1 Credit	Dance II 1 Credit	Dance III 1 Credit	Dance IV 1 Credit

## CHORAL MUSIC

### CHOIR I

GRADE: 9-12

CREDIT: 1

TEDS: 03150900

PREREQUISITE: None

Choir I is a training choir for students with little or no choral experience. Basics of choral singing, basic theory, and music fundamentals will be studied. Students will be encouraged to participate in auditions and the Keller ISD District Solo Contest. Concert performances are required.

### CHOIR II

GRADE: 10-12

CREDIT: 1

TEDS: 03151000

PREREQUISITE: Audition

Choir II is designed for students who have previous experience in choral music. Students must have basic sight singing skills. Repertoire includes: traditional choral music and lighter musical pieces. Students will study vocal/choral techniques, music theory, sight singing, and small ensemble singing. Students will be encouraged to participate in auditions and the Keller ISD District Solo Contest. Concert performances are required.

### CHOIR III

GRADE: 11-12

CREDIT: 1

TEDS: 03151100

PREREQUISITE: Audition

Choir III is designed for students who have previous experience in choral music. Students must have advanced sight-singing skills. Repertoire includes traditional choral music and music of all style periods and genres. Students will study vocal/choral techniques, music theory, advanced sight singing, and music history. Students will audition for the all-state choir and participate the Keller ISD District Solo Contest. Concert performances are required.

### CHOIR IV

GRADE: 12 CREDIT: 1

TEDS: 03151200

PREREQUISITE: Audition

Choir IV is designed for students who have prior experience in choral music. Repertoire includes a variety of traditional choral music and genres. Students will study vocal/choral techniques, music theory, advanced sight singing, and small ensemble singing. Students will audition for the all-state choir and participate in the Keller ISD District Solo Contest. Concert performances are required.

### MUSIC I-IV JAZZ ENSEMBLE

GRADE: 9-12 CREDIT: 1

TEDS: 03151300 I

TEDS: 03151400 II

TEDS: 03151500 III

TEDS: 03151600 IV

RECOMMENDED PREREQUISITE: Concurrent enrollment in a choir course and audition

This auditioned course is dedicated to the campus Show Choir. Its students are the ambassadors of the High School Choir Program and regularly perform off-campus at various community functions. Students must be able to dance and sing. **This class can only be taken in conjunction with a current choir course.** If a student does not meet the standards to be in Choir, they would be unable to perform at the ability needed to participate in the Jazz Ensemble class. Students will receive a 1 credit PE substitution for Jazz Ensemble I in the form of a "P" on the transcript.

### MUSIC I-IV VOCAL ENSEMBLE

GRADE: 9-12 CREDIT: 1

TEDS: 03152100 I

TEDS: 03152200 II

TEDS: 03152300 III

TEDS: 03152400 IV

RECOMMENDED PREREQUISITE: Concurrent enrollment in a choir course and audition

This class is designed for those students whose knowledge of music has reached beyond the expectations of a high school student. **This class can only be taken in conjunction with a current choir course.** If a student does not meet the standards to be in Choir, they would be unable to perform at the ability needed to participate in the Vocal Ensemble class. Materials covered in this class include, but are not limited to: advanced harmonies, advanced rhythms, and advanced techniques consistent with pedagogy classes offered by college level courses.

## INSTRUMENTAL MUSIC

### BAND I

GRADE: 9-12 CREDIT: 1

TEDS: 03150100

PREREQUISITE: Audition

The campus band is designed as an introductory class to basic skills in band. This class will focus on each student's individual playing skills. Students will receive an extremely high amount of individualized attention to focus on skills necessary for success in high school band. Students are also required to enroll in band for the full school year and participate in all extracurricular activities related to the marching band.

### BAND II

GRADE: 10-12 CREDIT: 1

TEDS: 03150200

PREREQUISITE: Audition

Band II is a preparatory group that focuses on refining individual skills necessary for the student to be successful both musically and technically in the wind ensemble. Students are encouraged to participate in all-region auditions in the fall and region solo and ensemble competition in the spring. There are several additional performance opportunities, both individually and collectively in which the students will be encouraged to participate. Students are also required to enroll in band for the full school year and participate in all extracurricular activities related to the marching band.

### BAND III

GRADE: 11-12 CREDIT: 1

TEDS: 03150300
PREREQUISITE: Audition

Band III is designed as an upper level high school band. The primary focus is on individual skills that will be necessary for the student's success in any ensemble. Students are encouraged to participate in all-region auditions in the fall and region solo and ensemble competition in the spring. There are several other performance opportunities, both individually and collectively in which the students will be allowed to participate. Students are also required to enroll in band for the full school year and participate in all extracurricular activities related to the marching band.

B A N D I V	
GRADE: 12	CREDIT: 1
TEDS: 03150400	
PREREQUISITE: Audition	

Band IV is the top-performing group at the high school. This ensemble delves into the finer points of ensemble playing and individual performance. An extremely high level of proficiency on the student's instrument is required. Students are required to participate in all-region auditions in the fall and region solo and ensemble competition in the spring. There are several additional performance opportunities, both individually and collectively in which the student will be required to participate. Students are also required to enroll in band for the full school year and participate in all extracurricular activities related to the marching band.

C O L O R G U A R D I - I V			
GRADE: 9-12		CREDIT: 1	
TEDS: 03150100	I	KISD: 7101	
TEDS: 03150200	II	KISD: 7102	
TEDS: 03150300	III	KISD: 7103	
TEDS: 03150400	IV	KISD: 7104	
PREREQUISITE: Audition; previous dance experience is helpful, but not required			

Students must audition to be accepted in color guard. This course deals with learning the basics of color guard performance (flag techniques, body movement, and performance skills). This is one of the many sections that make up the marching band that will perform at football games, marching contests, parades, and pep rallies. By taking this course, the student understands that they must attend all rehearsals, performances, and contests that take place outside the school day (regardless of placement). In addition, members will need to attend camps and other rehearsals that may take place during school vacations. After marching season students will participate in winter guard season, learning more comprehensive, in-depth skills while performing indoors. Students will audition for one of several ability-based winter guard groups at the end of the fall semester.

M U S I C I - I V A P P L I E D M U S I C	
GRADE: 9-12	CREDIT: 1
TEDS: 03151700	I
TEDS: 03151800	II
TEDS: 03151900	III
TEDS: 03152000	IV
PREREQUISITE: Concurrent enrollment in a Band course and audition	

This class is designed for those students with a need for a deeper knowledge of instrumental music. This course is designed to cater specifically to individual student needs. The course covers a wide range of topics including, but not limited to: individual performance, introduction to music theory, and small ensemble playing. Students from all abilities and band classes are encouraged to join. **This class can only be taken in conjunction with a current Band course.**

J A Z Z I - I V J A Z Z I M P R O V	
GRADE: 9-12	CREDIT: 1
TEDS: 03153000	I
TEDS: 03153100	II
TEDS: 03153200	III
TEDS: 03153300	IV
PREREQUISITE: Concurrent enrollment in a Band course and audition	

This course is designed to offer student exposure to a variety of jazz styles through the rehearsal and performance of classical literature as well as the most current writing for jazz ensembles. The course will train students in areas such as: aural skills, chord analysis, improvisation, jazz history, and small combo playing. **This class can only be taken in conjunction with a current Band course.**

A P M U S I C T H E O R Y	
GRADE: 11-12	CREDIT: 1
TEDS: A3150200	KISD: 7153
PREREQUISITE: WEIGHTED: 10 pts. Strong background in Music Theory and concurrent enrollment in Band or Choir	

This course requires a background in music theory as well as a familiarity with reading music. This course prepares students for college-level music theory and is designed for students who are going to major or minor in some sort of music study in college. This course will provide skills necessary to thrive in music theory at the college level such as: learning about major or minor scales, modes, intervals, chord progressions, and part-writing. This course will also cover aural skills such as: melodic dictation, music history, aural identification of intervals and chords, and error detection. The culmination of the course will be a composition project for voices or instruments. **Students enrolling in this class are expected to take the Advanced Placement Exam in May for possible college credit.**

O R C H E S T R A I - I V		
GRADE: 9-12		CREDIT: 1
TEDS: 03150500	I	KISD: 7091
TEDS: 03150600	II	KISD: 7092
TEDS: 03150700	III	KISD: 7094
TEDS: 03150800	IV	KISD: 7095
PREREQUISITE: None		

Orchestra is designed to train the intermediate and advanced string player in proper performance and rehearsal techniques, and to develop their potential through rehearsal and performance opportunities. Instrumental technique, history, and theory concepts are discussed and applied through the study and performance of appropriate literature. The student will develop self-discipline, responsibility, confidence, poise, the ability to work with others, and a sense of pride, as they rehearse and perform with the ensemble.

P I A N O I - I V		
GRADE: 9-12		CREDIT: 1
TEDS: 03152500	I	7163
TEDS: 03152600	II	7173
TEDS: 03151900	III	7183
TEDS: 03152000	IV	7193
PREREQUISITE: None		

This piano class is a goal driven and independently paced class. The students are to be self-motivated and to constantly strive to understand and better their individual piano abilities. This class is for beginners and experienced pianists. Prior piano lessons are not required.

## DANCE

D A N C E I	
GRADE: 9-12	CREDIT: 1 or PE substitution
TEDS: 03830100	KISD: 73001
PREREQUISITE: None	

Dance 1 is a broad overview of dance as an art form. This course introduces students to practices, philosophies, terminologies and various styles of dance through movement. Students will study basic choreographic elements and principles and will have the opportunity to perform.

D A N C E II	
GRADE: 10-12	CREDIT: 1
TEDS: 03830200	KISD: 73002
RECOMMENDED PREREQUISITE: Dance I	

Dance II is the study of dance as an art form. This course refines and reinforces the skills acquired in Dance I and familiarizes the student with practices, philosophies, terminologies and various styles of dance with a concentration of more complex movement phrases. Students will construct dance compositions and have the opportunity to perform.

DANCE III	
GRADE: 11-12	CREDIT: 1
TEDS: 03830300	KISD: 73003
RECOMMENDED PREREQUISITE: Dance II	


Dance III is the intermediate to advanced study of dance as an art form. This course refines and reinforces the skills acquired in previous dance courses. Dance III will have an emphasis on creating dance studies for production, managing and performing in a dance production.

DANCE IV	
GRADE: 11-12	CREDIT: 1
TEDS: 03830400	KISD: 73004
RECOMMENDED PREREQUISITE: Dance III	

Dance IV is the advanced study of dance as an art form. This course refines and reinforces the skills acquired in previous dance courses. Dance IV will have a concentration on creating original dances using choreographic processes and exploring opportunities in dance as a profession.

JAZZ I / DRILL TEAM PREP	
GRADE: 9-11	CREDIT: 1
TEDS: 03831300	KISD: 73100
RECOMMENDED PREREQUISITE: Audition or teacher recommendation	

This course provides students with a foundation in jazz technique which is critical to becoming a successful drill team dancer. It includes dance practices, philosophies, terminologies, and various styles of dance commonly found on drill teams. Students will also have the opportunity to practice audition skills and be provided with performance opportunities.

	Program of Study	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
	<b>Technical Theatre</b>	Theatre I 1 Credit	Technical Theatre I 1 Credit	Technical Theatre II AND one additional credit below: <ul style="list-style-type: none"> <li>Acting Styles: Classical</li> <li>Acting Styles: Realism</li> <li>Acting Styles: Improvisation</li> <li>Movement for the Actor</li> <li>Musical Theatre I</li> <li>Musical Theatre II</li> <li>Theatre III: Directing I</li> <li>Theatre III: Playwriting I</li> </ul>	Technical Theatre III AND one additional credit below: <ul style="list-style-type: none"> <li>Acting Styles: Classical</li> <li>Acting Styles: Realism</li> <li>Acting Styles: Improvisation</li> <li>Movement for the Actor</li> <li>Musical Theatre I</li> <li>Musical Theatre II</li> <li>Theatre III: Directing I</li> <li>Theatre III: Playwriting I</li> </ul>
	<b>Theatre Production</b>	Theatre I 1 Credit	Theatre Production I OR Theatre II 1 Credit	Theatre Production II OR Theatre III AND one additional credit below: <ul style="list-style-type: none"> <li>Acting Styles: Classical</li> <li>Acting Styles: Realism</li> <li>Acting Styles: Improvisation</li> <li>Movement for the Actor</li> <li>Musical Theatre I</li> <li>Musical Theatre II</li> <li>Theatre III: Directing I</li> <li>Theatre III: Playwriting I</li> </ul>	Theatre Production III OR Theatre IV AND one additional credit below: <ul style="list-style-type: none"> <li>Acting Styles: Classical</li> <li>Acting Styles: Realism</li> <li>Acting Styles: Improvisation</li> <li>Movement for the Actor</li> <li>Musical Theatre I</li> <li>Musical Theatre II</li> <li>Theatre III: Directing I</li> <li>Theatre III: Playwriting I</li> </ul>



# THEATRE ARTS

## THEATRE ARTS I

GRADE: 9-12 CREDIT: 1

TEDS: 03250100 KISD: 7703

PREREQUISITE: None

Introduction to Theatre: basic acting technique, history of the Theatre, introduction to technical Theatre, voice, diction, and articulation for the stage. This course also covers basic costuming, make-up, career opportunities, and audience etiquette.

## PARTNER IN THEATRE ARTS I

GRADE: 9-12 CREDIT: 1

TEDS: 03250100 KISD: 7704

PREREQUISITE: Application

Partner in Theatre Arts I is a success-oriented theatre course for students with special learning needs and peer partners. This course can be taken for a fine arts credit or as an elective. Partner in Theatre Arts I is focused on building community, mentorships, and theatrical skills for students with and without disabilities. The course will cover basic acting technique, history of the Theatre, introduction to technical Theatre, voice, diction, and audience etiquette.

## THEATRE ARTS II

GRADE: 10-12 CREDIT: 1

TEDS: 03250200 KISD: 7713

RECOMMENDED PREREQUISITE: Theatre Arts I

This course covers various acting styles, production techniques, introduction to design, children's Theatre, introduction to dance, make-up and costuming, and public performance.

## THEATRE ARTS III

GRADE: 10-12 CREDIT: 1

TEDS: 03250300 KISD: 7723

RECOMMENDED PREREQUISITE: Theatre Arts II and/or teacher approval

This course covers advanced elements of Theatre, advanced acting, critiques, and evaluations, public performance including individual and group efforts, elements of rehearsals, auditioning, and playwriting. Participation in extra-curricular competitions, performance, and productions is strongly encouraged.

## THEATRE ARTS IV

GRADE: 12 CREDIT: 1

TEDS: 03250400 KISD: 7733

RECOMMENDED PREREQUISITE: Theatre Arts III and/or teacher approval

This course allows the advanced student of Theatre to specialize in Theatre elements. An advanced demonstration of all Theatre aspects is expected. Participation in extra-curricular competitions, performances or productions is required.

## TECHNICAL THEATRE I

GRADE: 9-12 CREDIT: 1

TEDS: 03250500 KISD: 7743

PREREQUISITE: None

This course is created for the student who wishes to examine the technical aspects of the theatre. Students will learn how to design and build sets, create costumes and make-up, uses of lightening, sound, rigging, general upkeep of equipment and facilities, participate in theatrical house management, analyze scripts for technical needs, and use and upkeep of theatrical tools.

TECHNICAL THEATRE II	
GRADE: 10-12	CREDIT: 1 or PE substitution
TEDS: 03250600	KISD: 7753
RECOMMENDED PREREQUISITE: Technical Theatre I	

This course combines theories of design and stagecraft techniques with the construction and operation of the various elements of technical Theatre. Students will be expected to participate in all behind-the-scenes action of productions. Students will receive a 1 credit PE substitution for this course in the form of a “P” on the transcript.

TECHNICAL THEATRE III	
GRADE: 11-12	CREDIT: 1
TEDS: 03251100	KISD: 7763
RECOMMENDED PREREQUISITE: Technical Theatre II	

This course combines theories of design and stagecraft techniques with the construction and operation of various elements of the technical Theatre facility. Students are required to participate in all productions.

TECHNICAL THEATRE IV	
GRADE: 11-12	CREDIT: 1
TEDS: 03251200	KISD: 7773
RECOMMENDED PREREQUISITE: Technical Theatre III and teacher approval	

This course combines theories of design and stagecraft techniques with the construction and operation of various elements of the Theatre facility. Students are required to participate in all productions.

THEATRE PRODUCTION I - IV	
GRADE: 9-12	CREDIT: 1
TEDS: 03250700	I KISD: 7783
TEDS: 03250800	II KISD: 7793
TEDS: 03250900	III KISD: 7803
TEDS: 03251000	IV KISD: 7813
RECOMMENDED PREREQUISITE: Theatre Arts I and Audition	

This course provides practical hands-on experience in acting and stagecraft through the preparation and public performance of plays. This course may meet for a lengthened class period or outside of the regular school hours. Participation in public performance is required. Enrollment is by audition only.

MUSICAL THEATRE I - IV	
GRADE: 9-12	CREDIT: 1 or PE substitution for level I only
TEDS 03251900	KISD: 79010
TEDS 03252000	KISD: 79020
TEDS 03252100	KISD: 79030
TEDS 03252200	KISD: 79040
RECOMMENDED PREREQUISITE: Theatre Arts I and teacher approval	

Musical Theatre will expose students to a wide range of on-stage performance disciplines, including acting performance, vocal performance, and dance performance. The course will also provide an atmosphere in which students benefit from a teaching and learning experience in these performance disciplines of musical theatre. Students will receive comprehensive and rigorous instruction so that they may make informed choices about the craft, college, and the profession. The course will enhance and cultivate the creative gifts of each student while encouraging a sense of self-confidence. The course will enable students to study and perform the varied styles of musical theatre with special attention to the principles of stage movement, stage vocal technique, stage choreography, acting, characterization, and other aspects of a musical production.

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**MOVEMENT FOR  
THE ACTOR**

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GRADE: 10-12 CREDIT: 10

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TEDS N1170118 KISD: 79210

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RECOMMENDED PREREQUISITE: Theatre  
Arts I and teacher approval

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This course is available once Theatre Arts I has been completed. It is designed to employ state movements to express thoughts, feelings, and actions in order to analyze and describe the correlation of all physical elements used on stage.

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**ACTING STYLES :  
CLASSICAL**

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GRADE: 11-12 CREDIT: 1

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TEDS KISD: 79310

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RECOMMENDED PREREQUISITE: Theatre  
Arts I /requires teacher approval

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This is an advanced course available once Theatre Arts I has been completed. Students will study Greek Theatre, Commedia, dell'Arte, Shakespearean plays, the Restoration, and Melodrama.

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**ACTING STYLES :  
REALISM**

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GRADE: 11-12 CREDIT: 1

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TEDS KISD: 79311

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RECOMMENDED PREREQUISITE: Theatre  
Arts I /requires teacher approval

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This advanced course is available once Theatre Arts I has been completed. Students study text from the 1890's to present and learn acting elements of theatrical realism, Theatre of Absurd, and the modern theatre.

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**ACTING STYLES :  
IMPROVISATION**

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GRADE: 10-12 CREDIT: 1

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TEDS KISD: 79312

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RECOMMENDED PREREQUISITE: Theatre  
Arts I /requires teacher approval

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This course is available once Theatre Arts I has been completed. The students will study basic elements of improvisational acting and theatre. This course challenges students to use character development and expand their creative processes.

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**THEATRE III  
DIRECTING**

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GRADE: 10-12 CREDIT: 1

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TEDS KISD: 79401

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RECOMMENDED PREREQUISITE: Theatre  
Arts I /requires teacher approval

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This advanced course is available once Theatre Art I has been completed. Students are given the opportunity to enhance their ability to communicate with actors. Students explore the basic techniques of blocking with emphasis on the problems and aesthetic questions that arise.

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**THEATRE III  
INTRODUCTION TO  
PLAYWRITING**

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GRADE: 9-12 CREDIT: 1

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TEDS KISD: 79402


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RECOMMENDED PREREQUISITE: None

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This is a course available once Theatre Arts has been completed. The primary goal of the course is to encourage students to write quickly, fluidly and fearlessly. There will be emphasis on experimentation and process.

	Program of Study	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
 <b>Visual Arts</b>	<b>Drawing</b>	Art I 1 Credit	Art II Drawing Regular or Pre-AP 1 Credit	Art III Drawing Pre-AP 1 Credit	AP Studio Art – Drawing Portfolio 1 Credit
	<b>Electronic Media</b>	Art I 1 Credit	Art II Electronic Media Pre- AP 1 Credit	Art III Electronic Media Pre-AP 1 Credit	AP 3-D Design Portfolio 1 Credit
	<b>Painting</b>	Art I 1 Credit	Art II Painting Pre-AP 1 Credit	Art III Painting Pre-AP 1 Credit	AP 2-D Design Portfolio 1 Credit
	<b>Sculpture</b>	Art I 1 Credit	Art II Sculpture Pre-AP 1 Credit	Art III Sculpture Pre-AP 1 Credit	AP 3-D Design Portfolio 1 Credit

## VISUAL ARTS

A R T I	
GRADE: 9-12	CREDIT: 1
TEDS: 03500100	KISD: 7403
PREREQUISITE: None	

This comprehensive study stresses the elements and principles of art and their uses in two and three- dimensional art. Various media and art forms are used to gain understanding of the basics. This course is the Recommended Prerequisite for all specialized classes.

P A R T N E R S I N A R T I	
GRADE: 9-12	CREDIT: 1
TEDS: 03500100	KISD: 7404
PREREQUISITE: Application	

Partners in Art 1 is a success oriented visual arts course for students with special learning needs and peer partners. This course can be taken for a fine arts credit or as an elective. Partners in Art I is focused on building community, mentorships and artistic skills for students with and without disabilities. This class will explore the elements and principles of art and their uses in two and three-dimensional art. Various media and art forms are used to gain understanding of the basics.

A R T I / P R E - A P	
GRADE: 9-11	CREDIT: 1
TEDS: 03500100	KISD: 7413
PREREQUISITE: None	WEIGHTED: 10 pts.

This comprehensive study stresses the elements and principles of art and their uses in two and three- dimensional art. Using various media and art forms, emphasis will be given to drawing. This course is a Recommended Prerequisite for Art II Pre-AP.

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**ART II DRAWING**

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GRADE: 10-12 CREDIT: 1

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TEDS: 03500500 KISD: 7423

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RECOMMENDED PREREQUISITE: Art I

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Drawing II is a comprehensive study that stresses visual awareness, drawing techniques, and media experimentation. This course stresses the traditional techniques and expands into more contemporary methods of creative expression through drawing.

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**ART II  
DRAWING  
PRE - AP**

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GRADE: 10-12 CREDIT: 1

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TEDS: 03500500 KISD: 7425

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RECOMMENDED PREREQUISITE: Art I  
WEIGHTED: 10 pts.

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Drawing Pre-AP II is a comprehensive study of drawing that stresses the elements of art and their uses in two- dimensional art. It will deal with visual awareness, drawing techniques (traditional and non-traditional). This course is a Recommended Prerequisite for the AP Drawing and 2-D Design Portfolio. Students will gain experience with a variety of media and techniques. This course will include study of art and artists and vocabulary related to media and techniques.

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**ART II  
ELECTRONIC  
MEDIA  
PRE - AP**

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GRADE: 10-12 CREDIT: 1

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TEDS: 0350330 KISD: 7472

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RECOMMENDED PREREQUISITE: Art I  
WEIGHTED: 10 pts.

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Electronic Media emphasizes the elements and principles of art through traditional art projects completed via the computer. This course will be designated to include basic computer skills required for digital art software program utilized in the course.

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**ART II  
PAINTING  
PRE - AP**

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GRADE: 10-12 CREDIT: 1

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TEDS: 03500600 KISD: 7427

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RECOMMENDED PREREQUISITE: Art I  
WEIGHTED: 10 pts.

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Pre-AP Painting II is a comprehensive study of painting that stresses the elements and principles of art. The class will deal with visual awareness, painting techniques (traditional and non-traditional). Students will study a variety of art and artists and will participate in class critiques of student work and the work of master artists.

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**ART II  
SCULPTURE  
PRE - AP**

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GRADE: 10-12 CREDIT: 1

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TEDS: 03501000 KISD: 7463

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RECOMMENDED PREREQUISITE: Art I  
WEIGHTED: 10 pts.

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Sculpture II includes objective and non-objective three-dimensional assignments. Construction skills and classical techniques are an integral part of each assignment. Students will use various mediums including wood and clay.

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**ART III  
DRAWING  
PRE - AP**

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GRADE: 11-12 CREDIT: 1

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TEDS: 03501300 KISD: 7496

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RECOMMENDED PREREQUISITE: Art II  
WEIGHTED: 10 pts.

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Drawing Pre-AP III is a comprehensive study of drawing for advanced students seeking to develop ideas on a concentrated subject or theme. This course continues to stress the elements of art and their uses in two-dimensional art. It will deal with visual awareness, drawing techniques (traditional and non-traditional). The course will allow students more time to develop the breadth of college level artwork for the AP Drawing and 2-D Design Portfolio. Students will gain experience with a variety of media and techniques. Course will include study of art and artists and vocabulary related to media and techniques.

### ART III ELECTRONIC MEDIA PRE - AP

GRADE: 11-12	CREDIT: 1
TEDS: 03503400	KISD: 7473
RECOMMENDED PREREQUISITE:	Art II
WEIGHTED: 10 pts.	

Art III Electronic Media Pre-AP is a course to expand Art II Electronic Media and the broad interpretation of two-dimensional design issues. This course is intended to expand design skills that could be used to help develop an AP 2-D Design Portfolio. Students are asked to demonstrate higher-level proficiency in two-dimensional design using a variety of art forms and digital art software programs.

### ART III PAINTING PRE - AP

GRADE: 11-12	CREDIT: 1
TEDS: 03501400	KISD: 7481
RECOMMENDED PREREQUISITE:	Art II
WEIGHTED: 10 pts.	

Painting Pre-AP III is a comprehensive study of painting for advanced students seeking to develop ideas on a concentrated subject or theme. This course continues to stress the elements of art and their uses in two-dimensional art. It will deal with visual awareness and painting techniques (traditional and non-traditional). The course will allow students more time to develop the breadth of college level artworks for the AP Art 2-D Design Portfolio. Students will gain experience with a variety of media and techniques. Course will include study of art and artists and vocabulary related to media and techniques.

### ART III SCULPTURE PRE - AP

GRADE: 11-12	CREDIT: 1
TEDS: 03501900	KISD: 7490
RECOMMENDED PREREQUISITE:	Art II
WEIGHTED: 10 pts.	

This advanced course is devoted to deliberate and systematic presentation of various three-dimensional art processes, procedures, theories, and historical developments to provide a basis for students interested in building a three-dimensional design portfolio. The approach to art experiences during this time is experimental in terms of materials, but structured in terms of providing art students a strong foundation in concepts. Students will increase skills in using line, space, texture, color, form, and shape while manipulating the mediums of paper, wire, clay, plaster, cardboard, wood, etc.

### AP ART HISTORY

GRADE: 10-12	CREDIT: 1
TEDS: A3500100	KISD: 7543
PREREQUISITE:	WEIGHTED: 10 pts.
None	

Advanced Placement Art History is the equivalent to an introductory course in university level art history. An exam will be administered and assessed by the College Board in May. Many colleges and universities offer advanced placement and/or credit to students who have performed successfully on the AP Art History Exam. **AP students prepare to take the Advanced Placement Exam in May for possible college credit. This course is also available online at Central High School.**

### AP STUDIO ART - DRAWING PORTFOLIO

GRADE: 10-12	CREDIT: 1
TEDS: A3500300	KISD: 7553
RECOMMENDED PREREQUISITE:	Art II
WEIGHTED: 10 pts.	

The Drawing Portfolio is designed to address a very broad interpretation of drawing issues. Many types of painting, printmaking, and studies of sculpture, as well as abstract and observational works, would qualify as addressing drawing issues. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

### AP 2 - D DESIGN PORTFOLIO

GRADE: 10-12	CREDIT: 1
TEDS: A3500400	KISD: 7523
RECOMMENDED PREREQUISITE:	Art II
WEIGHTED: 10 pts.	

This portfolio is intended to address a very broad interpretation of two-dimensional design issues. Students are asked to demonstrate proficiency in two-dimensional design issues using a variety of art forms that may include, but are not limited to: graphic design, typography, digital imaging, photography, collage, fabric design, weaving, illustration, painting, and printmaking. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

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## AP 3 - D DESIGN PORTFOLIO

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GRADE: 10-12

CREDIT: 1

TEDS: A3500500


KISD: 7533

RECOMMENDED PREREQUISITE: Art II

WEIGHTED: 10 pts.

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The three-dimensional portfolio class is designed to address a very broad interpretation of three-dimensional design issues. Students are asked to prepare a collection of works which demonstrate proficiency in the three-dimensional design techniques that may include, but are not limited to: ceramics, metal work, wood work, textiles, paper craft, and installation **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

	Program of Study	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
	<b>History</b>	World Geography Regular or Pre-AP 1 Credit	World History Regular or AP 1 Credit	US History Regular, Dual, or AP AND AP European History 2 Credits	Government AND Economics Regular, Dual, or AP 1 Credit
	<b>Social Sciences</b>	World Geography Regular or Pre-AP OR AP Human Geography 1 Credit	World History Regular or AP 1 Credit	US History Regular, Dual, or AP AND AP Psychology 2 Credits	Government AND Economics Regular, Dual, or AP 1 Credit

WORLD GEOGRAPHY		
GRADE: 9	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03320100		KISD: 4203
PREREQUISITE: None		

Integrating the eight strands of the Texas Essential Knowledge and Skills for social studies, students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major land forms, climates, and ecosystems and their interrelationships; the political, economics, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of world population; relationships among people, places, and environments; and the concept of region. Students compare how components of culture shape the characteristics of regions and analyze the impact of technology and human modifications on the physical environment. Students use problem solving and decision-making skills to ask and answer geographic questions.

WORLD GEOGRAPHY PRE - AP		
GRADE: 9	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03320100		KISD: 4223
PREREQUISITE: None		WEIGHTED: 10 pts.

Pre-AP World Geography is designed for mastery of the Texas Essential Knowledge and Skills as well extension beyond this mastery. In this course, critical thinking and analytical skills will be utilized in various projects including interpretation of primary and secondary source materials. Students will use their knowledge of spatial relationships, systematic physical and human processes and the interaction between people and their environment to make intelligent decisions as citizens.

AP HUMAN GEOGRAPHY		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3360100		KISD: 4501
PREREQUISITE: None		WEIGHTED: 10 pts.

The purpose of the AP Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use and alterations of the earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. AP Human Geography can be substituted for World Geography. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**



WORLD HISTORY		
GRADE: 10	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03340400		KISD: 4103
PREREQUISITE: None		

World History is a global study of man's achievements from the beginning of prehistoric times to the present. Special emphasis is given to cultural patterns that have resulted from the interrelationships of geographic, social, economic, and political factors.

AP WORLD HISTORY		
GRADE: 10	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3370100		KISD: 4123
PREREQUISITE: None		WEIGHTED: 10 pts.

The AP World History is equivalent to an introductory college course in world history and is taught with a college level text. The purpose of this course is to develop a greater understanding of the development of world societies as they develop and interact through the ages. Emphasis will be placed on a combination of selective factual knowledge and appropriate analytical skills. There will be a focus on a variety of themes that collectively describe the human experience and issues of social structure and conditions of men and women. Studies will include routes of exchange and basic economic, political and social systems. A Special Topics class may be encouraged. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

UNITED STATES HISTORY		
GRADE: 11	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03340100		KISD: 4003
PREREQUISITE: None		

United States History is a study of the political, social, and economic events from Reconstruction 1877 to the present. Emphasis will be placed on significant individuals, issues, ideas and events that affect our country's history, present and future. In addition, students will learn how geography influences historical developments, economic development and growth; understand the nation's social, cultural and political development as the United States emerged as a world power and the relationship of the United States to the other nations of the world. **This course is offered in the traditional classroom and through the Keller ISD Blended Learning program which allows students to complete some of the coursework off campus.**

AP UNITED STATES HISTORY		
GRADE: 11	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3340100		KISD: 4023
PREREQUISITE: None		WEIGHTED: 10 pts.

The Advanced Placement United States History course is equivalent to an introductory course in United States History and is taught with a college level text. The purpose of this course is to develop a greater understanding of the development of United States through analytical skills and factual knowledge of the time period. Emphasis will be placed on assessment of historical materials and its relevance to given interpretive problems. A Special Topics class may be encouraged. **AP students prepare to take the Advanced Placement Exam in May for possible college credit. This course is offered in the traditional classroom and through the Keller ISD Blended Learning program which allows students to complete some of the coursework off campus.**

DUAL UNITED STATES HISTORY - TCC (US HISTORY 1301/1302)		
GRADE: 11	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03330100		KISD: 4004
PREREQUISITE: REQUIRED TCC Admission Standards		

Students will receive both high school and college credit upon successful completion of the class. This is a college level class, which is designed for highly motivated students who are prepared to take a college course in high school. These classes are a survey of the social, political, economic, cultural, and intellectual history of the United States. Students must purchase the books required for TCC – United States History. Also, students must register and pay for the course through Tarrant County College.

UNITED STATES GOVERNMENT		
GRADE: 12	<input checked="" type="checkbox"/>	CREDIT: .5
TEDS: 03330100		KISD: 4301
PREREQUISITE: None		

United States Government is a general study of federal, state, local governments and the American political system including their decisions and activities. Emphasis is placed on civic participation and responsibilities, democratic beliefs, and the interrelationships of government with the American economic system. This course provides an opportunity to study in depth the foundation of the United States political system; to analyze structure and functions of the government on the local, state and federal levels; and to study the major documents including the Bill of Rights, Constitution and Federalist papers. The United States government and political systems will be compared to other governments and systems around the world. **This course is offered in the traditional classroom and through the Keller ISD Blended Learning program which allows students to complete some of the coursework off campus.**

ECONOMICS AP (MICROECONOMICS)		
GRADE: 12	<input checked="" type="checkbox"/>	CREDIT: .5
TEDS: A3310100		KISD: 4312
PREREQUISITE: None		WEIGHTED: 10 pts.

The AP Microeconomics is equivalent to an introductory college course in microeconomics and is taught with a college level text. The purpose of AP Microeconomics is to give students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumer and producers, within the larger economic system. It places primary emphasis on the nature and functions of product markets and includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy. The major areas of study include: basic economic concepts, the nature and functions of product markets, the theory of the firm, factor markets and efficiency, equity and the role of government. **AP students prepare to take the Advanced Placement Exam in May for possible college credit. This course is offered in the traditional classroom and through the Keller ISD Blended Learning program which allows students to complete some of the coursework off campus.**

AP COMPARATIVE GOVERNMENT AND POLITICS		
GRADE: 12	<input checked="" type="checkbox"/>	CREDIT: .5
TEDS: A3330200		KISD: 4321
PREREQUISITE: None		WEIGHTED: 10 pts.

The AP Comparative Government and Politics is equivalent to an introductory college course in comparative government and is taught with a college level text. This course is an in-depth study of selected world governments. Emphasis will be placed on the assessment and understanding of the relationship between the sources of public authority and political power, society and politics, citizens and state as well as the political framework and political changes in nation-states. Both utopian and actual systems and concepts will be investigated, analyzed, and evaluated through detailed comparisons. A Special Topics class may be encouraged. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

EUROPEAN HISTORY AP		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3340200		KISD: 4503
PREREQUISITE: None		WEIGHTED: 10 pts.

AP European History is equivalent to an introductory college course in European History. European History AP is a study of European history from the High Renaissance (1450) to the recent past (1970). Emphasis will be placed on the investigation, understanding, and assessment of the principle themes in modern European history such as the intellectual, cultural, political, diplomatic, social, and economic developments. Analysis of historical evidence and expressing that understanding and analysis in writing will be required. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

P S Y C H O L O G Y		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: .5
TEDS: 03350100		KISD: 4402
PREREQUISITE: None		

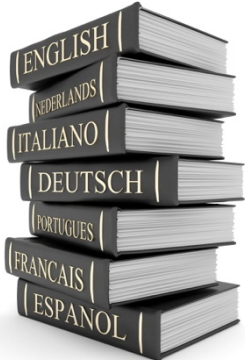
Psychology gives students the opportunity to study individual and group psychology. Students learn how the knowledge, methods and theories of psychologists are applied to analyzing human behavior. Course content is organized to help students develop critical attitudes toward superficial generalization about human behavior and to achieve a better understanding of human behavior in general.

A P P S Y C H O L O G Y		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3350100		KISD: 4404
PREREQUISITE: None		WEIGHTED: 10 pts.

AP Psychology is equivalent to an introductory college course in Psychology. The purpose of this class is to introduce students to the systematic and scientific study of the behavior of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the minor subfields within psychology. They also learn about the methods psychologists use in their science and practice. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

S O C I O L O G Y		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: .5
TEDS: 03370100		KISD: 4401
PREREQUISITE: None		

Sociology includes the nature of sociology, culture, socialization, groups, institutions, communication, and cultural development and change. The concepts will remain constant; however, the content may vary depending on the student interest. The student will have an opportunity to explore the major tools of the science of sociology. These will include, but are not limited to, analyzing types of groups and interaction among groups, understanding the impact of media on groups and analyzing the impact science and technology upon people and culture.

	Program of Study	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
 <b>World Languages</b>	<b>American Sign Language</b>	American Sign Language I 1 Credit	American Sign Language II 1 Credit	American Sign Language III 1 Credit	American Sign Language IV 1 Credit
	<b>Spanish</b>	Spanish I 1 Credit	Spanish II 1 Credit	Spanish III 1 Credit	Spanish IV 1 Credit
	<b>German</b>	German I 1 Credit	German II 1 Credit	German III 1 Credit	German IV 1 Credit
	<b>French</b>	French I 1 Credit	French II 1 Credit	French III 1 Credit	French IV 1 Credit
	<b>Latin</b>	Latin I 1 Credit	Latin II 1 Credit	Latin III 1 Credit	Latin IV 1 Credit

AMERICAN SIGN LANGUAGE I (ASL)		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03980100		KISD: 6403
PREREQUISITE: None		

Acquiring ASL incorporates expressive and receptive communication skills. Students develop these communication skills by using knowledge of the language including: grammar, culture, communication and learning strategies, technology and content from other subject areas to socialize, to acquire and provide information, to express feelings and opinions, and to get others to adopt a course of action. While knowledge of other cultures, connections to other disciplines, comparisons between languages and cultures and community interaction all contribute to and enhance the communicative language learning experience, communication skills are the primary focus of language acquisition.

AMERICAN SIGN LANGUAGE II		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03980200		KISD: 6413
RECOMMENDED PREREQUISITE: ASL I		

This course builds on the skills acquired in ASL I. Basic structure and vocabulary from the first level will be reviewed. Students will continue to develop skills as their knowledge of the language increases.

AMERICAN SIGN LANGUAGE III		
GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03980300		KISD: 6423
RECOMMENDED PREREQUISITE: ASL II		

This course builds on the skills acquired in ASL I and II. Structure and vocabulary from the previous courses will be reviewed. Students will develop more advanced skills as their knowledge of the language increases.

### AMERICAN SIGN LANGUAGE IV

GRADE: 12 ☒ CREDIT: 1

TEDS: 03980400 KISD: 6424

RECOMMENDED PREREQUISITE: ASL III

This course builds on the skills acquired in ASL III. Structure and vocabulary from the previous courses will be reviewed. Students will develop more advanced skills as their knowledge of the language increases.

### FRENCH I

GRADE: 9-12 ☒ CREDIT: 1

TEDS: 03410100 KISD: 6113

PREREQUISITE: None

This course is designed as an introduction to the basic structure and vocabulary of the French language. Students begin to develop skills in speaking, listening, reading, and writing. Emphasis is placed on the development of basic vocabulary. French culture will also be introduced. **This course is also available online through the Keller ISD Virtual Learning Program.**

### FRENCH I PRE - AP

GRADE: 9-12 ☒ CREDIT: 1

TEDS: 03410100 KISD: 6103

RECOMMENDED PREREQUISITE: None  
WEIGHTED: 10 pts.

This course is designed to aggressively initiate the AP student to the overall AP Foreign Language program. In addition to learning broad vocabulary from a wide variety of sources, the student will learn the present and preterit tenses as well as a host of grammatical structures, constructions, and tools for communication. Students will develop all skills in reading, listening, writing and speaking and will utilize each of these skills as they are regularly tested in the AP exam format.

### FRENCH II

GRADE: 9-12 ☒ CREDIT: 1

TEDS: 03410200 KISD: 6123

RECOMMENDED PREREQUISITE: French I

This course builds on the skills acquired in French I. Basic structure and vocabulary from the first level will be reviewed. Students will continue to develop skills in speaking, listening, reading and writing as their knowledge of the language increases. Linguistic practice is conducted in a cultural context. **This course is also available online through the Keller ISD Virtual Learning Program.**

### FRENCH II PRE - AP

GRADE: 9-12 ☒ CREDIT: 1

TEDS: 03410200 KISD: 6173

RECOMMENDED PREREQUISITE: French I  
WEIGHTED: 10 pts.

This course includes thematic vocabulary and expanded grammar concepts in a cultural and contextualized environment. This course builds on the skills acquired in French I as students continue to develop speaking, listening, reading, and writing. This course prepares students for French III Pre-AP as students are introduced to AP writing and literature.

### FRENCH III / PRE - AP

GRADE: 10-12 ☒ CREDIT: 1

TEDS: 03410300 KISD: 6133

RECOMMENDED PREREQUISITE: French II  
WEIGHTED: 10 pts.

This course builds on the skills acquired in French I and II. Structure and vocabulary from the previous courses will be reviewed. Students will develop more advanced skills in speaking, listening, reading, and writing through use of the language in the classroom. Students are introduced to French literature and communicative skills are emphasized.

### AP FRENCH IV

GRADE: 11-12 ☒ CREDIT: 1

TEDS: A3410100 KISD: 6143

RECOMMENDED PREREQUISITE: French III  
WEIGHTED: 10 pts.

This course builds on the skills acquired in French I, II, and III. Structure and vocabulary from the first courses will be reviewed. Students will continue to develop more advanced skills in speaking, listening, reading, and writing. French is spoken extensively in the classroom and emphasis is placed on writing. The format of the AP exam is introduced. Students are exposed to a broader spectrum of French literature and French culture. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

G E R M A N I		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03420100		KISD: 6213
PREREQUISITE: None		

This course is designed as an introduction to the basic structure and vocabulary of the German language. Students begin to develop skills in speaking, listening, reading, and writing. Emphasis is placed on the development of basic vocabulary. German culture will also be introduced. **This course is also available online through the Keller ISD Virtual Learning Program.**

G E R M A N I P R E - A P		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03420100		KISD: 6203
PREREQUISITE: None		WEIGHTED: 10 pts.

This course is designed to aggressively initiate the AP student to the overall AP Foreign Language program. In addition to learning broad vocabulary from a wide variety of sources, the student will learn the present and preterit tenses as well as a host of grammatical structures, constructions and tools for communication. Students will develop all skills in reading, listening, writing, and speaking and will utilize each of these skills as they are regularly tested in the AP exam format.

G E R M A N II		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03420200		KISD: 6223
RECOMMENDED PREREQUISITE: German I		

This course builds on the skills acquired in German I. Basic structure and vocabulary from the first level will be reviewed. Students will continue to develop skills in speaking, listening, reading, and writing as their knowledge of the language increases. Linguistic practice is conducted in a cultural context. **This course is also available online through the Keller ISD Virtual Learning Program.**

G E R M A N II P R E - A P		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03420200		KISD: 6273
RECOMMENDED PREREQUISITE: German I		
WEIGHTED: 10 pts.		

This course includes thematic vocabulary and expanded grammar concepts in cultural and contextualized environment. This course builds on the skills acquired in German I as students continue to develop speaking, listening, reading, and writing. This course prepares students for German III Pre-AP as students are introduced to AP writing and literature.

G E R M A N III P R E - A P		
GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03420300		KISD: 6233
RECOMMENDED PREREQUISITE: German II		
WEIGHTED: 10 pts.		

This course builds on the skills acquired in German I and II. Structure and vocabulary from the first courses will be reviewed. Students will develop more advanced skills in speaking, listening, reading, and writing through the use of the language in the classroom. Students are introduced to German literature and communicative skills are emphasized.

A P G E R M A N IV		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3420100		KISD: 6243
RECOMMENDED PREREQUISITE: German III		
WEIGHTED: 10 pts.		

This course builds on the skills acquired in German I, II, and III. Structure and vocabulary from the previous courses will be reviewed. Students will continue to develop more advanced skills in speaking, listening, reading, and writing. German is spoken extensively in the classroom, and emphasis is placed on writing. The format of the AP exam is introduced. Students are exposed to a broader spectrum of German literature and German culture. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

G E R M A N V		
GRADE: 12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03420500		KISD: 6263
RECOMMENDED PREREQUISITE: German IV		
WEIGHTED: 10 pts.		

This course builds on the skills acquired in German I, II, III, and IV. Structure and vocabulary from the previous courses will be reviewed. Students will continue to develop more advanced skills in speaking, listening, reading, and writing. German is spoken extensively in the classroom, and writing assignments will be based on German literature and Germanic culture. Students will gain an understanding of two basic aspects of human existence: the nature of communication and the complexity of culture. Students will become aware of multiple perspectives and means of expression, which lead to an appreciation of difference and diversity.



L A T I N I		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03430100		KISD: 6303
PREREQUISITE: None		

This course is designed as an introduction to the basic structure and vocabulary of the Latin language. Students begin to develop skills in reading, writing, speaking, and listening. Emphasis is placed on the development of basic vocabulary and English derivatives. Classical culture and history will also be introduced. **This course is also available online through the Keller ISD Virtual Learning Program.**

L A T I N I P R E - A P		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03430100		KISD: 6300
PREREQUISITE: None		WEIGHTED: 10 pts.

This course is designed to aggressively initiate the AP student to the overall AP Foreign Language program. In addition to learning broad vocabulary from a wide variety of sources, the student will learn the present and preterit tenses as well as a host of grammatical structures, constructions, and tools for communication. Students will develop all skills in reading, listening, writing and speaking and will utilize each of these skills as they are regularly tested in the AP exam format.

L A T I N II		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03430200		KISD: 6313
RECOMMENDED PREREQUISITE: Latin I		

This course builds on the skills acquired in Latin I. Basic structure and vocabulary from the first level will be reviewed. Students will continue to develop skills in reading, writing, speaking, and listening as their knowledge increases. Translation of classical authors will be conducted in a cultural context, with emphasis placed on impact of classical culture on Western thought and development. **This course is also available online through the Keller ISD Virtual Learning Program.**

L A T I N II P R E - A P		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03430200		KISD: 6373
RECOMMENDED PREREQUISITE:		Latin I
WEIGHTED: 10 pts.		

This course includes thematic vocabulary and expanded grammar concepts in cultural and contextualized environment. This course builds on the skills acquired in Latin I as students continue to develop speaking, listening, reading, and writing. This course prepares students for Latin III Pre-AP as students are introduced to AP writing and literature.

L A T I N III P R E - A P		
GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03430300		KISD: 6323
RECOMMENDED PREREQUISITE:		Latin II
WEIGHTED: 10 pts.		

This course builds on the skills acquired in Latin I and II. Structure and vocabulary from the first courses will be reviewed. Students will develop more advanced skills in reading, writing, speaking, and listening. Translation of classical literature will be emphasized.

A P L A T I N I V		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3430100		KISD: 6333
RECOMMENDED PREREQUISITE:		Latin III
WEIGHTED: 10 pts.		

This course builds on the skills acquired in Latin I, II, and III. Structure and vocabulary from the first courses will be reviewed. Students will continue to develop more advanced skills in reading, writing, speaking, and listening. The format of the AP exam is introduced. Students are exposed to a broader spectrum of classical literature, history, and culture. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

S P A N I S H I		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03440100		KISD: 6013
RECOMMENDED PREREQUISITE: None		

This course is designed as an introduction to the basic structure and vocabulary of the Spanish language. Students begin to develop skills in speaking, listening, reading, and writing. Emphasis is placed on the development of basic vocabulary. Hispanic culture will also be introduced. **This course is also available online through the Keller ISD Virtual Learning Program.**

S P A N I S H I P R E - A P		
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GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03440100		KISD: 6003
RECOMMENDED PREREQUISITE:		None
WEIGHTED: 10 pts.		

This course is designed to aggressively initiate the AP student to the overall AP Foreign Language program. In addition to learning broad vocabulary from a wide variety of sources, the student will learn the present and preterit tenses as well as a host of grammatical structures, constructions, and tools for communication. Students will develop all skills in reading, listening, writing and speaking and will utilize each of the skills as they are regularly tested in the AP exam format.

SPANISH II		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03440200		KISD: 6033
RECOMMENDED PREREQUISITE:		Spanish I

This course builds on the skills acquired in Spanish I. Basic structure and vocabulary from the first level will be reviewed. Students will continue to develop skills in speaking, listening, reading and writing as their knowledge of the language increases. Linguistic practice is conducted in a cultural context. **This course is also available online through the Keller ISD Virtual Learning Program.**

SPANISH II PRE - AP		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03440200		KISD: 6083
RECOMMENDED PREREQUISITE:		Spanish I
WEIGHTED: 10 pts.		

This course includes thematic vocabulary and expanded grammar concepts in cultural and contextualized environment. This course builds on the skills acquired in Spanish I as students continue to develop speaking, listening, reading and writing. This course prepares students for Spanish III Pre-AP as students are introduced to AP writing and literature.

SPANISH III		
GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03440300		KISD: 6023
RECOMMENDED PREREQUISITE:		Spanish II

This course is a continuation course of Spanish II. It is for those students who would like to have three years of Spanish, without ultimately pursuing the rigors of the AP Spanish classes. The important remaining grammar points are taught, but emphasis is placed on the student's ability to speak the language rather than the memorization and repetition of grammatical rules. Putting the grammar into practice in real world situations is the focus of the class. Students will learn conversational, survival skills, while they are exposed to a wide variety of cultural experiences. Students will learn a broad vocabulary from a large selection of topics and should be able to converse at an intermediate level after completing this course. The reading of short stories will help to increase the student's vocabulary and use of grammatical structures. Oral presentations, skits, and listening comprehension activities will also play an important role in the course curriculum.

SPANISH III PRE - AP		
GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03440300		KISD: 6043
RECOMMENDED PREREQUISITE:		Spanish II
WEIGHTED: 10 pts.		

This course builds on the skills acquired in Spanish I and II. Structure and vocabulary from the first courses will be reviewed. Students will develop more advanced skills in speaking, listening, reading, and writing through the use of the language in the classroom. Students are introduced to Spanish literature and communicative skills are emphasized.

AP SPANISH IV		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3440100		KISD: 6053
RECOMMENDED PREREQUISITE:		Spanish III
WEIGHTED: 10 pts.		

This course builds on the skills acquired in Spanish I, II, and III. Structure and vocabulary from the first courses will be reviewed. Students will continue to develop more advanced skills in speaking, listening, reading, and writing. Spanish is spoken extensively in the classroom and emphasis is placed on writing. The format of the AP exam is introduced. Students are exposed to a broader spectrum of Spanish literature and Hispanic culture. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**



## AP SPANISH V

GRADE: 11-12 ☒ CREDIT: 1

TEDS: A3440200 KISD: 6063

RECOMMENDED PREREQUISITE: Spanish IV  
WEIGHTED: 10 pts.

This course builds on the skills acquired in Spanish I, II, III, and IV and prepares students for Spanish Advanced Placement Exams. Structure and vocabulary from previous courses will be reviewed. Students will continue to develop more advanced skills in speaking, listening, reading, and writing. Linguistic practice follows the format of the AP exam. Spanish is spoken exclusively in the classroom and writing assignments will be based on Spanish literature and Hispanic culture. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

## SPECIAL TOPICS IN LANGUAGE AND CULTURE

GRADE: 9-12 ☒ CREDIT: 1

TEDS: 11410000 KISD: 6090

RECOMMENDED PREREQUISITE: Level I  
LOTE course. Committee approval required.

In this course, students will gain an understanding of two basic aspects of human existence: the nature of communication and the complexity of culture. Students will become aware of multiple perspectives and means of expression, which lead to an appreciation of difference and diversity. Students will develop an appropriate understanding of cultural context, become more globally literate, and possess the attributes of successful participants in the world community. Communication is the overarching goal of world language instruction. Students will be provided ample opportunities to engage in conversations, to present information to an audience, and to interpret culturally authentic materials in the language of study. This course may be substituted for a level II LOTE (Languages Other Than English) course upon approval by the student's level I LOTE classroom teacher, the principal or designee, the student's parents, and the student's counselor, who determine that the student is not likely to be successful in a level II LOTE course.

# Business and Industry



Program of Study Course Sequence	9th Grade	10th Grade	11th Grade	12th Grade	Optional Electives
<b>Veterinary Studies (2019-2020 freshmen and sophomores)</b>	<b>Principles of Agriculture, Food and Natural Resources</b> (1 Credit)	<b>Veterinary Medical Applications</b> (1 Credit) <i>Prerequisite:</i> <i>Principles of Agriculture, Food and Natural Resources</i>	<b>Advanced Animal Science</b> (1 Credit) and <b>choose one credit from optional electives list</b> (1 Credit) <i>Prerequisite:</i> <i>Veterinary Medical Applications</i>	<b>Practicum in Agriculture, Food and Natural Resources</b> (2 Credits) <i>Prerequisites:</i> <i>Agriculture Laboratory and Field Experience</i>	<b>Wildlife, Fisheries, and Ecology Management</b> (1 credit), <b>Small Animal Management</b> (.5 credit) and <b>Equine Science</b> (.5 credit), <b>Agribusiness Management and Marketing</b> (1 credit) <i>Prerequisite:</i> <i>Principles of Agriculture, Food and Natural Resources</i>
<b>Veterinary Studies (2019-2020 juniors and seniors)</b>	<b>Principles of Agriculture, Food and Natural Resources</b> (1 Credit)	<b>Equine Science</b> (.5 Credit) and <b>Small Animal Management</b> (.5 Credit) <i>Prerequisite:</i> <i>Principles of Agriculture, Food and Natural Resources</i>	<b>Veterinary Medical Applications</b> (1 Credit) and <b>Advanced Animal Science</b> (1 Credit) <i>Prerequisites:</i> <i>Equine Science, Small Animal Management, Biology, Chemistry, or IPC, Algebra 1, and Geometry</i>	<b>Practicum in Agriculture, Food and Natural Resources</b> (2 Credits) <i>Prerequisites:</i> <i>3 credits in the Veterinary Studies Program</i>	<b>Wildlife, Fisheries, and Ecology Management</b> (1 credit), <b>Agribusiness Management and Marketing</b> (1 credit) <i>Prerequisite:</i> <i>Principles of Agriculture, Food and Natural Resources</i>

*Classes that are shaded gray will be taught at the Keller Center for Advanced Learning*

Certifications / Certificate Opportunities Based on Program of Study
OSHA General Certification Certified Veterinary Assistant (CVA) Animal Health Care Attendant (ACT) Equine Specialist (iCEV) Beef Cattle Specialist (iCEV) Avimark Software Certification
Career and Technical Student Organization (CTSO)
FFA—Future Farmers of America

Additional Course Information
<b>Credits:</b> Advanced Animal Science can be used for science credit.
<b>Fees:</b> Career and Technical Student Organizations are co-curricular to the curriculum. Although membership is not required, it is highly encouraged for student to join their local CTSO chapter. Fees may apply.
<b>Location:</b> Courses shaded in gray will be held at the Keller Center for Advanced Learning.



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## PRINCIPLES OF AGRICULTURE, FOOD, AND NATURAL RESOURCES

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GRADE: 9-11 CREDIT: 1

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TEDS: 13000200 KISD: 81100

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PREREQUISITE: None

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To be prepared for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for success, students need to have opportunities to learn, reinforce experience, apply, and transfer their knowledge and skills in a variety of settings. Class is taught at the Keller Center for Advanced Learning.

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## VETERINARY MEDICAL APPLICATIONS

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GRADE: 11-12 CREDIT: 1

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TEDS: 13000600 KISD: 81105

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PREREQUISITE: Equine Science, Small Animal Management, Biology, Chemistry, or IPC, Algebra 1, and Geometry

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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. Class is taught at the Keller Center for Advanced Learning.

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## ADVANCED ANIMAL SCIENCE

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GRADE: 11-12 CREDIT: 1

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TEDS: 13007000 KISD: 81106

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PREREQUISITE: Equine Science, Small Animal Management, Biology, Chemistry, or IPC, Algebra 1, and Geometry

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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 counts as a science credit. Class is taught at the Keller Center for Advanced Learning.

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## WILDLIFE, FISHERIES, AND ECOLOGY MANAGEMENT

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GRADE: 10-12 CREDIT: 1

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TEDS: 13001500 KISD: 81040

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PREREQUISITE: Principles of Agriculture, Food, and Natural Resources

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Wildlife, Fisheries, and Ecology Management examines the management of game and non-game wildlife species, fish, and aqua crops and their ecological needs as related to current agricultural practices. To prepare for careers in natural resource systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. Class is taught at the Keller Center for Advanced Learning.

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## SMALL ANIMAL MANAGEMENT

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GRADE: 10-12 CREDIT: .5

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TEDS: 13000400 KISD: 81103

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RECOMMENDED PREREQUISITE: Principles of Agriculture, Food, and Natural Resources

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

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## EQUINE SCIENCE

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GRADE: 10-12 CREDIT: .5

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TEDS: 13000500 KISD: 81104

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RECOMMENDED PREREQUISITE: Principles of Agriculture, Food, and Natural Resources

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

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## AGRIBUSINESS MANAGEMENT AND MARKETING

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GRADE: 11-12 CREDIT: 1

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TEDS: 13000900 KISD: 81060

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PREREQUISITE: Principles of Agriculture, Food, and Natural Resources and Veterinary Medical Applications

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This course will be taught as a junior and senior level FFA leadership class. The course is designed for those that are FFA officers or active in FFA to help develop their leadership and speaking potential. Students in this class will be expected to assist with the development, promotion, and everyday functioning of the KCAL FFA chapter. Class is taught at the Keller Center for Advanced Learning.

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## PRACTICUM IN AGRICULTURE, FOOD, AND NATURAL RESOURCES

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GRADE: 11-12 CREDIT: 2

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TEDS: 13002500 KISD: 81161

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RECOMMENDED PREREQUISITE: 3 Agriculture Courses for 2019-20 juniors and seniors, Agriculture Lab and Field Experience for 2019-20 9<sup>th</sup> and 10<sup>th</sup> grade

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This course is recommended for students in Grades 11-12. 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. Students can pursue externships at a variety of animal science related businesses in the Keller and Fort Worth area including, but not limited to, veterinary clinics, farms and ranches, equine facilities, dog grooming, and boarding facilities. Students may also choose to pursue an in-house internship housed at the Keller Center for Advanced Learning where they will work in the KCAL veterinary science lab with pets from the Keller community. Recommended Prerequisite: a minimum of three credits from the courses in the Agriculture, Food, and Natural Resources cluster. Class is taught at the Keller Center for Advanced Learning.



## ***Business & Industry Endorsement***

Program of Study Course Sequence	9th. Grade	10th. Grade	11th. Grade	12th. Grade
<b>Architectural Design</b>	<b>Principles of Architecture</b> (1 Credit)	<b>Architectural Design I</b> (1 Credit) <i>Prerequisite:</i> <i>Principles of Architecture, Algebra 1, and English 1</i>	<b>Architectural Design II</b> (2 Credits) <i>Prerequisite:</i> <i>Architectural Design I (or Interior Design II) and Geometry</i>	<b>Practicum in Architectural Design</b> (2 Credits) <i>Prerequisite:</i> <i>3 credits in the Architectural Design Program including Architectural Design II</i>
<b>Construction Management</b>	<b>Principles of Construction</b> (1 Credit)	<b>Construction Management I</b> (2 Credits) <i>Prerequisite:</i> <i>Principles of Construction</i>	<b>Construction Management II</b> (2 Credits) <i>Prerequisite:</i> <i>Construction Management I</i>	<b>Practicum in Construction Management</b> (2 Credits) <i>Prerequisite:</i> 3 credits in the Construction Management Program including Construction Management II
<b>Interior Design</b>	<b>Principles of Human Services</b> (1 Credit)	<b>Interior Design I</b> (1 Credit) <i>Prerequisite:</i> <i>Principles of Human Services, Algebra I, and English 1</i>	<b>Interior Design II</b> (2 Credits) <i>Prerequisite:</i> <i>Interior Design I, English II, and Geometry</i>	<b>Practicum in Interior Design</b> (2 Credits) <i>Prerequisite</i> <i>Interior Design I and Interior Design II</i>

*\*Classes that are shaded gray will be taught at the Keller Center for Advanced Learning*

<b>Certifications / Certificate Opportunities Based on Program of Study</b>
OSHA General Certification (Architecture, Construction) NCCER (Architecture, Construction) SkillsUSA Workforce Ready (Architecture, Construction) Autodesk Revit (Architecture) Cyber Safety Awareness (Construction) SP2 - Certification Training (Construction) Interior Design Fundamentals Pre-Pac Certification (Interior Design)
<b>Career and Technical Student Organization (CTSO)</b>
SkillsUSA (Architecture, Construction) BPA—Business Professionals of America (Interior Design) FCCLA—Family Career & Community Leaders of America (Interior Design)

<b>Additional Course Information</b>
<b>Fees:</b> Career and Technical Student Organizations are co-curricular to the curriculum. Although membership is not required, it is highly encouraged for students to join their local CTSO chapter. Fees may apply.
<b>Location:</b> Courses shaded in gray will be held at the Keller Center for Advanced Learning.

## PRINCIPLES OF ARCHITECTURE

GRADE: 9-11	CREDIT: 1
TEDS: 13004210	KISD: 81200
RECOMMENDED PREREQUISITE: None	

Principles of Architecture provides an overview to the various fields of architecture and interior design. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, educational, and career information to set and achieve realistic career and educational goals. Safety and career opportunities are included, in addition to work ethics and job-related study in the classroom such as communications; problem solving and critical thinking; Information Technology Applications; systems; safety, health, and environmental; leadership and teamwork; ethics and legal responsibilities; employability and career development; technical skills; and reading technical drawings. Class is taught at the Keller Center for Advanced Learning.

## PRINCIPLES OF CONSTRUCTION

GRADE: 9-11	CREDIT: 1
TEDS: 13004220	KISD: 81220
RECOMMENDED PREREQUISITE: None	

Principles of Construction provides an overview to the various fields of construction science and construction technology. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Safety and career opportunities are included, in addition to work ethics and job-related study in the classroom such as communications; problem solving and critical thinking; Information Technology Applications; systems; safety, health, and environmental; leadership and teamwork; ethics and legal responsibilities; employability and career development; technical skills; introduction to hand tools; introduction to power tools; basic rigging. Class is taught at the Keller Center for Advanced Learning.

## ARCHITECTURAL DESIGN I

GRADE: 10-12	CREDIT: 1
TEDS: 13004600	KISD: 81210
PREREQUISITE: Principles of Architecture, Algebra I, and English I	

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

## ARCHITECTURAL DESIGN II

GRADE: 11-12	CREDIT: 2
TEDS: 12004700	KISD: 81211
PREREQUISITE: Architectural Design I (or Interior Design II) and Geometry	

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

## PRACTICUM IN ARCHITECTURAL DESIGN

GRADE: 11-12	CREDIT: 2
TEDS: 13004800	KISD: 81213
RECOMMENDED PREREQUISITE: 3 credits in Architectural Design Program including Architectural Design II	

Practicum in Architectural Design is an occupationally specific course designed to provide technical instruction in architectural design. Safety and career opportunities are included in addition to work ethics and architectural design study. Instruction may be delivered through laboratory training or through career preparation delivery arrangements. Class is taught at the Keller Center for Advanced Learning.

## CONSTRUCTION MANAGEMENT I

GRADE: 10-12	CREDIT: 2
TEDS: 13004900	KISD: 81221
RECOMMENDED PREREQUISITE: Principles of Construction	

In Construction Management I, students gain knowledge and skills specific to those needed to enter the work force as carpenters or building maintenance supervisors, or prepare for a postsecondary degree in construction management, architecture, or engineering. Students acquire knowledge and skills in safety, tool usage, building materials, codes, and framing. Class is taught at the Keller Center for Advanced Learning.

## CONSTRUCTION MANAGEMENT II

GRADE: 11-12 CREDIT: 2

TEDS: 13005000 KISD: 81222

PREREQUISITE: Construction Management I

In Construction Management II, students gain knowledge and skills specific to those needed to enter the workforce as carpenters or building maintenance supervisors or build a foundation toward a postsecondary degree in architecture, construction science, drafting, or engineering. Construction Management includes the knowledge of the design, techniques, and tools related to the management of architectural and engineering projects. Class is taught at the Keller Center for Advanced Learning.

## PRACTICUM IN CONSTRUCTION MANAGEMENT

GRADE: 11-12 CREDIT: 2

TEDS: 13006200 KISD: 81224

PREREQUISITE: 3 credits in Construction Management Program including Construction Management II

Practicum in Construction Management is an occupationally specific course designed to provide classroom technical instruction or on-the-job training experiences. Safety and career opportunities are included in addition to work ethics and job-related study in the classroom. Instruction may be delivered through laboratory training or through career preparation delivery arrangements. Class is taught at the Keller Center for Advanced Learning.

## PRINCIPLES OF HUMAN SERVICES

GRADE: 9-11 CREDIT: 1

TEDS: 13024200 KISD: 82100

RECOMMENDED PREREQUISITE: None

This laboratory course will enable students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, education and training, hospitality, fashion and interior design, and personal care services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

## INTERIOR DESIGN I

GRADE: 10-12 CREDIT: 1

TEDS: 13004300 KISD: 81202

PREREQUISITE: Principles of Human Services, Algebra I, and English I

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, construction, and furnishings to make wise consumer decisions, increase productivity, and compete in industry.

## INTERIOR DESIGN II

GRADE: 11-12 CREDIT: 2

TEDS: 13004400 KISD: 81203

PREREQUISITE: Interior Design I, English II, and Geometry

Interior Design II is a technical laboratory course that includes the knowledge of the employability characteristics, principles, processes, technologies, communication, tools, equipment, and materials related to interior spatial design.

## PRACTICUM IN INTERIOR DESIGN

GRADE: 11-12 CREDIT: 2

TEDS: 13004500 KISD: 81205

PREREQUISITE: Interior Design I and Interior Design II

This is an occupational-specific course designed to provide classroom technical instruction. Job-specific skilled training is provided through the use of laboratory training or training plans by local training sponsors in areas compatible with identified career goals in interior design. In addition, students are expected to develop knowledge and skills described in one of the training specialization options. Instruction may be delivered through laboratory training or through career preparation delivery arrangements.





## ***Business & Industry Endorsement***

Program of Study Course Sequence	9th. Grade	10th. Grade	11th. Grade	12th. Grade
<b>Animation</b>	Principles of Arts, Audio / Video Technology and Communications (1 Credit)	<b>Animation I</b> (1 credit)	<b>Animation II/ Animation II Lab</b> (2 credits) <i>Prerequisite: Animation I</i>	<b>Practicum in Animation</b> (2 Credits) <i>Prerequisite: Animation II/Animation II Lab</i>
<b>Audio/Video Production</b>	Principles of Arts, Audio / Video Technology and Communications (1 Credit)	<b>Audio / Video Production I</b> (1 Credit) <i>Prerequisite: Principles of AV</i>	<b>Audio / Video Production II/ Audio/Video Production II Lab</b> (2 Credits) <i>Prerequisite: Audio/Video I</i>	<b>Practicum in Audio/Video Production</b> (2 Credits) <i>Prerequisite: Audio/Video Production II/Audio/Video Production II Lab</i>
<b>**Commercial Photography**</b>	<b>**This pathway will no longer be offered after 2019-2020.**</b>	<b>**Students who took either Commercial Photography I or II in 2018-2019 are eligible to take the practicum in 2019-2020.**</b>	<b>Practicum in Commercial Photography</b> (2 Credits) <i>Prerequisite: Commercial Photography I</i>	<b>Practicum in Commercial Photography</b> (2 Credits) <i>Prerequisite: Commercial Photography II/Commercial Photography II Lab</i>
<b>Fashion Design</b>	Principles of Human Services (1 Credit)	<b>Fashion Design I</b> (1 Credit) <i>Prerequisite: Principles of Human Services</i>	<b>Graphic Design and Illustration I</b> (1 Credit) <i>Prerequisite: Fashion Design I</i>	<b>Fashion Design II/ Fashion Design II Lab</b> (2 Credits) <i>Prerequisite: Fashion Design I and Graphic Design I</i>
<b>Graphic Design and Illustration</b>	Principles of Arts, Audio / Video Technology and Communications (1 Credit)	<b>Graphic Design and Illustration I</b> (1 Credit) <i>Prerequisite: Principles of AV</i>	<b>Graphic Design and Illustration II/Graphic Design and Illustration II Lab</b> (2 credits) <i>Prerequisite: Graphic Design and Illustration I</i>	<b>Practicum in Graphic Design and Illustration</b> (2 Credits) <i>Prerequisite: Graphic Design and Illustration II/Graphic Design and Illustration II Lab</i>

*\*Classes that are shaded gray will be taught at the Keller Center for Advanced Learning*

<b>Certifications / Certificate Opportunities Based on Program of Study</b>
<p>Adobe ACA After Effects (Animation)  Adobe ACA Animate (Animation)  Autodesk Certified User (ACU) – Maya (Animation)  OSHA General Certification (Audio/Video)  Adobe Audition (Audio/Video)  Adobe After Effects (Audio/Video)  Adobe Premiere (Audio/Video)  SkillsUSA Workforce Ready (Audio/Video, Commercial Photography)  SBE Television Operator (Audio/Video)  ProTools (Audio/Video)  Cyber Safety Awareness (Commercial Photography)  Adobe ACA Photoshop (Commercial Photography)  Interior Design Fundamentals Pre-Pac Certification (Fashion Design)  Adobe InDesign (Graphic Design)  Adobe Photoshop (Graphic Design)  Adobe Illustrator (Graphic Design)</p>
<b>Career and Technical Student Organization (CTSO)</b>
<p>SkillsUSA (Animation, Audio/Video, Commercial Photography, Graphic Design)  BPA—Business Professionals of America (Fashion Design)  FCCLA—Family Career &amp; Community Leaders of America (Fashion Design)</p>

<b>Additional Course Information</b>
<p><b>Fees:</b>  Career and Technical Student Organizations are co-curricular to the curriculum. Although membership is not required, it is highly encouraged for students to join their local CTSO chapter. Fees may apply.</p> <p><b>Location:</b>  Courses shaded in gray will be held at the Keller Center for Advanced Learning.</p>

<b>PRINCIPLES OF ARTS, AUDIO/VIDEO TECHNOLOGY, AND COMMUNICATIONS</b>	
GRADE: 9-11	CREDIT: 1
TEDS: 13008200	KISD: 81300
RECOMMENDED PREREQUISITE: None	

Careers in the Arts, Audio/Video Technology, and Communications career cluster require, in addition to creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities. Topics such as introductions to graphic design and audio/video production will be included.

<b>PRINCIPLES OF HUMAN SERVICES</b>	
GRADE: 9-11	CREDIT: 1
TEDS: 13024200	KISD: 82100
RECOMMENDED PREREQUISITE: None	

This laboratory course will enable students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, education and training, hospitality, fashion and interior design, and personal care services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership

or extracurricular organizations.

<b>ANIMATION I</b>	
GRADE: 9-12	CREDIT: 1
TEDS: 13008300	KISD: 81302
RECOMMENDED PREREQUISITE:	

Careers in animation span all aspects of motion graphics. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the history and techniques of the animation industry.

<b>ANIMATION II / ANIMATION II LAB</b>	
GRADE: 10-12	CREDIT: 2
TEDS: 13008410	KISD: 81306
PREREQUISITE: Animation I	

Careers in animation span all aspects of motion graphics. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to create two- and three-dimensional animations. The instruction also assists students seeking careers in the animation industry. Class is taught at the Keller Center for Advanced Learning.

## **PRACTICUM IN ANIMATION**

GRADE: 11-12 CREDIT: 2

TEDS: 13008450 KISD: 81308

PREREQUISITE: Animation II/Animation II Lab

Careers in animation span all aspects of the motion graphics industry. Within this context, students will develop technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster. Building upon the concepts taught in previous animation courses, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production animation products in a professional environment and a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. Students will also have the opportunity to earn certifications in Adobe ACA After Effects, Adobe ACA Animate, and Autodesk Certified User (ACU) – Maya in this class. Class is taught at the Keller Center for Advanced Learning.

## **AUDIO/VIDEO PRODUCTION I**

GRADE: 10-12 CREDIT: 1

TEDS: 13008500 KISD: 81312

RECOMMENDED PREREQUISITE: Principles of Arts, Audio/Video Technology, and Communications

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.

## **AUDIO/VIDEO PRODUCTION II/ AUDIO/VIDEO PRODUCTION II LAB**

GRADE: 10-12 CREDIT: 2

TEDS: 13008610 KISD: 81316

PREREQUISITE: Audio/Video Production I

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 audio, video, and radio. Class is taught at the Keller Center for Advanced Learning.

## **PRACTICUM IN AUDIO/VIDEO PRODUCTION**

GRADE: 11-12 CREDIT: 2

TEDS: 13008700 KISD: 81318

RECOMMENDED PREREQUISITE: Audio/Video Production II/Audio/Video Production II Lab

Careers in audio and technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced technical 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 applying pre-production, production, and post-production audio, video, radio, or animation format. Class is taught at the Keller Center for Advanced Learning.

## **PRACTICUM IN COMMERCIAL PHOTOGRAPHY**

GRADE: 11-12 CREDIT: 2

TEDS: 13009250 KISD: 81338

PREREQUISITE: Commercial Photography II/Commercial Photography II Lab

The Arts, Audio/Video Technology, and Communications Career Cluster focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content, including visual and performing arts and design, journalism, and entertainment services. 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 a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. This course is available for students who took either Commercial Photography I or Commercial Photography II/Lab in 2018-2019, in order for those students to finish out their commercial photography pathway for graduation.

## GRAPHIC DESIGN AND ILLUSTRATION I

GRADE: 10-12	CREDIT: 1
TEDS: 13008800	KISD: 81322
RECOMMENDED PREREQUISITE: : Principles of Arts, Audio/Video Technology, and Communications	

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing 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 fundamental elements and principles of visual art and design. Class is taught at the Keller Center for Advanced Learning.

## GRAPHIC DESIGN AND ILLUSTRATION II/GRAPHIC DESIGN AND ILLUSTRATION II LAB

GRADE: 10-12	CREDIT: 2
TEDS: 13008910	KISD: 81326
PREREQUISITE: Graphic Design I	

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing 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 fundamental elements and principles of visual art and design. Class is taught at the Keller Center for Advanced Learning.

## PRACTICUM IN GRAPHIC DESIGN AND ILLUSTRATION

GRADE: 11-12	CREDIT: 2
TEDS: 13009000	KISD: 81328
PREREQUISITE: Graphic Design and Illustration II/Graphic Design and Illustration II Lab	

Careers in graphic design and illustration span all aspects of the advertising and visual 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 a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. Class is taught at the Keller Center for Advanced Learning.

## FASHION DESIGN I

GRADE: 10-12	CREDIT: 1
TEDS: 13009300	KISD: 81342
RECOMMENDED PREREQUISITE: Principles of Human Services	

Careers in fashion span all aspects of the textile and apparel industries. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of fashion, textiles, and apparel. Students will be expected to develop an understanding of the fashion industry with an emphasis on design and construction.

## FASHION DESIGN II/FASHION DESIGN II LAB

GRADE: 10-12	CREDIT: 2
TEDS: 13009410	KISD: 81346
PREREQUISITE: Fashion Design I and Graphic Design I	

In this advanced course, students will learn how to design, sew, and market their own merchandise. Students will be expected to develop an advanced understanding of fashion, with emphasis on design and production industries.



## Business & Industry Endorsement

Program of Study Course Sequence	9th. Grade	10th. Grade	11th. Grade	12th. Grade
<b>Business</b>	<b>Principles of Business, Marketing, and Finance</b> (1 Credit)	<b>Choose 1 of the following courses:</b> <b>Business Information Management I</b> (1 Credit), <b>Accounting I</b> (1 Credit), <b>Money Matters</b> (1 Credit) <i>Prerequisite: Principles of Business, Marketing, and Finance</i>	<b>Choose 1 of the following courses:</b> <b>Business Information Management I</b> (1 Credit), <b>Business Information Management II</b> (1 Credit), <b>Business Management</b> (1 Credit), <b>Accounting I</b> (1 Credit), <b>Accounting II</b> (1 Credit), <b>Money Matters</b> (1 Credit) <i>Prerequisite: Principles of Business, Marketing, and Finance and 1 additional business course</i>	<b>Choose 1 of the following courses:</b> <b>Practicum in Business Management</b> (2 Credits), <b>Business Information Management II</b> (1 Credit), <b>Business Management</b> (1 Credit), <b>Accounting II</b> (1 Credit), <i>Prerequisite: Principles of Business, Marketing, and 2 additional business courses</i>
<b>Career Preparation</b>	<b>Principles of Business, Marketing, and Finance</b> (1 Credit)	<b>Business Information Management I</b> (1 Credit) <i>Prerequisite: Principles of Business, Marketing, and Finance</i>	<b>Money Matters</b> (1 Credit) <i>Prerequisite: Principles of Business, Marketing, and Finance</i>	<b>Career Preparation I/Extended Career Preparation</b> (3 Credits) <i>Prerequisite: 3 credits of Business courses</i>
<b>General Business (all courses are online)</b>	<b>Principles of Business, Marketing, and Finance</b> (1 Credit)	<b>Business Information Management I</b> (1 Credit) <i>Prerequisite: Principles of Business, Marketing, and Finance</i>	<b>Business Management</b> (1 Credit) <i>Prerequisite: Principles of Business, Marketing, and Finance</i>	<b>Accounting I</b> (1 Credit) <i>Prerequisite: 3 Virtual Business Courses</i>

<b>Certifications / Certificate Opportunities Based on Program of Study</b>
Microsoft Office Specialist (MOS) (Word, Excel, Power Point, Access, Outlook Excel & Word Expert, Master) Office Proficient Assessment (OPAC)
<b>Career and Technical Student Organization (CTSO)</b>
BPA—Business Professionals of America DECA—Academic Marketing Association FBLA—Future Business Leaders of America SkillsUSA

<b>Additional Course Information</b>
<b>Credits:</b> Accounting II can be used for math credit.
<b>Fees:</b> Career and Technical Student Organizations are co-curricular to the curriculum. Although membership is not required, it is highly encouraged for students to join their local CTSO chapter. Fees may apply.

## PRINCIPLES OF BUSINESS, MARKETING, & FINANCE

GRADE: 9-11	CREDIT: 1
TEDS: 13011200	KISD: 81400
RECOMMENDED PREREQUISITE: None	

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economics 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. **This course is also available online through the Keller ISD Virtual Learning Program.**

## BUSINESS INFORMATION MANAGEMENT I

GRADE: 9-12	CREDIT: 1
TEDS: 13011400	KISD: 81401
RECOMMENDED PREREQUISITE: Principles of Business, Marketing, and Finance	

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.

## BUSINESS INFORMATION MANAGEMENT II

GRADE: 10-12	CREDIT: 1
TEDS: 13011500	KISD: 81402
RECOMMENDED PREREQUISITE: Business Information Management I	

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software. Students will also have the opportunity to earn their Microsoft Office Specialist (MOS) certification in this class.

## MONEY MATTERS

GRADE: 9-12	CREDIT: 1
TEDS: 13016200	KISD: 81600
RECOMMENDED PREREQUISITE: Principles of Business, Marketing, and Finance	

Students will investigate global economics with emphasis on the free enterprise system and its impact on consumers and businesses. Students apply critical thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to set long term financial goals based on those options. Students will determine methods of achieving long term financial goals through investment, tax planning, asset allocation, risk management, retirement planning, and estate planning.

## BUSINESS MANAGEMENT

GRADE: 10-12	CREDIT: 1
TEDS: 13012100	KISD: 81405
RECOMMENDED PREREQUISITE: Principles of Business, Marketing, and Finance	

Students recognize, evaluate and prepare for a rapidly evolving global business environment that requires flexibility and adaptability. Students analyze the primary functions of management and leadership, which are planning, organizing, staffing, directing or leading, and controlling. Topics will incorporate social responsibility of business and industry. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent managers, employees, and entrepreneurs. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate management decisions.

## ACCOUNTING I

GRADE: 10-12	CREDIT: 1
TEDS: 13016600	KISD: 81610
RECOMMENDED PREREQUISITE: 3 Virtual Business Courses for Business Pathway	

Students investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information. Students formulate and interpret financial information for use in management decision making.



ACCOUNTING II	
GRADE: 10-12	CREDIT: 1
TEDS: 13016700	KISD: 81611
RECOMMENDED 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. This course counts as a math credit.

PRACTICUM IN BUSINESS MANAGEMENT	
GRADE: 12	CREDIT: 2
TEDS: 13012200	KISD: 81414
RECOMMENDED PREREQUISITE: 3 credits in business courses	

The Practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business 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. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

CAREER PREPARATION I/ EXTENDED CAREER PREPARATION	
GRADE: 11-12	CREDIT: 3
TEDS: 12701305	I KISD: 81003
REQUIRED PREREQUISITE: 3 credits of Business Courses (for Business Pathway)	

This course is a work-based instructional arrangement, which develops essential knowledge and skills through classroom, technical knowledge and on the job internships in any approved career-tech specific training area. Internship placement must be teacher approved and fall within the guidelines and requirements in order for students to qualify for enrollment in this program.

## Business & Industry Endorsement

### Business Communications\*

Program of Study Course Sequence	9th. Grade	10th. Grade	11th. Grade	12th. Grade
<b>Debate</b>	<b>Debate I</b> (1 Credit)	<b>Debate II OR Oral Interpretation I</b> (1 Credits) <i>Prerequisite:</i> <i>Debate I</i>	<b>Debate III OR Oral Interpretation II</b> (1 credits) <i>Prerequisite:</i> <i>2 credits in Debate pathway</i>	<b>Independent Study in Speech</b> (1 credit) <i>Prerequisite:</i> <i>3 credits in Debate pathway</i>
<b>Broadcast Journalism</b>	<b>Contemporary Media</b> (1 Credit)	<b>Advanced Broadcast Journalism I</b> (1 Credit) <i>Prerequisite:</i> <i>Contemporary Media</i>	<b>Advanced Broadcast Journalism II</b> (1 Credit) <i>Prerequisite:</i> <i>Advanced Broadcast Journalism I</i>	<b>Advanced Broadcast Journalism III</b> (1 Credit) <i>Prerequisite:</i> <i>Advanced Broadcast Journalism II</i>
<b>Newspaper</b>	<b>Contemporary Media</b> (1 Credit)	<b>Newspaper I</b> (1 Credit) <i>Prerequisite:</i> <i>Contemporary Media</i>	<b>Newspaper II</b> (1 Credit) <i>Prerequisite:</i> <i>Newspaper I</i>	<b>Newspaper III</b> (1 Credits) <i>Prerequisite:</i> <i>Newspaper II</i>
<b>Yearbook</b>	<b>Contemporary Media</b> (1 Credit)	<b>Yearbook I</b> (1 Credit) <i>Prerequisite:</i> <i>Contemporary Media</i>	<b>Yearbook II</b> (1 Credit) <i>Prerequisite:</i> <i>Yearbook I</i>	<b>Yearbook III</b> (1 Credits) <i>Prerequisite:</i> <i>Yearbook II</i>

\*Denotes non-CTE Pathways

Student Organizations
Forensics Debate Club Campus Newspaper Campus Yearbook

D E B A T E I - I I I	
GRADE: 9-12	CREDIT: 1
TEDS: 03240600	KISD: 1403
TEDS: 03240700	KISD: 1413
TEDS: 03240800	KISD: 1423
RECOMMENDED PREREQUISITE: Debate I	

Controversial issues arise in aspects of personal, social public, and professional life in modern society. Debate and argumentation are widely used to make decisions and reduce conflict. Students who develop skills in argumentation and debate become interested in current issues, develop sound critical thinking, and sharpen communication skills. They acquire life-long skills for intelligently approaching controversial issues.

O R A L I N T E R P R E T A T I O N I - I I	
GRADE: 10-12	CREDIT: 1
TEDS: 03240200 I	KISD: 1462
TEDS: 03240300 II	KISD: 1471
RECOMMENDED PREREQUISITE: Debate I	

Literature and its presentation are integral to understanding the cultural aspects of a society. Students in Oral Interpretation I-II will select, research, analyze, adapt, interpret, and perform literary texts as a communication art. Students focus on intellectual, emotional, sensory, and aesthetic levels of texts to attempt to capture the entirety of the author's work. Individual or group performances of literature will be presented and evaluated. Competitive events are required.



INDEPENDENT STUDY IN SPEECH	
GRADE: 10-12	CREDIT: 1
TEDS: 03241200	KISD: 1463
RECOMMENDED PREREQUISITE: 3 credits in Debate pathway	

Communication skills are important in all aspects of life. Students who have mastered concepts and developed skills in introductory courses should be provided with opportunities to extend their knowledge and expand their skills in more advanced study. Independent Study in Speech provides opportunities for advanced students to plan, organize, produce, perform, and evaluate a project that enables them to develop advanced skills in communication, critical thinking, and problem solving.

CONTEMPORARY MEDIA	
GRADE: 9-12	CREDIT: 1
TEDS: 03241401	KISD: 1365
RECOMMENDED PREREQUISITE: None	

In this course, students will learn to identify the history and evolution of media used for mass communication, specifically how media influences tastes, behavior, purchasing, and voting decisions. Students who are media literate understand television, radio, film, and other visual images and auditory messages. They will learn to recognize the types and functions of mass media, such as television, radio, Internet, podcast, YouTube, newspaper, periodicals, blogs, social networking, emailing, texting, search engines, and music. They will identify and analyze regulations that govern media and interpret the influence of that media. They will also analyze, create, and evaluate visual and auditory messages, including developing skills for organizing, writing, and designing media messages for specific purposes and effects. This course can fulfill the 21<sup>st</sup> century skill requirement for students in the broadcast journalism, yearbook, or newspaper pathways only.

PHOTOJOURNALISM	
GRADE: 9-12	CREDIT: .5
TEDS: 03230800	KISD: 1371
RECOMMENDED PREREQUISITE: None	

In this semester course, students are expected to plan, interpret, and critique visual representation, carefully examining their product for publication. They will become analytical consumers of media and technology to enhance their communication skills. Students will study the laws and ethical considerations that impact photography. Published photos of professional photojournalists, technology, and visual and electronic media are used as tools for learning as students create, clarify, critique, and produce effective visual representations. Students will refine and enhance their journalistic skills and plan, prepare, and produce photographs for a journalistic publication, whether print, digital, or online media.

ADVANCED JOURNALISM NEWSPAPER I - III	
GRADE: 10-12	CREDIT: 1
TEDS: 03230140	I KISD: 13331
TEDS: 03230150	II KISD: 13332
TEDS: 03230160	III KISD: 13333
RECOMMENDED PREREQUISITE: Contemporary Media	

Students enrolled in Advanced Journalism, Newspaper I, II, and III communicate in a variety of forms such as print, digital, or online media for a variety of audiences and purposes. High school students are expected to plan, draft, and complete written and/or visual communications on a regular basis, carefully examining their copy for clarity, engaging language, and the correct use of the conventions and mechanics of written English. In Advanced Journalism: Newspaper I, II, III, students are expected to become analytical consumers of media and technology to enhance their communication skills. In addition, students will apply journalistic ethics and standards. Published works of professional journalists, technology, and visual and electronic media are used as tools for learning as students create, clarify, critique, write, and produce effective communications. Students enrolled in Advanced Journalism: Newspaper I, II, III will refine and enhance their journalistic skills, research self-selected topics, and plan, organize, and prepare a project(s) in one or more forms of media.

ADVANCED JOURNALISM YEARBOOK I - III		
GRADE: 10-12	CREDIT: 1	
TEDS: 03230110	I	KISD: 13531
TEDS: 03230120	II	KISD: 13532
TEDS: 03230130	III	KISD: 13533
RECOMMENDED PREREQUISITE: Contemporary Media		

Students enrolled in Advanced Journalism, Yearbook I, II, and III communicate in a variety of forms such as print, digital, or online media for a variety of audiences and purposes. High school students are expected to plan, draft, and complete written and/or visual communications on a regular basis, carefully examining their copy for clarity, engaging language, and the correct use of the conventions and mechanics of written English. In Advanced Journalism: Yearbook 1, 2, 3, students are expected to become analytical consumers of media and technology to enhance their communication skills. In addition, students will apply journalistic ethics and standards. Published works of professional journalists, technology, and visual and electronic media are used as tools for learning as students create, clarify, critique, write, and produce effective communications. Students enrolled in Advanced Journalism: Yearbook I, II, III will refine and enhance their journalistic skills, research self-selected topics, and plan, organize, and prepare a project(s) in one or more forms of media.

ADVANCED BROADCAST JOURNALISM I - III	
GRADE: 10-12	CREDIT: 1
TEDS: 03231900	KISD: 1313
TEDS: 03231901	KISD: 13231
TEDS: 03231902	KISD: 13232
RECOMMENDED PREREQUISITE: Contemporary Media	

Students need to be critical viewers, consumers, and producers of media. The ability to access, analyze, evaluate, and produce communication in a variety of forms is an important part of language development. High school students enrolled in this course will apply and use their journalistic skills for a variety of purposes. Students will learn the laws and ethical considerations that affect broadcast journalism; learn the role and function of broadcast journalism; critique and analyze the significance of visual representations; and learn to produce by creating a broadcast journalism product.



## Finance

### Business & Industry Endorsement

Program of Study Course Sequence	9th. Grade	10th. Grade	11th. Grade	12th. Grade
<b>Finance</b>	<b>Principles of Business, Marketing, and Finance</b> (1 Credit)	<b>Money Matters</b> (1 Credit) <i>Prerequisite:</i> <i>Principles of Business, Marketing, and Finance</i>	<b>Statistics and Business Decision Making</b> (1 Credit) <i>Prerequisite:</i> <i>Money Matters, Algebra II</i>	<b>Practicum in Business Management</b> (2 Credits) <i>Prerequisite:</i> <i>3 credits of Business courses</i>

Certifications / Certificate Opportunities Based on Program of Study
Everfi Financial Literacy
Career and Technical Student Organization (CTSO)
BPA—Business Professionals of America

Additional Course Information
<p><b>Credits:</b> Statistics and Business Decision Making can be used for math credit.</p> <p><b>Fees:</b> Career and Technical Student Organizations are co-curricular to the curriculum. Although membership is not required, it is highly encouraged for students to join their local CTSO chapter. Fees may apply.</p>

PRINCIPLES OF BUSINESS, MARKETING, AND FINANCE	
GRADE: 9-11	CREDIT: 1
TEDS: 13011200	KISD: 81400
RECOMMENDED PREREQUISITE: None	

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economics and private enterprise systems, the impact of global business, marketing of good 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. **This course is also available online through the Keller ISD Virtual Learning Program.**

MONEY MATTERS	
GRADE: 9-12	CREDIT: .1
TEDS: 13016200	KISD: 81600
RECOMMENDED PREREQUISITE: Principles of Business, Marketing, and Finance	

Students will investigate global economics with emphasis on the free enterprise system and its impact on consumers and businesses. Students apply critical thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to set long term financial goals based on those options. Students will determine methods of achieving long term financial goals through investment, tax planning, asset allocation, risk management, retirement planning, and estate planning.

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**STATISTICS AND  
BUSINESS DECISION  
MAKING**

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GRADE: 11-12

CREDIT: 1

TEDS: 13016900

KISD: 81621

RECOMMENDED PREREQUISITE: 3 credits in  
Business courses for Accounting Pathway, Algebra  
II

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Students will use a variety of graphical and numerical techniques to analyze patterns and departures from patterns to identify and manage risk that could impact an organization. Students will use probability as a tool for anticipating and forecasting data within business models to make decisions. Students will explore careers in the area of risk management and will learn to plan, monitor, and control day-to-day activities to enable continued functioning in finance. Students will analyze accounting systems to examine financial stability. Students will explain the role and impact of dividends in corporate finance. Students will access, process, maintain, evaluate, and disseminate, financial information to assist business decision-making. This course counts as a math credit.

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**PRACTICUM IN BUSINESS  
MANAGEMENT**

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GRADE: 12

CREDIT: 2

TEDS: 13012200

KISD: 81414

RECOMMENDED PREREQUISITE: 3 credits in  
business courses

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The practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business 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. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.



## ***Business & Industry Endorsement***

Program of Study Course Sequence	9th. Grade	10th. Grade	11th. Grade	12th. Grade
<b>Culinary Arts</b>	<b>Principles of Human Services</b> (1 Credit)	<b>Introduction to Culinary Arts</b> (1 Credit) <i>Prerequisite: Principles of Human Services</i>	<b>Culinary Arts</b> (2 Credits) <i>Prerequisite: Introduction to Culinary Arts</i>	<b>Practicum in Culinary Arts</b> (2 Credits) <i>Prerequisite: Culinary Arts</i>

*\*Classes that are shaded gray will be taught at the Keller Center for Advanced Learning*

Certifications / Certificate Opportunities Based on Program of Study
TX Food Handler ServSafe Food Protection
Career and Technical Student Organization (CTSO)
SkillsUSA FCCLA—Family Career & Community Leaders of America ProStart

Additional Course Information
<b>Fees:</b> Career and Technical Student Organizations are co-curricular to the curriculum. Although membership is not required, it is highly encouraged for students to join their local CTSO chapter. Fees may apply.
<b>Location:</b> Courses shaded in gray will be held at the Keller Center for Advanced Learning.

PRINCIPLES OF HUMAN SERVICES	
GRADE: 9-11	CREDIT: .1
TEDS: 13024200	KISD: 82100
RECOMMENDED PREREQUISITE: None	

This laboratory course will enable students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, education and training, hospitality, fashion and interior design, and personal care services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

INTRODUCTION TO CULINARY ARTS	
GRADE: 10-12	CREDIT: 1
TEDS: 13022550	KISD: 81901
RECOMMENDED PREREQUISITE: Principles of Human Services or Principles of Health Science	

The Hospitality and Tourism Career Cluster focuses on the management, marketing, and operations of restaurants and other food/beverage services, lodging, attractions, recreation events, and travel-related services. This course will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. It will provide insight into the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This is an entry-level course for students interested in pursuing a career in the food service industry. This course is offered as a classroom and laboratory-based course

## CULINARY ARTS

GRADE: 10-12

CREDIT: 2

TEDS: 13022600

KISD: 81902

RECOMMENDED PREREQUISITE: Introduction to Culinary Arts

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification, a Texas culinary specialist certification, or other appropriate industry certification. This course will be offered as a laboratory-based course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. Class is taught at the Keller Center for Advanced Learning.

## PRACTICUM IN CULINARY ARTS

GRADE: 11-12

CREDIT: 2

TEDS FIRST TIME

TAKEN: 13022700

TEDS SECOND TIME

TAKEN: 13022710

KISD: 81905

RECOMMENDED PREREQUISITE: Culinary Arts

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

## LIFETIME NUTRITION AND WELLNESS

GRADE: 9-12

CREDIT: .5

TEDS: 13024500

KISD: 82101

RECOMMENDED PREREQUISITE: Principles of Human Services

This laboratory course allows students to use principles of lifetime wellness and nutrition, including knowledge of nutritionally-balanced diets, to help them make informed choices that promotes wellness, as well as pursues careers related to human services. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extra-curricular organizations.



## ***Business & Industry Endorsement***

Program of Study Course Sequence	9th. Grade	10th. Grade	11th. Grade	12th. Grade
<b>Computer Maintenance</b>	<b>Professional Communications</b> (.5 credit) <b>and Touch System Data Entry</b> (.5 credit)	<b>Computer Maintenance</b> (1 Credit) <i>Prerequisite: None</i>	<b>Networking/ Networking Lab</b> (2 Credits) <i>Prerequisite: Computer Maintenance</i>	<b>Computer Technician Practicum</b> (2 credits) <i>Prerequisite: Computer Maintenance and Networking/Networking Lab</i>
<b>**CISCO Networking**</b>	<b>**This pathway will no longer be offered after 2019-2020.**</b>	<b>**Students who took Internetworking Technologies in 2018-2019 are eligible to take Practicum I in 2019-2020. Students who took Practicum in IT I in 2018-2019 are eligible to take Practicum II in 2019-2020.**</b>	<b>Practicum in Information Technology I (includes Intro to Networks and Routing and Switching Essentials)</b> <b>CISCO-YEAR 1</b> (2 Credits) <i>Prerequisite: Internetworking Technologies I</i>	<b>Practicum in Information Technology II (includes Connecting Networks and Scaling Networks)</b> <b>CISCO-YEAR 2</b> (2 Credits) <i>Prerequisite: Practicum in Information Technology CISCO-YEAR 1</i>
<b>Cybersecurity</b>	<b>Computer Science Essentials</b> (1 Credit)	<b>Principles of Cybersecurity</b> (1 Credit) <i>Prerequisite: Computer Science Essentials</i>	<b>Cybersecurity</b> (1 Credit) <i>Prerequisite: Principles of Cybersecurity</i>	<b>Practicum in Information Technology</b> (2 Credits) <i>Prerequisite: Cybersecurity</i>
<b>Computer Programming</b>	<b>Computer Science I</b> (1 Credit) <i>Prerequisite: Algebra I</i>	<b>AP Computer Science</b> (2 Credits) <i>Prerequisite: Computer Science I</i>	<b>Computer Programming I</b> (1 Credit) <b>and Computer Programming II</b> (1 Credit) <i>Prerequisite: AP Computer Science</i>	<b>Practicum in Information Technology</b> (2 Credits) <i>Prerequisite: 3 credits in Information Technology Program</i>

*\*Classes that are shaded gray will be taught at the Keller Center for Advanced Learning*

Certifications / Certificate Opportunities Based on Program of Study
A+ Certification (Computer Maintenance) CCENT (after 2 years of courses) (CISCO) Microsoft Technology Associate (MTA) Security Fundamentals (Cybersecurity) ISACA CSX Cybersecurity Fundamentals Certificate (Cybersecurity) CompTIA Security+ (Cybersecurity) GIAC Information Security Fundamentals (GISF) (Cybersecurity) (ISC)2 Systems Security Certified Practitioner (SSCP) (Cybersecurity)
Career and Technical Student Organization (CTSO)
SkillsUSA

Additional Course Information
<b>Credits:</b> AP Computer Science can be used for math credit.
<b>Fees:</b> Career and Technical Student Organizations are co-curricular to the curriculum. Although membership is not required, it is highly encouraged for students to join their local CTSO chapter. Fees may apply.
<b>Location:</b> Courses shaded in gray will be held at the Keller Center for Advanced Learning.



PROFESSIONAL COMMUNICATIONS	
GRADE: 9-12	CREDIT: .5
TEDS: 13009900	KISD: 1465
PREREQUISITE: None	

Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this text, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.

TOUCH SYSTEM DATA ENTRY	
GRADE: 9-12	CREDIT: .5
TEDS: 13011300	KISD: 81403
RECOMMENDED PREREQUISITE: None	

Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will need to apply touch system data entry for production of business documents. **This course is also available online through the Keller ISD Virtual Learning Program.**

COMPUTER MAINTENANCE	
GRADE: 10-12	CREDIT: 1
TEDS: 13027300	KISD: 82311
RECOMMENDED PREREQUISITE: None	

Students acquire principles of computer maintenance, including electrical and electronic theory, computer hardware principles, and broad level components related to the installation, diagnosis, service, and repair of computer systems. To prepare for success, students must have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Class is taught at the Keller Center for Advanced Learning.

NETWORKING / NETWORKING LAB	
GRADE: 11-12	CREDIT: 2
TEDS: 13027410	KISD: 82322
RECOMMENDED PREREQUISITE: Computer Maintenance	

Students develop knowledge of the concepts and skills related to telecommunications and data networking technologies and practices in order to apply them to personal or career development. To prepare for success, students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Class is taught at the Keller Center for Advanced Learning.

COMPUTER TECHNICIAN PRACTICUM	
GRADE: 9-11	CREDIT: 2
TEDS: 13027500	KISD: 82331
RECOMMENDED PREREQUISITE: Computer Maintenance and Networking/Networking Lab	

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, communications, and reasoning skills and apply them to the information technology environment. Class is taught at the Keller Center for Advanced Learning.

PRACTICUM IN INFORMATION TECHNOLOGY I Including Intro to Networking & Routing and Switching CISCO - YEAR 1	
GRADE: 11-12	CREDIT: 2
TEDS: 13028000	KISD: 82363
RECOMMENDED PREREQUISITE: Internetworking Technologies I	

First time taken, this course covers CISCO courses, including Introduction to Networks and Routing and Switching Essentials. It will cover the architecture, structure, functions, components, and models of the Internet and computer networks. The principles of IP addressing and fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. Students will learn to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. They will develop a working knowledge of routing, switching, network applications, protocols, and services. There will be in-depth study of advanced routing and switching for converged voice, video, and data enterprise networks. Students will learn how to configure a router and a switch for basic functionality. They will develop an in-depth understanding and theoretical knowledge of advanced routing and switching and will be able to configure and troubleshoot routers and switches and resolve common issues. Class is taught at the Keller Center for Advanced Learning.

<b>PRACTICUM IN INFORMATION TECHNOLOGY II</b> Including Connecting Networks & Scaling Networks <b>CISCO-YEAR 2</b>	
GRADE: 12	CREDIT: 2
TEDS: 13028010	KISD: 82364
RECOMMENDED PREREQUISITE: Practicum in Information Technology CISCO-Year 1	

Second time taken, this course covers CISCO courses, including Connecting Networks and Scaling Networks. The course describes the architecture, components, and operations of routers and switches in larger and more complex networks. Students will learn how to configure routers and switches for advanced functionality and will be able to configure and troubleshoot routers and switches to resolve common issues with data link protocols. Students will also develop the knowledge and skills needed to implement a WLAN in a small-to-medium network. In addition, this course discusses the WAN technologies and network services required by converged applications in a complex network. It enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students will also develop the knowledge and skills needed to implement virtual private network (VPN) operations in a complex network. Class is taught at the Keller Center for Advanced Learning.

<b>COMPUTER SCIENCE ESSENTIALS</b>	
GRADE: 9-12	CREDIT: 1
TEDS: 03580140	KISD: 82334
PREREQUISITE: Algebra I	

This PLTW course will be the foundation for the cybersecurity pathway. It will empower students to develop computational thinking skills while building confidence that prepares them to advance to subsequent cybersecurity courses. With emphasis on computational thinking and collaboration, this year-long course provides an excellent entry for students to begin or continue the PLTW experience. This course will expose students to a diverse set of computational thinking concepts, fundamentals, and tools, allowing them to gain understanding and build confidence. Students will use visual, block-based programming and seamlessly transition to text-based programming with languages such as Python to create apps and develop websites, and learn how to make computers work together to put their design into practice. They'll apply computational thinking practices, build their vocabulary, and collaborate just as computing professionals do to create products that address topics and problems important to them. Class is taught at the Keller Center for Advanced Learning.

<b>PRINCIPLES OF CYBERSECURITY</b>	
GRADE: 10-12	CREDIT: 1
TEDS: N1302810	KISD: 82335
PREREQUISITE: Computer Science Essentials	

As the second course in the cybersecurity pathway, this course develops the knowledge and skills needed to master fundamental concepts of cybersecurity. Students in the course will develop a basic foundation for continuing their cybersecurity education and choosing a career in the cybersecurity field. Students will explore the challenges facing information security professionals related to ethics, system security, network security, and application security. Students will conduct risk assessments and develop and implement security policies to mitigate those risks. Students will examine trends in cyber-attacks, common vulnerabilities, and the emergence of cyber terrorism. Class is taught at the Keller Center for Advanced Learning.

<b>CYBERSECURITY</b>	
GRADE: 11-12	CREDIT: 1
TEDS:	KISD: 82336
PREREQUISITE: Principles of Cybersecurity	

In this Project Lead the Way course, students are introduced to the tools and concepts of cybersecurity and encouraged to create solutions that allow people to share computing resources while protecting privacy. Nationally, computational resources are vulnerable and frequently attacked; in Cybersecurity, students solve problems by understanding and closing these vulnerabilities. This course raises students' knowledge of and commitment to ethical computing behavior. It also aims to develop students' skills as consumers, friends, citizens, and employees who can effectively contribute to communities with a dependable cyber-infrastructure that moves and processes information safely. Class will be taught at the Keller Center for Advanced Learning beginning in 2020-21.

PRACTICUM IN INFORMATION TECHNOLOGY I Cybersecurity	
GRADE: 12	CREDIT: 2
TEDS: 13028000	KISD: 82365
RECOMMENDED PREREQUISITE: 3 credits in the Cybersecurity Program	

In this course, students will gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge in the proper use of analytical skills and application of IT and cybersecurity concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an industry mentor, as an internship, as part of a capstone project, or as career preparation. Projects related to cybersecurity will be included in the course. Class will be taught at the Keller Center for Advanced Learning beginning in 2021-22.

COMPUTER SCIENCE I	
GRADE: 9-12	CREDIT: 1
TEDS: 03580200	KISD: 82301
PREREQUISITE: Algebra I	

Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. The purpose of this course is to continue on to AP Computer Science and prepare for the AP exam. Class is taught at the Keller Center for Advanced Learning.

AP COMPUTER SCIENCE	
GRADE: 10-12	CREDIT: 2
TEDS: A3580100	KISD: 82340
PREREQUISITE: Computer Science I	
WEIGHTED: 10 pts.	

AP Computer Science A is equivalent to a first-semester, college-level course in computer science and is a continuation of Computer Science I. The course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems. The AP Computer Science A course curriculum is compatible with many CS1 courses in colleges and universities. This course will strengthen the skills developed in Computer Science I. It involves more detailed programming using records, set, stacks, pointers, and recursion. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.** This course counts as a math credit. Class is taught at the Keller Center for Advanced Learning.

COMPUTER PROGRAMMING I & II	
GRADE: 10-12	CREDIT: 2
TEDS: 13027600/13027700	KISD: 82341
PREREQUISITE: AP Computer Science	

Students acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as it relates to computer programming. Students apply technical skills to address business applications of emerging technologies. Students will get to choose there are of focus among video game design, mobile application development, and coding. Class is taught at the Keller Center for Advanced Learning.

PRACTICUM IN  
INFORMATION  
TECHNOLOGY I  
COMPUTER  
PROGRAMMING

GRADE: 12

CREDIT: 2

TEDS: 13028000

KISD: 82361

RECOMMENDED PREREQUISITE: 3 credits in  
the Information Technology Program

In this course, students will gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge in the proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an industry mentor, as an internship, as part of a capstone project, or as career preparation. Projects related to coding, video game design, or mobile application development will be included in the course. Class is taught at the Keller Center for Advanced Learning.



## Business & Industry Endorsement

Program of Study Course Sequence	9th. Grade	10th. Grade	11th. Grade	12th. Grade
<b>Marketing</b>	<b>Principles of Business, Marketing &amp; Finance</b> (1 Credit)	<b>Advertising (.5 Credit) AND Fashion Marketing OR Sports &amp; Entertainment Marketing OR Social Media Marketing</b> (.5 Credit) <i>Prerequisite: Principles of Business, Marketing, &amp; Finance</i>	<b>Advanced Marketing</b> (2 Credits) <i>Prerequisite: 2 Credits of Marketing Courses</i>	<b>Practicum in Marketing</b> (2 Credits) <i>Prerequisite: 3 Credits of Marketing Courses</i>

Certifications / Certificate Opportunities Based on Program of Study
<p>Everfi Venture</p> <p>Microsoft Office Specialist Certification (MOS) (Word, Excel, PowerPoint, Access, Expert)</p>
Career and Technical Student Organization (CTSO)
<p>BPA—Business Professionals of America</p> <p>DECA—Academic Marketing Organization</p> <p>FBLA—Future Business Leaders of America</p>

Additional Course Information
<p><b>Fees:</b> Career and Technical Student Organizations are co-curricular to the curriculum. Although membership is not required, it is highly encouraged for students to join their local CTSO chapter. Fees may apply.</p>

PRINCIPLES OF BUSINESS, MARKETING, AND FINANCE	
GRADE: 9-11	CREDIT: 1
TEDS: 13011200	KISD: 81400
RECOMMENDED PREREQUISITE: None	

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economics 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. **This course is also available online through the Keller ISD Virtual Learning Program.**

ADVERTISING	
GRADE: 10-12	CREDIT: .5
TEDS: 13034200	KISD: 82501
RECOMMENDED PREREQUISITE: Principles of Business, Marketing, and Finance	

Advertising is designed as a comprehensive introduction to the principles and practices of advertising. Students will gain knowledge of techniques used in current advertising, including print, broadcast, and digital media. The course explores the social, ethical, and legal issues of advertising; historical influences, strategies, and media decision processes as well as integrated marketing communications. The course provides an overview of how communication tools can be used to reach target audiences and increase consumer knowledge.

FASHION MARKETING	
GRADE: 10-12	CREDIT: .5
TEDS: 13034300	KISD: 82502
RECOMMENDED PREREQUISITE: Principles of Business, Marketing, and Finance	

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.

SPORTS AND ENTERTAINMENT MARKETING	
GRADE: 10-12	CREDIT: .5
TEDS: 13034600	KISD: 82504
RECOMMENDED PREREQUISITE: Principles of Business, Marketing, and Finance	

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.

SOCIAL MEDIA MARKETING	
GRADE: 10-12	CREDIT: .5
TEDS: 13034650	KISD: 82505
RECOMMENDED PREREQUISITE: Principles of Business, Marketing, and Finance	

Social Media Marketing is designed to look at the rise of social media and how it has transformed the business arena. Students will learn about the multi-disciplinary implications and how to manage a successful social media presence for an organization.

ADVANCED MARKETING	
GRADE: 11-12	CREDIT: 2
TEDS: 13034700	KISD: 82511
RECOMMENDED PREREQUISITE: 2 Credits of Marketing courses	

Advanced Marketing is a series of activities that focus on the customer to generate a profitable exchange. Students gain knowledge and skills that help them to be proficient in one or more of the marketing functional areas associated with distribution, financing, marketing information management, pricing, product planning, promotion, purchasing, risk management, and selling skills. Students integrate skills from academic subjects, information technology, interpersonal communication, and management training to make responsible decisions. This course may include paid or unpaid career preparation experience.

PRACTICUM IN MARKETING	
GRADE: 12	CREDIT: 2
TEDS: 13034800	KISD: 82513
RECOMMENDED PREREQUISITE: Advanced Marketing	

Through course-required employment, students gain knowledge and skills that help them become proficient in one or more of the marketing functional areas. Students will illustrate appropriate management and research skills to create the marketing mix. This course covers technology, communication, and customer-service skills. The practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. The practicum course is a paid or unpaid experience for students participating in a coherent sequence of career and technical education courses in marketing education.

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PRACTICUM IN  
MARKETING /  
EXTENDED  
PRACTICUM IN  
MARKETING

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GRADE: 12

CREDIT: 3

TEDS: 13034805

KISD: 82514

RECOMMENDED PREREQUISITE: Advanced  
Marketing

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Through course-required employment, students gain knowledge and skills that help them become proficient in one or more of the marketing functional areas associated with distribution, financing, marketing information management, pricing, product planning, promotion, purchasing, risk management, and selling skills. Students will illustrate appropriate management and research skills to create the marketing mix. This course covers technology, communication, and customer-service skills. The practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. The practicum course is a paid or unpaid experience for students participating in a coherent sequence of career and technical education courses in marketing education. Students who take the Extended Practicum in Marketing will receive a series of dynamic activities that focus on the customer to generate a profitable exchange. Students will integrate skills from academic subjects, information technology, interpersonal communication, and management training to make responsible decisions.





## Business & Industry Endorsement

Program of Study Course Sequence	9th. Grade	10th. Grade	11th. Grade	12th. Grade
<b>Automotive Technology</b>	<b>Automotive Basics</b> (1 Credit)	<b>Automotive Technology I: Maintenance and Light Repair</b> (2 Credits) <i>Prerequisite: Automotive Basics</i>	<b>Automotive Technology II: Automotive Service</b> (2 Credits) <i>Prerequisite: Automotive Technology I</i>	<b>Practicum in Transportation Systems</b> (2 Credits) <i>Prerequisite: 3 credits in Automotive Technology Program</i>

*\*Classes that are shaded gray will be taught at the Keller Center for Advanced Learning*

Certifications / Certificate Opportunities Based on Program of Study
ASE Student Certification SP2 Environmental 609 HVAC Certification
Career and Technical Student Organization (CTSO)
SkillsUSA

Additional Course Information
<b>Fees:</b> Career and Technical Student Organizations are co-curricular to the curriculum. Although membership is not required, it is highly encouraged for students to join their local CTSO chapter. Fees may apply.
<b>Location:</b> Courses shaded in gray will be held at the Keller Center for Advanced Learning.

PROFESSIONAL COMMUNICATIONS	
GRADE: 9-12	CREDIT: .5
TEDS: 13009900	KISD: 1465
PREREQUISITE: None	

Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this text, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.

TOUCH SYSTEM DATA ENTRY	
GRADE: 9-12	CREDIT: .5
TEDS: 13011300	KISD: 81403
RECOMMENDED PREREQUISITE: None	

Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will need to apply touch system data entry for production of business documents. **This course is also available online through the Keller ISD Virtual Learning Program.**

AUTOMOTIVE BASICS	
GRADE: 9-11	CREDIT: 1
TEDS: 13039550	KISD: 82730
RECOMMENDED PREREQUISITE: None	

Automotive Basics includes knowledge of the basic automotive systems and the theory and principles of the components that make up each system and how to service these systems. Automotive Basics includes applicable safety and environmental rules and regulations. In Automotive Basics, students will gain knowledge and skills in the repair, maintenance, and servicing of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability. This course is taught at the Keller Center for Advanced Learning.

AUTOMOTIVE TECHNOLOGY I: Maintenance and Light Repair	
GRADE: 10-12	CREDIT: 2
TEDS: 13039600	KISD: 82731
RECOMMENDED PREREQUISITE: Principles of Transportation, Distribution & Logistics	

This course is designed to include knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. It includes applicable safety and environmental rules and regulations. Students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability. This course is taught at the Keller Center for Advanced Learning.

AUTOMOTIVE TECHNOLOGY II: Automotive Services	
GRADE: 11-12	CREDIT: 2
TEDS: 13039700	KISD: 82732
RECOMMENDED PREREQUISITE: Automotive Technology I	

This course is designed to include knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. It includes applicable safety and environmental rules and regulations. Students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability. This course is taught at the Keller Center for Advanced Learning.

PRACTICUM IN TRANSPORTATION SYSTEMS	
GRADE: 12	CREDIT: 2
TEDS: 13040450	KISD: 82762
RECOMMENDED PREREQUISITE: 3 credits of Transportation Systems	

The Transportation, Career Cluster focuses on planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water. It also covers related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment, and facility maintenance. This 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 experience such as internships, mentorships, independent study, or laboratories. The Practicum can be either school lab based or worked based. This course is taught at the Keller Center for Advanced Learning.

AIRCRAFT AIRFRAME TECHNOLOGY-DUAL (TCC)	
GRADE: 11-12	CREDIT: 2
TEDS: 13039400	KISD: 82721
PREREQUISITE: REQUIRED Successfully passing the TSI	

This course is designed to teach the theory of operation of aircraft airframes, power plants, and avionics systems and associated maintenance and repair practices. Aircraft services include knowledge of the function, diagnosis, and service of the electrical, electronic, hydraulic, pneumatic, airframe, mechanical, and power plant components of aircraft. Students must enroll, purchase the books required, and pay for Ground operations (AERM 1310), Basic Electricity (AERM 1314), Shop Practices (AERM 1303), and Aviation Science (AERM1315) at TCC to receive credit for this course. These classes are all taught at TCC-Alliance. Students must have their own transportation.

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AIRCRAFT  
POWERPLANT  
TECHNOLOGY-DUAL  
(TCC)

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GRADE: 12

CREDIT: 2

TEDS: 13039500

KISD: 82722

PREREQUISITE: Aircraft Technology Dual

REQUIRED TCC Admission Standards

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This course is designed to apply the theory of operation, repair, and maintenance of aircraft airframe, power plant, and avionics systems. Aircraft services include knowledge of the function, diagnosis, and service of the electrical, electronic, hydraulic, pneumatic, airframe, mechanical, and power plant components of aircraft as governed by federal aviation regulations. Students must enroll, purchase the books required, and pay for Airframe Electricity (AERM 1345), Hydraulic & Pneumatics (AERM 1349), Fuel Metering (AERM 1357), and Turbine Engine Theory (AERM 1351) at TCC to receive credit for this course. These classes are all taught at TCC-Alliance. Students must have their own transportation.

# Public Services



Education &  
Training

## Public Services Endorsement

Program of Study Course Sequence	9th. Grade	10th. Grade	11th. Grade	12th. Grade
<b>Education and Training</b>	<b>Principles of Human Services</b> (1 Credit)	<b>Human Growth and Development</b> (1 Credit) <i>Prerequisite:</i> <i>Principles of Human Services</i>	<b>Instructional Practices</b> (2 Credits) <i>Prerequisite:</i> <i>Human Growth and Development</i>	<b>Practicum in Education &amp; Training</b> (2 Credits) <i>Prerequisite:</i> <i>Instructional Practices</i>

Certifications / Certificate Opportunities Based on Program of Study
CPR Certification / BLS Education Fundamentals Pre-Pac Certification
Career and Technical Student Organization (CTSO)
FCCLA—Family Career & Community Leaders of America TAFE—Texas Association of Future Educators

Additional Course Information
<b>Fees:</b> Career and Technical Student Organizations are co-curricular to the curriculum. Although membership is not required, it is highly encouraged for students to join their local CTSO chapter. Fees may apply.

PRINCIPLES OF HUMAN SERVICES	
GRADE: 9-11	CREDIT: .1
TEDS: 13024200	KISD: 82100
RECOMMENDED PREREQUISITE: None	

This laboratory course will enable students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, education and training, hospitality, fashion and interior design, and personal care services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

HUMAN GROWTH AND DEVELOPMENT	
GRADE: 10-12	CREDIT: 1
TEDS: 13014300	KISD: 81501
RECOMMENDED PREREQUISITE: Principles of Human Services or Principles of Education	

Human Growth and Development is an examination of human development across the lifespan with emphasis upon research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones. The course covers material that is generally taught in a postsecondary, one-semester introductory course in Developmental Psychology or Human Development.

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## INSTRUCTIONAL PRACTICES

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GRADE: 11-12 CREDIT: 2

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TEDS: 13014400 KISD: 81502

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RECOMMENDED PREREQUISITE: Human  
Growth and Development

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

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## PRACTICUM IN EDUCATION AND TRAINING

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GRADE: 12 CREDIT: 2

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TEDS: 13014500 KISD: 81504

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RECOMMENDED PREREQUISITE: Instructional  
Practices

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



## Public Services Endorsement

Program of Study Course Sequence	9th. Grade	10th. Grade	11th. Grade	12th. Grade
<b>Health Science: Biomedicine</b>	<b>Medical Terminology</b> (1 Credit)	<b>Health Science Theory</b> (1 Credit) <i>Prerequisite:</i> <b>**Principles of Health Science, Medical Terminology, and Biology</b>	<b>Medical Microbiology</b> (1 Credit) <b>AND Anatomy and Physiology (at KCAL)</b> (1 Credit) <i>Prerequisite: Health Science Theory and Biology</i>	<b>World Health Research</b> (1 Credit) <b>AND Pathophysiology</b> (1 Credit) <i>Prerequisite:</i> <b>3 credits in Health Science Program</b>
<b>Health Science: Clinical Rotations</b>	<b>Medical Terminology</b> (1 Credit)	<b>Health Science Theory</b> (1 Credit) <i>Prerequisite:</i> <b>**Principles of Health Science, Medical Terminology, and Biology</b>	<b>Anatomy and Physiology (home campus)</b> (1 Credit) <b>AND Practicum in Health Science I Clinical Rotations</b> (2 Credits) <i>Prerequisite: Health Science Theory and Biology</i>	<b>Practicum in Health Science II Clinical Rotations</b> (2 Credits) <b>OR Practicum in Health Science II PCT</b> (2 Credits) <i>Prerequisite: Health Science Theory and Biology</i>
<b>Health Science: Certified Nursing Assistant (CNA)</b>	<b>Medical Terminology</b> (1 Credit)	<b>Health Science Theory</b> (1 Credit) <i>Prerequisite:</i> <b>**Principles of Health Science, Medical Terminology, and Biology</b>	<b>Anatomy and Physiology (home campus)</b> (1 Credit) <b>AND Practicum in Health Science I CNA</b> (2 Credits) <i>Prerequisite: Health Science Theory and Biology</i>	<b>Practicum in Health Science II CNA</b> (2 Credits) <b>OR Practicum in Health Science II PCT</b> (2 Credits) <i>Prerequisite: Health Science Theory and Biology</i>
<b>Health Science: Emergency Medical Technician (EMT)</b>	<b>Medical Terminology</b> (1 Credit)	<b>Health Science Theory</b> (1 Credit) <i>Prerequisite:</i> <b>**Principles of Health Science, Medical Terminology, and Biology</b>	<b>Anatomy and Physiology (at KCAL)</b> (1 Credit) <b>AND Pathophysiology</b> (1 Credit) <i>Prerequisite: Health Science Theory and Biology</i>	<b>Practicum in Health Science I EMT</b> (2 Credits) <i>Prerequisite: Health Science Theory and Biology</i>
<b>Health Science: Pharmacy</b>	<b>Medical Terminology</b> (1 Credit)	<b>Health Science Theory</b> (1 Credit) <i>Prerequisite:</i> <b>**Principles of Health Science, Medical Terminology, and Biology</b>	<b>Practicum in Health Science I Pharmacy</b> (2 Credits) <i>Prerequisite: Health Science Theory and Biology</i>	<b>Practicum in Health Science II Pharmacy</b> (2 Credits) <i>Prerequisite: Health Science Theory and Biology</i>
<b>Health Science: Sports Medicine</b>	<b>Medical Terminology</b> (1 Credit)	<b>Sports Medicine I</b> <i>Prerequisite:</i> <b>**Principles of Health Science, Medical Terminology, and Biology</b>	<b>Anatomy and Physiology</b> (1 credit) <b>AND Sports Medicine II</b> (1 credit) <i>Prerequisite: Sports Medicine I</i>	<b>Practicum in Health Science I Sports Medicine</b> (2 Credits) <i>Prerequisite: Sports Medicine II</i>

*\*Classes that are shaded gray will be taught at the Keller Center for Advanced Learning*

*\*\*Principles of Health Science is offered in 8<sup>th</sup> grade.\*\**

Certifications / Certificate Opportunities Based on Program of Study
CPR (Biomedicine) OSHA (Biomedicine) Certified Nursing Assistant (CNA) CPR/First Aid (BLS) (CNA, Clinical Rotations) Phlebotomy Technician (PCT) Certified Patient Care Technician (CPhT) (PCT) EKG Technician (PCT) Emergency Medical Technician (EMT) Certified Pharmacy Technician (CPhT) (Pharmacy) Sterile Products Aseptic Technique Certified (Pharmacy) OSHA HealthCare Certified (Pharmacy) HealthCare Provider CPR (Pharmacy) AHA Basic Life Support Certification (Sports Medicine)
Career and Technical Student Organization (CTSO)
HOSA—Health Occupation Students of America

Additional Course Information
<p><b>Credits:</b> Anatomy &amp; Physiology, Medical Microbiology, Pathophysiology can be used as a science credit.</p> <p><b>Fees:</b> Career and Technical Student Organizations are co-curricular to the curriculum. Although membership is not required, it is highly encouraged for students to join their local CTSO chapter. Fees may apply.</p> <p><b>Location:</b>  Courses shaded in gray will be held at the Keller Center for Advanced Learning.</p>

MEDICAL TERMINOLOGY	
GRADE: 9-12	CREDIT: 1
TEDS: 13020300	KISD: 81801
RECOMMENDED PREREQUISITE: None	

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

HEALTH SCIENCE THEORY	
GRADE: 10-12	CREDIT: 1
TEDS: 13020400	KISD: 81803
PREREQUISITE: Principles of Health Science**, Medical Terminology, and Biology	

The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands on experiences for continued knowledge and skills development. The course may be taught by different methodologies such as clinical rotation and career preparation learning.

ANATOMY AND PHYSIOLOGY	
GRADE: 10-12	<input checked="" type="checkbox"/> CREDIT: 1
TEDS: 13020600	KISD: 81820
PREREQUISITE: Biology and a second science credit	

This course offers a comprehensive study of the structures and functions of the human body. It will include dissections and the study of the organization of organs and organ systems. Students will utilize critical thinking skills and scientific problem solving as they conduct lab investigations. To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b)(2)(C) of this title (relating to Description of a Required Secondary Curriculum). This course counts as a science credit. It is taught at the all main campuses and at the Keller Center for Advanced Learning.

MEDICAL MICROBIOLOGY	
GRADE: 11-12	<input checked="" type="checkbox"/> CREDIT: 1
TEDS: 13020700	KISD: 81821
PREREQUISITE: Health Science Theory, Biology, and Chemistry	

This science elective course is designed to explore medical based microbiology. The student will discover relationships between microbes and health maintenance as well as the role of microbes in infectious diseases. To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b)(2)(C) of this title (relating to Description of a Required Secondary Curriculum). This course counts as a science credit. Class is taught at the Keller Center for Advanced Learning.



PATHOPHYSIOLOGY		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 13020800		KISD: 81822
PREREQUISITE: Health Science Theory, Biology, and Chemistry		

In this course students conduct laboratory investigations and fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving. Students study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of diseases. Students will differentiate between normal and abnormal physiology. To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b)(2)(C) of this title (relating to Description of a Required Secondary Curriculum). This course counts as a science credit. Class is taught at the Keller Center for Advanced Learning.

WORLD HEALTH RESEARCH		
GRADE: 12		CREDIT: 1
TEDS: 13020900		KISD: 81823
PREREQUISITE: Medical Terminology		

This course examines major world health problems and emerging technologies as solutions to these medical concerns. The course is designed to improve students' understanding of the cultural, infrastructural, political, educational, and technological constraints and inspire ideas for appropriate technological solutions to global medical care issues. Class is taught at the Keller Center for Advanced Learning.

SPORTS MEDICINE I		
GRADE: 9-12		CREDIT: 1
TEDS: N1150040		KISD: 81831
RECOMMENDED PREREQUISITE: Medical Terminology		

Sports Medicine I provides an opportunity for the study and application of the components of sports medicine. This class will not count towards a CTE credit but it enhances the pathway experience. It does count toward a sports medicine endorsement.

SPORTS MEDICINE II		
GRADE: 10-12		CREDIT: 1
TEDS: N1150041		KISD: 81832
RECOMMENDED PREREQUISITE: Sports Medicine I		

Sports Medicine II involves outside-of-class time homework and time required working with athletes and athletic teams. This class will not count towards a CTE credit but it enhances the pathway experience. It does count toward a sports medicine endorsement.

PRACTICUM IN HEALTH SCIENCE CLINICAL ROTATIONS		
GRADE: 11-12		CREDIT: 2
TEDS LEVEL 1: 13020500		KISD Level 1: 81812
TEDS LEVEL 2: 13020510		KISD Level 2: 81842
PREREQUISITE: Health Science Theory and Biology		

The Practicum in Health Science is designed to give students practical applications of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Keller ISD offers 6 practicum opportunities throughout the district. An online district application will be emailed after registration is complete. Students will be asked to rate the Practicum class in order of preference. Due to class size limitations, it is possible a student will not get their first choice. The clinical rotations class will occur in various settings including hospital, clinical, and classroom. Students will be required to comply with HIPAA requirements. Class is taught at the Keller Center for Advanced Learning.

**PRACTICUM IN  
HEALTH SCIENCE  
CNA (CERTIFIED  
NURSING ASSISTANT)**

GRADE: 11-12	CREDIT: 2
TEDS LEVEL 1: 13020500	KISD Level 1: 81816
TEDS LEVEL 2: 13020510	KISD Level 2: 81846
PREREQUISITE: Health Science Theory and Biology	

The Practicum in Health Science is designed to give students practical applications of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Keller ISD offers 6 practicum opportunities throughout the district. An online district application will be emailed after registration is complete. Students will be asked to rate the Practicum class in order of preference. Due to class size limitations, it is possible a student will not get their first choice. The Certified Nursing Assistant (C.N.A.) practicum is designed to provide an opportunity to gain a nationally recognized certification after passing the C.N.A. certification examination. To qualify for the examination, one must be able to pass a criminal background/drug screening and have successfully passed the classroom portion of the class. Students will be required to comply with HIPAA requirements. Class is taught at the Keller Center for Advanced Learning.

**PRACTICUM IN  
HEALTH SCIENCE  
PCT (PATIENT CARE  
TECHNICIAN)**

GRADE: 12	CREDIT: 2
TEDS: 13020510	KISD: 81849
PREREQUISITE: Practicum in Health Science 1 C.N.A. or Clinical Rotations	

The Practicum in Health Science is designed to give students practical applications of previously studied knowledge and skills in CNA or Clinical Rotations. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Keller ISD offers 6 practicum opportunities throughout the district. An online district application will be emailed after registration is complete. The Patient Care Technician (PCT) practicum is designed to provide an opportunity to gain a nationally recognized certification after passing the PCT, Phlebotomy Technician, and Electro-cardiogram (EKG) Technician national certification examination. To qualify for the examination, one must be able to pass a criminal background/drug screening and have successfully passed the classroom and technical portions of the class. The technical portion will include reading EKG's correctly, performing phlebotomy skills on both artificial and live patients, and performing basic nursing skills. Students will be required to comply with HIPAA requirements. Class is taught at the Keller Center for Advanced Learning.

**PRACTICUM IN  
HEALTH SCIENCE  
EMERGENCY  
MEDICAL  
TECHNICIAN**

GRADE: 12	CREDIT: 2
TEDS: 13020500	KISD: 81815
PREREQUISITE: Health Science Theory and Biology	

The Practicum in Health Science is designed to give students practical applications of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Keller ISD offers 6 practicum opportunities throughout the district. An online district application will be emailed after registration is complete. Students will be asked to rate the Practicum class in order of preference. Due to class size limitations, it is possible a student will not get their first choice. In the E.M.T. program, students will be provided opportunities to work in hospital settings, ambulance services, and may be assigned to firehouses in order to experience first-hand the challenges of Emergency Medical Technicians. Students enrolled in this course will be provided the knowledge and skills training to prepare and successfully complete the exam required for E.M.T. Upon completion of the course and successfully passing the national exam, students will be eligible to continue to the next level of training at Tarrant County College. Students will be required to comply with HIPAA requirements. Class is taught at the Keller Center for Advanced Learning.

PRACTICUM IN HEALTH SCIENCE PHARMACY	
GRADE: 11-12	CREDIT: 2
TEDS LEVEL 1: 13020500	KISD Level 1: 81818
TEDS LEVEL 2: 13020510	KISD Level 2: 81848
PREREQUISITE: Health Science Theory and Biology	

The Practicum in Health Science is designed to give students practical applications of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Keller ISD offers 6 practicum opportunities throughout the district. An online district application will be emailed after registration is complete. Students will be asked to rate the Practicum class in order of preference. Due to class size limitations, it is possible a student will not get their first choice. The Pharmacy Technician practicum is designed to provide an opportunity to gain a nationally recognized certification after passing the Pharmacy Technician Certification Board examination. To qualify for the examination, students must be able to pass a criminal background screening and have graduated from high school. Students will be required to comply with HIPAA requirements. Class is taught at the Keller Center for Advanced Learning.

PRACTICUM IN HEALTH SCIENCE SPORTS MEDICINE	
GRADE: 12	CREDIT: 2
TEDS: 13020500	KISD: 81817
PREREQUISITE: Sports Medicine II	

The Practicum in Health Science is designed to give students practical applications of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Keller ISD offers 6 practicum opportunities throughout the district. An online district application will be emailed after registration is complete. Students will be asked to rate the Practicum class in order of preference. Due to class size limitations, it is possible a student will not get their first choice. The Sports Medicine Practicum course will provide an opportunity for the study and application of the components of sports medicine, including but not limited to sports medicine-related careers; organizational and administrative considerations; prevention of athletic injuries; recognition, evaluation, and immediate care of athletic injuries; rehabilitation and management skills; taping and wrapping techniques; first aid/CPR/AED; emergency procedures; nutrition; sports psychology; human anatomy and physiology; therapeutic modalities; and therapeutic exercise.



## Human Services

### ***Public Services Endorsement***

Program of Study Course Sequence	9th. Grade	10th. Grade	11th. Grade	12th. Grade
<b>Cosmetology</b>		<b>Professional Communications</b> (.5 credit) <b>and Touch System Data Entry</b> (.5 credit)	<b>Cosmetology I/ Cosmetology I Lab</b> (3 Credits)	<b>Cosmetology II</b> (2 Credits) <b>AND Nail Care, Enhancements, and Spa Services</b> (2 Credits) <i>Prerequisite: Cosmetology I/ Cosmetology I Lab</i>
<b>Counseling and Mental Health</b>	<b>Principles of Human Services</b> (1 Credit)	<b>Human Growth and Development</b> (1 Credit) <i>Prerequisite: Principles of Human Services</i>	<b>Counseling and Mental Health</b> (1 Credit) <i>Prerequisite: Human Growth and Development</i>	<b>Practicum in Human Services</b> (2 Credits) <i>Prerequisite: 3 Credits in Human Services</i>
<b>Child Guidance</b>	<b>Principles of Human Services</b> (1 Credit)	<b>Child Development</b> (1 Credit) <i>Prerequisite: Principles of Human Services</i>	<b>Child Guidance</b> (2 Credits) <i>Prerequisite: Child Development</i>	<b>Practicum in Human Services</b> (2 Credits) <i>Prerequisite: 3 Credits in Human Services</i>

*\*Classes that are shaded gray will be taught at the Keller Center for Advanced Learning*

<b>Cosmetology- 4 Year Plan</b>								
<b>Freshman</b>	English I	Algebra I	Biology	World Geography	Language Level 1	Professional Communications/ Touch Systems	Fine Art	Elective
<b>Sophomore</b>	English II	Geometry	IPC, Physics, Chemistry	World History	Language Level 2	PE	Elective	Elective
<b>Junior</b>	English III	Algebra II or MMA	Advanced 3rd Science	U.S. History	Elective	Cosmetology I	Cosmetology I	Cosmetology I
<b>Senior</b>	Advanced English Course	Algebra II or Advanced 4th Math	Advanced 4th Science	Government / Economics	Cosmetology II	Cosmetology II	Nail Care	Nail Care
In order to be eligible for the Cosmetology program of study, it is suggested that you have an intentional four-year plan. Above you will find the recommended sequence for high school graduation and completion of the cosmetology program.								

Certifications / Certificate Opportunities Based on Program of Study	Additional Course Information
<p>TDLR—Texas Department of License and Regulation Cosmetology License (Cosmetology)</p> <p>BLS (Child Guidance)</p>	<p><b>Fees:</b> Career and Technical Student Organizations are co-curricular to the curriculum. Although membership is not required, it is highly encouraged for students to join their local CTSO chapter. Fees may apply.</p> <p><b>Location:</b> Courses shaded in gray will be held at the Keller Center for Advanced Learning</p>
Career and Technical Student Organization (CTSO)	
<p>SkillsUSA (Cosmetology)</p> <p>FCCLA—Family Career &amp; Community Leaders of America (Counseling &amp; Mental Health, Child Guidance)</p> <p>TAFE—Texas Association of Future Educators (Counseling &amp; Mental Health, Child Guidance)</p>	

PROFESSIONAL COMMUNICATIONS	
GRADE: 9-12	CREDIT: .5
TEDS: 13009900	KISD: 1465
PREREQUISITE: None	

Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this text, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.

TOUCH SYSTEM DATA ENTRY	
GRADE: 9-12	CREDIT: .5
TEDS: 13011300	KISD: 81403
RECOMMENDED PREREQUISITE: None	

Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will need to apply touch system data entry for production of business documents. **This course is also available online through the Keller ISD Virtual Learning Program.**

COSMETOLOGY I / COSMETOLOGY I LAB	
GRADE: 11-12	CREDIT: 3
TEDS: 13025210	KISD: 83201
RECOMMENDED PREREQUISITE: None	

Students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the Texas Department of Licensing and Regulation requirements for licensure upon passing the state examination. Analysis of career opportunities, requirements, expectations, and development of workplace skills are included. Class is taught at the Keller Center for Advanced Learning.

COSMETOLOGY II	
GRADE: 11-12	CREDIT: 2
TEDS: 13025300	KISD: 82202
RECOMMENDED PREREQUISITE: Cosmetology I/Cosmetology I Lab	

Students review academic knowledge and skills related to cosmetology. This course is designed to provide advanced training for employment in cosmetology careers. Instruction includes training in sterilization and sanitation processes, hair care, nail care and skin care and meets the Texas Department of Licensing and Regulation requirements for licensure upon passing the state examination. Students apply, combine, and justify knowledge skills to a variety of settings and problems. Class is taught at the Keller Center for Advanced Learning concurrently with Nail Care, Enhancements, and Spa Services.

NAIL CARE, ENHANCEMENTS, AND SPA SERVICES	
GRADE: 11-12	CREDIT: 2
TEDS: N1302531	KISD: 82204
RECOMMENDED PREREQUISITE: Cosmetology I/Cosmetology I Lab	

This course provides students additional lab time to develop proficient and mastery level cosmetology skills and techniques as required by Texas Department of Licensing and Regulation licensing standards. Students are expected to develop proficient and mastery level work samples and to expand their work experiences. Class is taught at the Keller Center for Advanced Learning concurrently with Cosmetology II.

PRINCIPLES OF HUMAN SERVICES	
GRADE: 9-11	CREDIT: 1
TEDS: 13024200	KISD: 82100
RECOMMENDED PREREQUISITE: None	

This laboratory course will enable students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, education and training, hospitality, fashion and interior design, and personal care services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

HUMAN GROWTH AND DEVELOPMENT	
GRADE: 10-12	CREDIT: 1
TEDS: 13014300	KISD: 81501
RECOMMENDED PREREQUISITE: Principles of Human Services	

Human Growth and Development is an examination of human development across the lifespan with emphasis upon research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones. The course covers material that is generally taught in a postsecondary, one-semester introductory course in Developmental Psychology or Human Development.

COUNSELING AND MENTAL HEALTH	
GRADE: 10-12	CREDIT: 1
TEDS: 13024600	KISD: 82102
RECOMMENDED PREREQUISITE: Human Growth and Development	

Students model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students are expected to apply knowledge of ethical and legal responsibilities, limitations, and the implications of their actions. Professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities.

CHILD DEVELOPMENT	
GRADE: 9-12	CREDIT: 1
TEDS: 13024700	KISD: 82103
RECOMMENDED PREREQUISITE: Principles of Human Services	

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

CHILD GUIDANCE	
GRADE: 10-12	CREDIT: 2
TEDS: 13024800	KISD: 82104
RECOMMENDED PREREQUISITE: Child Development	

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

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PRACTICUM IN HUMAN SERVICES	
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GRADE: 12	CREDIT: 2
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TEDS: 13025000	KISD: 82106
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RECOMMENDED PREREQUISITE: 3 credits of Human Services courses	
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Practicum in Human Services provides occupationally specific training and focuses on the development of consumer services, early childhood development and services, counseling and mental health services, and family and community services careers. Content for Practicum in Human Services is designed to meet the occupational preparation needs and interests of students and should be based upon the knowledge and skills selected from two or more courses in a coherent sequence in the human services cluster as well as the essential knowledge and skills. Class is taught at the Keller Center for Advanced Learning.



## *Public Services Endorsement*

Reserve Officer Training Corp (ROTC)*				
Program of Study Course Sequence	9th. Grade	10th. Grade	11th. Grade	12th. Grade
<b>Military Science</b>	<b>ROTC I</b> (1 Credit)	<b>ROTC II</b> (1 Credit) <i>Prerequisite:</i> <i>ROTC I</i>	<b>ROTC III</b> (1 credit) <i>Prerequisite:</i> <i>ROTC II</i>	<b>ROTC IV</b> (1 credit) <i>Prerequisite:</i> <i>ROTC III</i>

**\*Denotes non-CTE pathway**

Certifications / Certificate Opportunities Based on Program of Study	Additional Course Information
Leadership and College Scholarship Opportunities	<p style="text-align: center;"><b><i>All ROTC Courses Include:</i></b></p> <p>Wellness and Physical Training (PT): provides a standardized, facility variations minded curriculum offering substantial individual health improvements. The objective is to motivate cadets to lead healthy, active lifestyles. PT/Wellness provides leadership opportunities, builds esprit de corps, and increases cadet confidence.</p>
<b>Career and Technical Student Organization (CTSO)</b>	
Air Force ROTC	

<b>ROTC 1</b> <b>LEADERSHIP EDUCATION I</b> <b>(LE - 1)</b> <b>AEROSPACE SCIENCE I</b> <b>(AS - 1)</b>	
GRADE: 9-12	CREDIT: 1
TEDS: 03160100	KISD: 50403
RECOMMENDED PREREQUISITE: None	

The first half of the sixty-hour course is dedicated to leadership studies relating directly to citizenship, individual self-control, time management, stress management, study skills, and wellness and fitness. Wearing of the uniform, customs and courtesies and basic drill skills are introduced. The aerospace science half of the course is designed to acquaint the student with the historical development of flight and the role of the military in history. Over half of the course describes the makeup of the aerospace community and the United States Air Force.

<b>ROTC 2</b> <b>LEADERSHIP EDUCATION</b> <b>II (LE - 2)</b> <b>AEROSPACE SCIENCE II</b> <b>(AS - 2)</b>	
GRADE: 10-12	CREDIT: 1
TEDS: 03160200	KISD: 5153
RECOMMENDED PREREQUISITE: ROTC 1	

This science course is designed to acquaint the student with navigation and human limitations of flight. The course begins with a discussion of the atmosphere and weather. The study is expanded to include the planets and space beyond our solar system. After developing an understanding of the environment, how that environment affects flight is introduced. Discussions include the forces of lift, drag, thrust, and weight. Students also learn basic navigation including map reading, course plotting, and the effects of wind. The portion of the Human Requirements of flight is a survey course on human physiology. Discussed here is the human circulatory system, the effects of acceleration and deceleration, protective equipment and space environment. Leadership hours' stress communications and skills cadet corps activities. Written reports and speeches complement academic materials. Cadet corps activities include holding positions of greater responsibility in the planning and executing of corps projects.

<b>ROTC 3</b> <b>LEADERSHIP EDUCATION</b> <b>III (LE - 3)</b> <b>AEROSPACE SCIENCE III</b> <b>(AS - 3)</b>	
GRADE: 10-12	CREDIT: 1
TEDS: 03160300	KISD: 5163
RECOMMENDED PREREQUISITE: ROTC 2	

The third year is a science course, which discusses principles of propulsion system, fundamentals of rocketry and its application to spacecraft, principles of underlying space travel, and various aspects of space exploration. This year's materials are perhaps the most technical. Turbojet, turbofan, rocket, reciprocating engines, and a detailed examination of propulsion systems are explained. Rocketry and spacecraft portions cover rocket propulsion, guidance, and control and orbits. The space travel section further discusses the development, use and future of artificial earth satellites, and interplanetary probes. Leadership hours continue emphasis on written and oral communication skills. Additionally, basic management skills such as planning, directing, and controlling are introduced. Third year cadets put these skills into practice by holding key leadership positions in the cadet corps.

<b>ROTC 4</b> <b>LEADERSHIP EDUCATION</b> <b>IV (LE - 4)</b> <b>AEROSPACE SCIENCE IV</b> <b>(AS - 4)</b>	
GRADE: 10-12	CREDIT: 1
TEDS: 03160400	KISD: 5173
RECOMMENDED PREREQUISITE: ROTC 3	

This fourth year is a civics course. Subjects covered include civil aviation's primary features and impact on our society, careers available in the civil and military aerospace community and descriptions and uses of modern aerospace vehicles. The civil aviation portion of the course adds to the basic knowledge of the aerospace industry given in AS-1. This information sets the stage for the discussion on careers in aerospace. The careers section not only describes career options and educational possibilities; it also provides practical advice for the new job hunter. The academic section fine-tunes developing communication skills and top-level cadet corps jobs provide a laboratory to experiment with newly learned leadership and management skills.



## Public Services Endorsement

Program of Study Course Sequence	9th. Grade	10th. Grade	11th. Grade	12th. Grade
<b>Court Law</b>	<b>Principles of Law, Public Safety, Corrections, and Security</b> (1 Credit)	<b>Law Enforcement I</b> (1 Credit) <i>Prerequisite:</i> <i>Principles of Law &amp; Public Safety</i>	<b>Court Systems and Practices</b> (1 Credit) <b>and Correctional Services</b> (1 Credit) <i>Prerequisite:</i> <i>Law Enforcement I</i>	<b>Practicum in Law, Public Safety, Corrections, and Security</b> (2 Credits) <i>Prerequisite:</i> <i>3 credits in the Law Program</i>
<b>Law Enforcement-Police</b>	<b>Principles of Law, Public Safety, Corrections, and Security</b> (1 Credit)	<b>Law Enforcement I</b> (1 Credit) <i>Prerequisite:</i> <i>Principles of Law &amp; Public Safety</i>	<b>Forensic Science</b> (1 Credit) <b>and</b> <b>Forensic Psychology</b> (1 Credit) <i>Prerequisite:</i> <i>Law Enforcement I, Biology, and Chemistry</i>	<b>Law Enforcement II</b> (1 Credit) <b>and</b> <b>Criminal Investigation</b> (1 Credit) <i>Prerequisite:</i> <i>3 credits in the Law Program</i>

*Classes that are shaded gray will be taught at the Keller Center for Advanced Learning*

Certifications / Certificate Opportunities Based on Program of Study	Additional Course Information
CPR/First Aid (Court Law, Law Enforcement-Police)  OSHA (Court Law)  National Incident Management System (NIMS) (Law Enforcement-Police)	<b>Credits:</b> Forensic Science can be used as a science credit.  <b>Fees:</b> Career and Technical Student Organizations are co-curricular to the curriculum. Although membership is not required, it is highly encouraged for students to join their local CTSO chapter. Fees may apply.  <b>Location:</b> Courses shaded in gray will be held at the Keller Center for Advanced Learning.
<b>Career and Technical Student Organization (CTSO)</b>	
SkillsUSA	

<b>PRINCIPLES OF LAW, PUBLIC SAFETY, CORRECTIONS, AND SECURITIES</b>	
GRADE: 9-11	CREDIT: 1
TEDS: 13029200	KISD: 82400
RECOMMENDED PREREQUISITE: None	

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

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## LAW ENFORCEMENT I

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GRADE: 9-12 CREDIT: 1

TEDS: 13029300 KISD: 82411  
RECOMMENDED PREREQUISITE: Principles of  
Law, Public Safety, Corrections, and Security

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Law Enforcement 1 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.

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## COURT SYSTEMS AND PRACTICES

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GRADE: 10-12 CREDIT: 1

TEDS: 13029600 KISD: 82422  
RECOMMENDED PREREQUISITE: Law  
Enforcement 1

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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. Class is taught at the Keller Center for Advanced Learning.

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## CORRECTIONAL SERVICES

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GRADE: 9-11 CREDIT: 1

TEDS: 13029700 KISD: 82423  
RECOMMENDED PREREQUISITE: Law  
Enforcement 1

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

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## PRACTICUM IN LAW, PUBLIC SAFETY, CORRECTIONS, AND SECURITIES

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GRADE: 12 CREDIT: 2

TEDS: 13030100 KISD: 82461  
RECOMMENDED PREREQUISITE: 3 credits in  
Law Program

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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. Class is taught at the Keller Center for Advanced Learning.

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## FORENSIC SCIENCE

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GRADE: 10-12 CREDIT: 1

TEDS: 13029500 KISD: 88370  
RECOMMENDED PREREQUISITE: Law  
Enforcement I, Biology, and Chemistry

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

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## FORENSIC PSYCHOLOGY

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GRADE: 9-12 CREDIT: 1

PEIMS: N1303012 KISD: 82424  
RECOMMENDED PREREQUISITE: Principles of  
Law, Public Safety, Security & Corrections

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Forensic Psychology utilizes and applies basic skills developed in psychology to criminal behavior and criminal scenarios resulting in a structured and scientific approach to investigative analysis, which enables police or law enforcement officials to predict criminal activity based upon mathematical/scientific data versus abstract intuition.

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## LAW ENFORCEMENT II

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GRADE: 10-12 CREDIT: 1

TEDS: 13029400 KISD: 82412

RECOMMENDED PREREQUISITE: 3 courses in  
Law Program

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Law Enforcement 2 provides the knowledge and skills necessary to prepare for a career in law enforcement. This course includes the ethical and legal responsibilities, operation of police and emergency telecommunication equipment, courtroom testimony. Class is taught at the Keller Center for Advanced Learning.

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## CRIMINAL INVESTIGATION

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GRADE: 10-12 CREDIT: 1

TEDS: 13029550 KISD: 82421

RECOMMENDED PREREQUISITE 3 credits in Law  
program

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In this course, students will be introduced to the profession of criminal investigations. Students will understand basic functions of criminal investigations and procedures and will learn how to investigate or follow up during investigations. Students will learn terminology and investigative procedures related to criminal investigation, crime scene processing, evidence collection, fingerprinting, and courtroom presentation. Through case studies and simulated crime scenes, students will collect and analyze evidence such as fingerprint analysis, bodily fluids, hairs, fibers, shoe and tire impressions, bite marks, drugs, tool marks, firearms and ammunition, blood spatter, digital evidence, and other types of evidence. Class is taught at the Keller Center for Advanced Learning.

# STEM



Science,  
Technology,  
Engineering &  
Mathematics

## STEM Endorsement – Science\*

Program of Study Course Sequence	9th. Grade	10th. Grade	11th. Grade	12th. Grade
<b>Biology</b>	<b>Biology</b> (1 Credit)	<b>Chemistry</b> (1 Credit) <i>Required Prerequisite:</i> 1 Science and Algebra 1	<b>Physics (1 Credit) and Anatomy and Physiology (1 Credit)</b> <i>Prerequisite:</i> 2 credits in Science	<b>AP Biology</b> (1 credit) <i>Prerequisite:</i> 3 credits in Science
<b>Chemistry</b>	<b>Biology</b> (1 Credit)	<b>Chemistry</b> (1 Credit) <i>Required Prerequisite:</i> 1 Science and Algebra 1	<b>Physics (1 Credit) and AP Biology (1 Credit)</b> <i>Prerequisite:</i> 2 credits in Science	<b>AP Chemistry</b> (1 Credit) <i>Prerequisite:</i> 3 credits in Science
<b>Environmental Science</b>	<b>Biology</b> (1 Credit)	<b>Chemistry</b> (1 Credit) <i>Required Prerequisite:</i> 1 Science and Algebra 1	<b>Physics (1 Credit) and Aquatic Science (1 Credit)</b> <i>Prerequisite:</i> 2 credits in Science	<b>Environmental Systems or AP Environmental Science</b> (1 credit) <i>Prerequisite:</i> 3 credits in Science
<b>Physics</b>	<b>Biology</b> (1 Credit)	<b>Chemistry (1 Credit) and AP Physics 1 (1 Credit)</b> <i>Required Prerequisite:</i> 1 Science and Algebra 1	<b>AP Physics 2 (1 Credit)</b> <i>Prerequisite:</i> Physics 1 and Pre-Cal	<b>AP Physics C: Electricity and Magnetism (1 Credit) OR AP Physics C: Mechanics (1 Credit)</b> <i>Prerequisite:</i> Physics 1 and Pre-Cal
<b>Space Science</b>	<b>Biology</b> (1 Credit)	<b>Chemistry</b> (1 Credit) <i>Required Prerequisite:</i> 1 Science and Algebra 1	<b>Physics (1 Credit) and Earth and Space Science (1 Credit)</b> <i>Prerequisite:</i> 2 credits in Science	<b>Astronomy</b> (1 Credit) <i>Prerequisite:</i> 3 credits in Science

*Classes that are shaded gray will be taught at the Keller Center for Advanced Learning*

\*Denotes non-CTE pathway

B I O L O G Y		
GRADE: 9-11	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03010200		KISD: 3103
RECOMMENDED PREREQUISITE: None		

In Biology, students conduct field and laboratory investigations, use specific methods during investigations and make informed decisions using critical thinking and scientific problem solving. Students in Biology study a variety of topics that include: structures and 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, living systems, homeostasis, ecosystems and the environment.

B I O L O G Y P R E - A P		
GRADE: 9-11	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03010200		KISD: 3113
RECOMMENDED PREREQUISITE: None		
WEIGHTED: 10 pts.		

Pre-AP Biology is a comprehensive study of biology, ecology, evolution, biochemical pathways, organic and biochemistry, cell biology, genetics, molecular biology, microbiology (which includes invertebrates), taxonomy, embryogenesis, homeostasis and human body systems (immune, lymphatic, digestive, and circulatory system). Students will be expected to show commitment to Pre-AP curriculum and be motivated to utilize higher level thinking skills. The course will also include special projects and a more in-depth study of biological concepts. Pre-AP students should expect to continue in the AP program with a goal of taking the AP test.

A P B I O L O G Y		
GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3010200		KISD: 3123
RECOMMENDED PREREQUISITE: Biology, Chemistry		WEIGHTED: 10 pts.

This course is a comprehensive study of advanced biology designed to prepare students to take the AP Biology Exam. The class covers material a student would encounter in a freshman level college biology class. Special emphasis will be placed on the principles and processes of biology along with understanding the means by which biological information is collected and interpreted. The content of the course will meet College Board standards. Students planning to take the Biology AP Exam would benefit by enrolling in Anatomy and Physiology also. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

C H E M I S T R Y		
GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03040000		KISD: 3303
REQUIRED PREREQUISITE: 1 science and Algebra 1		

In Chemistry, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that included characteristics of matter, use of the Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermochemistry, and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives.

C H E M I S T R Y P R E - A P		
GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03040000		KISD: 3313
REQUIRED PREREQUISITE: 1 science and Algebra 1		WEIGHTED: 10 pts.

Chemistry Pre-AP is a comprehensive study of chemistry, scientific method, lab safety, scientific measurements, properties of matter, atomic structure and its history, quantum numbers, periodic table characteristics and trends, chemical bonding, gas laws, nomenclature of compounds, moles, chemical reactions, stoichiometry, aqueous mixtures, acid/bases and neutralization reactions. The course will be lab based and students will be asked to analyze and evaluate data from lab investigation. Chemistry Pre-AP covers additional rigorous College Board topics that require critical thinking and a higher level of math skills, such as solving equations for variables, exponential and mathematical abstraction. Students should expect a challenging Pre-AP curriculum with the expectation of moving on to AP Chemistry and taking the AP test.

A P C H E M I S T R Y		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3040000		KISD: 3333
RECOMMENDED PREREQUISITE: Chemistry		
WEIGHTED: 10 pts.		

This course is a comprehensive study of advanced chemistry designed to prepare students to take the Chemistry AP Exam. The class covers most of the material a student would encounter in a freshman level college chemistry course. Special emphasis is placed on atomic structure and bonding, thermochemistry, kinetics, equilibrium and electrochemistry. The content of the course will meet College Board standards. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**



P H Y S I C S		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03050000		KISD: 3403
RECOMMENDED PREREQUISITE: Algebra 1		

In Physics, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion, changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics. Students who successfully complete Physics will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with colleagues, and develop critical thinking skills.

A P P H Y S I C S I		
GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3050003		KISD: 3443
RECOMMENDED PREREQUISITE: Geometry WEIGHTED: 10 pts.		

Algebra-Based is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

A P P H Y S I C S II		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS A3050004		KISD: 3453
RECOMMENDED PREREQUISITE: Physics and concurrently in Pre-Calculus WEIGHTED: 10 pts.		

Algebra-Based is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

A P P H Y S I C S C : E L E C T R I C I T Y A N D M A G N E T I S M		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3050005		KISD: 3435
RECOMMENDED PREREQUISITE Physics, Algebra I, Algebra II, Geometry, concurrent Calculus WEIGHTED: 10 pts.		

This course is designed for students interested in pursuing a degree in science, math or engineering. It is a calculus-based approach to physics and focuses on a more in-depth study of electromagnetism. It provides instruction on electrostatics, conductors, capacitors and dielectrics, electric circuits, magnetic fields, and electromagnetism. The course should prepare students for successful completion of the AP Physics C: Electricity and Magnetism Exam. The content of the course will meet College Board standards. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.** Class is taught at the Keller Center for Advanced Learning.

A P P H Y S I C S C : M E C H A N I C S		
GRADE: 11-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: A3050006		KISD: 3434
RECOMMENDED PREREQUISITE Physics, Algebra I, Algebra II, Geometry, concurrent Calculus WEIGHTED: 10 pts.		

This course is designed for students interested in pursuing a degree in science, math or engineering. It is a calculus-based approach to physics and focuses on a more in-depth study of mechanics. It provides instruction on kinematics; Newton's law of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; and oscillations and gravitation. The course should prepare students for successful completion of the AP Physics C: Mechanics Exam. The content of the course will meet College Board standards. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

A N A T O M Y A N D P H Y S I O L O G Y		
GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 13020600		KISD: 3203
PREREQUISITE: Biology and a second science credit		

This course offers a comprehensive study of the structures and functions of the human body. It will include dissections and the study of the organization of organs and organ systems. Students will utilize critical thinking skills and scientific problem solving as they conduct lab investigations. To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b)(2)(C) of this title (relating to Description of a Required Secondary Curriculum).

## AQUATIC SCIENCE

GRADE: 10-12 ☒ CREDIT: 1  
TEDS: 03030000 KISD: 3513  
RECOMMENDED PREREQUISITE: Chemistry  
REQUIRED: Biology

In Aquatic Science, students study the interactions of biotic and abiotic components in aquatic environments, including impacts on aquatic systems. Investigations and fieldwork in this course may emphasize fresh water or marine aspects of aquatic science depending primarily upon the natural resources available for study near the school. Students who successfully complete Aquatic Science will acquire knowledge about a variety of aquatic systems, conduct investigations and observations of aquatic environments, work collaboratively with peers, and develop critical thinking and problem-solving skills.

## ASTRONOMY

GRADE: 11-12 ☒ CREDIT: 1  
TEDS: 03060100 KISD: 3503  
RECOMMENDED PREREQUISITE: 1 credit in science

In Astronomy, students conduct laboratory and field investigations, use scientific methods, and make informed decisions using critical thinking and scientific problem solving. Students study the following topics: astronomy in civilization, patterns and objects in the sky, our place in space, the moon, reason for the seasons, planets, the sun, stars, galaxies, cosmology, and space exploration. Students who successfully complete Astronomy will acquire knowledge within a conceptual framework, conduct observations of the sky, work collaboratively, and develop critical thinking skills.

## EARTH AND SPACE SCIENCE

GRADE: 11-12 ☒ CREDIT: 1  
TEDS: 03060200 KISD: 3573  
REQUIRED PREREQUISITE: 3 credits of science and math (one of which can be taken concurrently)

Earth and Space Science is a capstone course designed to build on students' prior scientific and academic knowledge and skills to develop understanding of Earth's system in space and time. ESS has three strands used throughout each of the three themes: systems, energy, and relevance.

## AP ENVIRONMENTAL SCIENCE

GRADE: 11-12 ☒ CREDIT: 1 -  
TEDS: A3020000 KISD: 3543  
RECOMMENDED PREREQUISITE: Biology, physical science, Algebra 1  
WEIGHTED: 10 pts.

This course is designed to provide students with the scientific principles, concepts, and methodologies required to understand the inter-relationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing the environmental problems.

**AP students prepare to take the Advanced Placement Exam in May for possible college credit.**

## ENVIRONMENTAL SYSTEMS

GRADE: 11-12 ☒ CREDIT: 1  
TEDS: 03020000 KISD: 3533  
RECOMMENDED PREREQUISITE: Biology and 1 credit of physical science

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



Program of Study Course Sequence	9th. Grade	10th. Grade	11th. Grade	12th. Grade
<b>Engineering</b>	<b>Introduction to Engineering Design</b> (1 Credit) <i>Prerequisite: Algebra I</i>	<b>Principles of Engineering</b> (1 Credit) <i>Prerequisite: Introduction to Engineering Design, Algebra I, and Biology</i>	<b>Choose 2 credits from the following 4 courses:</b> <b>Aerospace Engineering</b> (1 Credit), <b>Digital Electronics</b> (1 Credit), <b>Civil Engineering</b> (1 Credit), <b>Robotics I</b> (1 Credit) <i>Prerequisite: Principles of Engineering, Algebra I, and Geometry</i>	<b>Choose 2 credits from the following 5 courses:</b> <b>Engineering Design and Development</b> (1 Credit), <b>Robotics II</b> (1 Credit), <b>Computer Integrated Manufacturing</b> (1 Credit), <b>AP Physics C: Electricity and Magnetism</b> (1 Credit), <b>Practicum in Science, Technology, Engineering, and Math</b> (2 Credits) <i>Prerequisite: 3 credits in Engineering Program</i>

*Classes that are shaded gray will be taught at the Keller Center for Advanced Learning*

Certifications / Certificate Opportunities Based on Program of Study
Multiple Internship Opportunities
Career and Technical Student Organization (CTSO)
KCAL Robotics (Local Chapter)  VEX, BEST, FIRST Robotics Competitions

Additional Course Information
<b>Credits:</b> Digital Electronics and Robotics II can be used as a math credit. Principles of Engineering and AP Physics C: E&M can be used as a science credit.
<b>Fees:</b> Career and Technical Student Organizations are co-curricular to the curriculum. Although membership is not required, it is highly encouraged for students to join their local CTSO chapter. Fees may apply.
<b>Location:</b> Courses shaded in gray will be held at the Keller Center for Advanced Learning.

INTRODUCTION TO ENGINEERING DESIGN	
GRADE: 9-10	CREDIT: 1
TEDS: N1303742	KISD: 82641
RECOMMENDED PREREQUISITE: Algebra I	

This is the foundation course in a series of Project Lead the Way pre-engineering courses designed to introduce the student to the field of engineering. Students will develop problem-solving skills, with emphasis placed upon the concept of developing 3-D models. The course will emphasize the design development process of a product and a model of the product is produced, analyzed, and evaluated, using a Computer Aided Design Systems. Various design applications will be explored with discussion of possible career opportunities. Students who pass the PLTW college-credit exam, given at the end of the course, can receive college credit at PLTW affiliated universities.

## PRINCIPLES OF ENGINEERING

GRADE: 10-12 CREDIT: 1

TEDS: 13037500 KISD: 82642  
PREREQUISITE: Introduction to Engineering Design, Algebra I, and Biology

This foundation course is designed to help students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing process 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. Students who pass the PLTW college-credit exam, given at the end of the course, can receive college credit at PLTW affiliated universities. This course counts as a science credit.

## AEROSPACE ENGINEERING

GRADE: 11-12 CREDIT: 1

TEDS: N1303745 KISD: 82662  
RECOMMENDED PREREQUISITE: Principles of Engineering

This specialization PLTW course applies principles of aeronautics, flight, and engineering. The course will include experiences from diverse fields of aeronautics, aerospace engineering, and related areas of study. It will cover many areas including the following: history of flight; airfoil design, construction, and testing; rocket engine thrust; rocket trajectory; effects of gravity; navigation systems; glider design; intelligent vehicles; and remote sensing. Class is taught at the Keller Center for Advanced Learning.

## DIGITAL ELECTRONICS

GRADE: 11-12 CREDIT: 1

TEDS: 13037600 KISD: 82673  
PREREQUISITE: Principles of Engineering, Algebra I, and Geometry

This is a course in applied logic that encompasses the application of electronic circuits and devices. Computer simulation software is used to design and test digital circuitry prior to the actual construction of circuits and devices. This course counts for a math credit. Class is taught at the Keller Center for Advanced Learning.

## CIVIL ENGINEERING AND ARCHITECTURE

GRADE: 11-12 CREDIT: 1

TEDS: N1303747 KISD: 82644  
PREREQUISITE: Principles of Engineering, Algebra I, and Geometry

In this course, students will learn important aspects of building and site design, and then they apply what they know to design a building. They will use math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3-D architectural design software. Class is taught at the Keller Center for Advanced Learning.

## ROBOTICS I

GRADE: 11-12 CREDIT: 1

TEDS: 13037000 KISD: 82651  
RECOMMENDED PREREQUISITE: Principles of Engineering

Students enrolled in this course will demonstrate knowledge and skills necessary for the robotic and automation industry. Through implementation of the design process, students will transfer advanced academic skills to component designs in a project-based environment. Students will build prototypes or use simulation software to test their designs. Additionally, students explore career opportunities, employer expectations, and educational needs in the robotic and automation industry. Class is taught at the Keller Center for Advanced Learning.

## ROBOTICS II

GRADE: 11-12 CREDIT: 1

TEDS: 13037050 KISD: 82652  
RECOMMENDED PREREQUISITE: Robotics I

In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs. This course counts as a math credit. Class is taught at the Keller Center for Advanced Learning.

## COMPUTER INTEGRATED MANUFACTURING

GRADE: 12 CREDIT: 1

TEDS: N1303748 KISD: 82645  
RECOMMENDED PREREQUISITE: 3 credits in Engineering Program

Manufactured items are part of everyday life, and this course illuminates the opportunities related to understanding manufacturing. In this Project Lead the Way course, students discover and explore manufacturing processes, product design, robotics, and automation, and then they apply what they have learned to design solutions for real-world manufacturing problems. Class is taught at the Keller Center for Advanced Learning.

## ENGINEERING DESIGN AND DEVELOPMENT

GRADE: 12

CREDIT: 1

TEDS: N1303749

KISD: 82643

RECOMMENDED PREREQUISITE: 3 credits in  
Engineering Program

This course is the senior capstone course of the Project Lead the Way pre-engineering sequence. Students will work in teams to research, design, and construct a solution to an open-ended engineering problem. Students apply principles developed in the four preceding courses and are guided by an engineering mentor. Students will present progress reports, submit a final written report, and present their solutions to a panel of outside reviewers at the end of the course. Class is taught at the Keller Center for Advanced Learning.

## AP PHYSICS C: ELECTRICITY AND MAGNETISM

GRADE: 11-12



CREDIT: 1

TEDS: A3050005

KISD: 3435

RECOMMENDED PREREQUISITE Physics,  
Algebra I, Algebra II, Geometry, concurrent  
Calculus

WEIGHTED: 10 pts.

This course is designed for students interested in pursuing a degree in science, math or engineering. It is a calculus-based approach to physics and focuses on a more in-depth study of electromagnetism. It provides instruction on electrostatics, conductors, capacitors and dielectrics, electric circuits, magnetic fields, and electromagnetism. The course should prepare students for successful completion of the AP Physics C: Electricity and Magnetism Exam. The content of the course will meet College Board standards. **AP students prepare to take the Advanced Placement Exam in May for possible college credit.** This course counts as a science credit. Class is taught at the Keller Center for Advanced Learning.

## PRACTICUM IN SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH

GRADE: 12

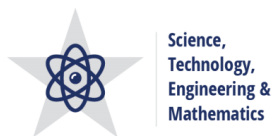
CREDIT: 2

TEDS: 13037400

KISD: 82370

RECOMMENDED PREREQUISITE 3 credits in  
engineering program

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 Engineering cluster. This course is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in STEM 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. Class is taught at the Keller Center for Advanced Learning.



## STEM Endorsement – Math\*

Program of Study Course Sequence	9th. Grade	10th. Grade	11th. Grade	12th. Grade
<b>Math</b>	<b>Required</b> Algebra I, Geometry, and Algebra 2		<b>PICK TWO:</b> Advanced Quantitative Reasoning, Calculus Linear Algebra and Multivariable Calculus, Pre-Calculus, Statistics  <i>Choose the appropriate level and check prerequisites.</i>	

\*Denotes non-CTE pathway

ALGEBRA I		
GRADE: 9	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03100500		KISD: 2003
PREREQUISITE: Grade 8 Mathematics		

Algebra I students build on earlier math experiences, deepening their understanding of relations and functions and expanding their repertoire of familiar linear and quadratic functions, among others. Students learn to combine functions, express functions in equivalent forms, compose functions, and find inverses where possible. Algebra I will provide students with insights into mathematical abstraction and structure through the content strands Foundations for Functions, Linear Functions, and Quadratics and other Non-Linear Functions. It is extremely important for students to learn Algebra I standards in depth, as it is a foundation for other math courses.

ALGEBRA I PRE - AP		
GRADE: 9	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03100500		KISD: 2013
PREREQUISITE: Grade 8 Mathematics		WEIGHTED: 10 pts.

There is a strong expectation that all of the students in a Pre-AP math program are preparing for Advanced Placement Calculus and/or Advanced Placement Statistics. Algebra Pre-AP is designed to prepare students who will be accelerating their math coursework by taking concurrently Algebra II Pre-AP and Geometry Pre-AP in grade 10, or Geometry Pre-AP and Pre-Calculus Pre-AP in grade 11 in order to take Advanced Placement Calculus or Advanced Placement Statistics in their 11<sup>th</sup> or 12<sup>th</sup> grade year of high school. Algebra I Pre-AP students build on earlier math experiences, deepening their understanding of relations and functions and expanding their repertoire of familiar linear and quadratic functions, among others. Algebra I will provide students with insights into mathematical abstraction and structure through the content strands Foundations for Functions, Linear Functions, and Quadratics and other Non-Linear Functions. It is extremely important for students to learn Algebra I standards in depth, as it is a foundation for other math courses.

GEOMETRY		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03100700		KISD: 2213
PREREQUISITE: Algebra I		

High school students develop facility with a broad range of ways of representing geometric ideas – including coordinates, networks, transformations – that allow multiple approaches to geometric problems and that connect geometric interpretations to other contexts. Students learn to recognize connections among different representations, thus enabling them to use these representations flexibly. Students will expand their understanding through other mathematical experiences through the Geometry content strands of Geometric Structure, Geometric Patterns, Dimensionality and the Geometry of Location, Congruence and the Geometry of Size, and Similarity and the Geometry of Shape.



G E O M E T R Y P R E - A P		
GRADE: 9-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03100700		KISD: 2223
PREREQUISITE: Algebra I		WEIGHTED: 10 pts.

There is a strong expectation that all of the students in a Pre-AP math program are preparing for Advanced Placement Calculus and/or Advanced Placement Statistics. Geometry Pre-AP is designed to prepare students who will be accelerating their math coursework by taking concurrently Algebra II Pre-AP and Geometry Pre-AP in grade 10, or Geometry Pre-AP and Pre-Calculus Pre-AP in grade 11 in order to take Advanced Placement Calculus or Advanced Placement Statistics in their 11<sup>th</sup> or 12<sup>th</sup> grade year of high school. Geometry Pre-AP includes the basic understanding of the Geometry curriculum with added rigor, depth, global connections, multiple representations (verbal, algebraic, numerical, graphical, physical), and expectations of sophistication in student work.

A L G E B R A I I		
GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03100600		KISD: 2043
PREREQUISITE: Algebra I		

In Algebra II, students build on Algebra I and Geometry experiences, both deepening their understanding of relations and functions and expanding their repertoire of familiar functions. Students use technological tools to represent and study the behavior of polynomial, exponential, rational, and periodic functions, among others. Students learn to combine functions, express them in equivalent forms, compose functions, and find inverses where possible. Students will come to understand the concept of parent functions and learn to recognize the characteristics of various parent and familiar functions. Algebra II provides students with insights into mathematical abstraction and structure through the content strands of Foundations for Functions, Algebra and Geometry, Quadratic and Square Root Functions, Rational Functions, and Exponential and Logarithmic Functions. Connections will be made between algebra and geometry and the tools of one will be used to help solve problems in the other.

A L G E B R A I I P R E - A P		
GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03100600		KISD: 2033
PREREQUISITE: Algebra I		WEIGHTED: 10 pts.

There is a strong expectation that all of the students in a Pre-AP math program are preparing for Advanced Placement Calculus and/or Advanced Placement Statistics. Algebra II Pre-AP is designed to prepare students who will be taking Advanced Placement Calculus or Advanced Placement Statistics in their 11<sup>th</sup> or 12<sup>th</sup> grade year of high school. Algebra II Pre-AP includes the basic understanding of the Algebra II curriculum with added rigor, depth, global connections, multiple representations (verbal, algebraic, numerical, graphical, physical), and expectations of sophistication in student work.

P R E - C A L C U L U S		
GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03101100		KISD: 2303
PREREQUISITE: Algebra I, II, and Geometry		

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. Students systematically work with functions and their multiple representations. The study of Pre-calculus deepens students' mathematical understanding and fluency with algebra and trigonometry and extends their ability to make connections and apply concepts and procedures at higher levels. Students investigate and explore mathematical ideas, develop multiple strategies for analyzing complex situations, and use technology to build understanding, make connections between representations, and provide support in solving problems.

P R E - C A L C U L U S P R E - A P		
GRADE: 10-12	<input checked="" type="checkbox"/>	CREDIT: 1
TEDS: 03101100		KISD: 2313
PREREQUISITE: Algebra I, II, and Geometry		WEIGHTED: 10 pts.

There is a strong expectation that all of the students in a Pre-AP math program are preparing for Advanced Placement Calculus and/or Advanced Placement Statistics. Pre-Calculus Pre-AP is designed to prepare students who will be taking Advanced Placement Calculus or Advanced Placement Statistics in their 11<sup>th</sup> or 12<sup>th</sup> grade year of high school. Pre-Calculus Pre-AP includes the basic understanding of the Pre-Calculus curriculum with added rigor, depth, global connections, multiple representations (verbal, algebraic, numerical, graphical, physical), and expectations of sophistication in student work.



**DUAL  
PRE-CALCULUS  
UT ON RAMP  
(MATH 2312)**

GRADE: 10-12 CREDIT: 1

TEDS: 03101100 KISD: 2314

PREREQUISITE: Algebra I, II, and Geometry

Students will deepen and extend their knowledge of functions, graphs, and equations from their high school algebra and geometry courses so they can successfully work with the concepts in a rigorous university-level Calculus course. This course is designed to push students well beyond “drill and kill” type exercises, with an emphasis on unpacking mathematical definitions and making logical arguments to their peers. The course is divided into seven units, each unit consists of a series of explorations designed to engage students and empower them to develop their problem-solving skills. In each exploration students will create connections with prior concepts in developing the current topic. Students will experience high quality curriculum designed by the faculty at The University of Texas at Austin and delivered by Keller ISD teachers. Students can earn three hours of UT credit, with feedback and assessment provided by UT course staff.

**CALCULUS**

GRADE: 11-12 ☒ CREDIT: 1

TEDS: 03102500 KISD: 2322

RECOMMENDED PREREQUISITE:  
Pre-Calculus Pre-AP WEIGHTED: 10 pts.

Calculus is designed for college bound students who have taken on level Pre-Calculus. Topics include elementary functions, limits, differential calculus and integral calculus. Applications include problems from business, economics, life sciences and social sciences. Students will also review many college algebra skills to help prepare them for college math placement tests.

**STATISTICS AND  
BUSINESS DECISION  
MAKING**

GRADE: 11-12 CREDIT: 1

TEDS: 13016900 KISD: 81621

RECOMMENDED PREREQUISITE: Accounting  
I and Algebra II

Students will use a variety of graphical and numerical techniques to analyze patterns and departures from patterns to identify and manage risk that could impact an organization. Students will use probability as a tool for anticipating and forecasting data within business models to make decisions. Students will explore careers in the area of risk management and will learn to plan, monitor, and control day-to-day activities to enable continued functioning in finance. Students will analyze accounting systems to examine financial stability. Students will explain the role and impact of dividends in corporate finance. Students will access, process, maintain, evaluate, and disseminate, financial information to assist business decision-making.

**AP STATISTICS**

GRADE: 10-12 ☒ CREDIT: 1

TEDS: A3100200 KISD: 2403

RECOMMENDED PREREQUISITE:  
Algebra II and Geometry WEIGHTED: 10 pts.

This course prepares students for the College Board AP Statistics Exam for possible college credit (1 semester, non-Calculus based Statistics). AP Statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes:

Exploring Data: Describing patterns and departures from patterns, Sampling and Experimentation: Planning and conducting a study, Anticipating Patterns: Exploring random phenomena using probability and simulation, Statistical Inference: Estimating population parameters and testing hypotheses. **AP students prepare to take the Advanced Placement Exam in for possible college credit.**

## ***Multi-Disciplinary***

The Multidisciplinary endorsement can be earned by completing one of the following three options:

<b><i>Option 1:</i></b>	<p style="text-align: center;"><b>Complete four credits from each of the four foundation subject areas:</b></p> <p style="text-align: center;"> <b>English</b>  <b>Mathematics</b>  <b>Science</b>  <b>Social Studies</b> </p> <p style="text-align: center;">Must include English IV, and Physics and/or Chemistry</p>
<b><i>Option 2:</i></b>	<p style="text-align: center;"><b>Complete four advanced placement or dual credits from the following departments:</b></p> <p style="text-align: center;"> <b>English</b>  <b>Mathematics</b>  <b>Science</b>  <b>Social Studies</b>  <b>Languages other than English</b>  <b>Fine Arts</b> </p> <p style="text-align: center;">Must include English IV, and Physics and/or Chemistry</p>
<b><i>Option 3:</i></b>	<p style="text-align: center;">Complete four advanced courses (junior level or higher) from within one endorsement or among multiple endorsements.</p>
<i>Check the Course Guide for Prerequisites and Grade Level Requirements</i>	

## *Advancement Via Individual Determination (AVID)*

Course Name	Credits	Grade Levels	Required Prerequisites
<b>AVID I</b>	<b>1</b>	<b>9-12</b>	<b>Application process</b>
<b>AVID II</b>	<b>1</b>	<b>10-12</b>	<b>AVID I; Application process</b>
<b>AVID III</b>	<b>1</b>	<b>11-12</b>	<b>Previous enrollment in AVID elective class prior to grade 11 for at least one year</b>
<b>AVID IV</b>	<b>1</b>	<b>12</b>	<b>Previous enrollment in AVID elective class prior to grade 12 for at least one year</b>

### **AVID I - II**

GRADE: 9-12	CREDIT: 1
TEDS: N1290001 I	KISD: 5762
TEDS: N1290002 II	KISD: 5763
PREREQUISITE: Application process	

An elective course designed for students who are college bound. Students learn strategies to ensure success in rigorous college-preparatory course work. The AVID curriculum focuses on writing, inquiry, collaboration, organization and reading (WICOR) through both teacher-led and tutor-led activities. AVID students learn to work cooperatively as a support system for each other and gain confidence in their own abilities while learning to assist their peers. Time management techniques and personal organization and study skills are also developed.

### **AVID III**

GRADE: 11-12	CREDIT: 1
TEDS: N1290030	KISD: 5764
PREREQUISITE: Previous enrollment in AVID elective class prior to grade 11 for at least one year.	
CO-REQUISITE: Enrollment in at least one honor, Advanced Placement, or International Baccalaureate course or in a college-transferable course in both the 11 <sup>th</sup> and 12 <sup>th</sup> grade years.	

AVID elective courses at all grade levels are designed to prepare students for entrance into four-year colleges and universities. The courses emphasize rhetorical reading, analytical writing, collaborative discussion strategies, tutorial inquiry study groups, and preparation for college entrance and placement exams, college study skills and test taking strategies, note taking and research. AVID students, generally, come from groups underrepresented at our four-year colleges and universities. They are enrolled in a rigorous academic program while being given a support system in the AVID classes through tutorials, coaching in note taking, organization and study skills, analytical writing, collaborative work and college counseling.

### **AVID IV**

GRADE: 12	CREDIT: 1
TEDS: N1290033	KISD: 5766
PREREQUISITE: Previous enrollment in AVID elective class prior to grade 12 for at least one year.	
CO-REQUISITE: Enrollment in at least one honor, Advanced Placement, or International Baccalaureate course or in a college-transferable course in both the 11 <sup>th</sup> and 12 <sup>th</sup> grade years.	

AVID elective courses at all grade levels are designed to prepare students for entrance into four-year colleges and universities. The courses emphasize rhetorical reading, analytical writing, collaborative discussion strategies, tutorial inquiry study groups, and preparation for college entrance and placement exams, college study skills and test taking strategies, note taking and research. AVID students, generally, come from groups underrepresented at our four-year colleges and universities. They are enrolled in a rigorous academic program while being given a support system in the AVID classes through tutorials, coaching in note taking, organization and study skills, analytical writing, collaborative work and college counseling.

## *Career Preparation*

### **Virtual Career and Technology Courses**

<b>Course Name</b>	<b>KISD #</b>	<b>Credits</b>	<b>Grade Levels</b>	<b>Recommended Prerequisites</b>
Entrepreneurship	Z82503	1	9-12	None
Principles of Business, Marketing, and Finance	Z81400	1	9-11	None
Lifetime Nutrition and Wellness	Z82101	.5	9-12	None
Professional Communication	Z1465	.5	9-12	None

<b>Course Name</b>	<b>Credits</b>	<b>Grade Levels</b>	<b>Recommended Prerequisites</b>
<b>Career Preparation I and II</b>	<b>2</b>	<b>11-12</b>	<b>Teacher Approval and Completion of Application Process</b>

#### **CAREER PREPARATION I - II / EXTENDED CAREER PREPARATION**

This course is a work-based instructional arrangement, which develops essential knowledge and skills through classroom, technical knowledge and on the job internships in any approved career-tech specific training area. Internship placement must be teacher approved and fall within the guidelines and requirements in order for students to qualify for enrollment in this program.

GRADE: 11-12 CREDIT: 3

TEDS: 12701305 I KISD: 81003

TEDS: 12701405 II KISD: 81004

REQUIRED PREREQUISITE: Completion of participation packet and teacher approval

## *Miscellaneous Courses*

<b>Elective Courses</b>			
<b>Course Name</b>	<b>Credits</b>	<b>Grade Levels</b>	<b>Recommended Prerequisites</b>
<b>Academic Decathlon</b>	<b>1</b>	<b>9-12</b>	<b>Previous test results, prior achievement in high school and counselor recommendations, and personal interviews with course instructors</b>
<b>Health Education</b>	<b>.5</b>	<b>9-12</b>	<b>None</b>
<b>Political Science I</b>	<b>1</b>	<b>10-12</b>	<b>None</b>
<b>Organic Chemistry</b>	<b>1</b>	<b>11-12</b>	<b>AP Chemistry</b>
<b>Student Leadership I</b>	<b>1</b>	<b>9-12</b>	<b>Student must have been or plan to be in student council during the term and have teacher approval. Officers and committee chairpersons will be given first opportunity.</b>
<b>LOCAL Credits –</b>			
<b>These courses do not count towards graduation requirements or grade point average.</b>			
<b>PSAT/SAT Prep</b>	<b>0.5</b>	<b>10-12</b>	<b>None</b>
<b>Student Leadership II</b>	<b>1</b>	<b>10-12</b>	<b>Student must have been or plan to be in student council during the term and have teacher approval. Officers and committee chairpersons will be given first opportunity.</b>
<b>Office Procedures</b>	<b>0</b>	<b>12</b>	<b>Students receive a “P” or “F”</b>

## ACADEMIC DECATHLON I - IV

GRADE: 9-12	CREDIT: 1
TEDS: N1290309 I	KISD: 1180
TEDS: N1290313 II	KISD: 1181
TEDS: N1290317 III	KISD: 1189
TEDS: N1290318 IV	KISD: 1190
RECOMMENDED PREREQUISITE: Previous test results, prior achievement in high school, teacher and counselor recommendations, and personal interviews with course instructors	
WEIGHTED: 10 pts. For Levels III and IV	

Academic Decathlon provides an intensive, exciting, demanding, and rewarding educational experience, which culminates with competition in area, state and national competitions. Through discipline and determination, the students learn by a variety of methods. Study skills are perfected and maturity is enhanced. Higher level and critical thinking skills, creative and productive thinking, the use of different learning styles with instructional strategies varying from lecture to independent study, guided research to competitive game formats and independent and guided research are all used in the many aspects in preparation for the competition experienced through the Decathlon program. In researching and writing a speech, students will compose an original paper for oral delivery, which encompasses an evaluative and critical process. Additional time beyond regular school hours is often required.

## HEALTH EDUCATION

GRADE: 9-12	CREDIT: .5
TEDS: 03810100	KISD: 5001
RECOMMENDED PREREQUISITE: None	

Health Education enables each student to develop an understanding of the attitudes and habits that are conducive to healthful living. The Health Education class will help students develop skills that will make them health-literate adults. Students will use problem-solving, research, goal-setting, and communication skills to protect their health and that of the community. Students who successfully complete this course receive high school credit and the course is used in calculating students' high school GPA and class rank.

## ORGANIC CHEMISTRY

GRADE: 11-12	CREDIT: 1
TEDS: N1120027	KISD: 5725
RECOMMENDED PREREQUISITE AP Chemistry	
WEIGHTED: 10 pts.	

Organic chemistry is an introductory course. The student will learn the concepts and applications of organic chemistry and be introduced to organic compounds and their properties. Topics covered include aliphatic and aromatic compounds, alcohols, aldehydes, ketones, acids, ethers, amines, spectra, and stereochemistry. The laboratory experiments will familiarize the student with the important laboratory techniques. **This course is an Elective Credit and will not count as an Advanced Science Course. This course counts as a weighted credit.**

## POLITICAL SCIENCE I

GRADE: 10-12	CREDIT: 1
TEDS: 13018300	KISD: 81701
RECOMMENDED PREREQUISITE: Principles of Government, Public Administration	

This course focuses on planning and performing governmental functions at the local, state, and federal levels, including governance, national security, foreign service, planning, revenue and taxation, and regulations. It introduces students to political theory through the study of governments; public policies; and political processes, systems, and behavior.

## STUDENT LEADERSHIP I - II

GRADE: 9-12	CREDIT: 1
TEDS: N1290010 I	KISD: 1183
	KISD: 1184
TEDS: 85000300 II	(Local Credit)
RECOMMENDED PREREQUISITE: Student must have been or plan to be in student council during the term and obtain teacher approval. Officers and committee chairpersons will be given first opportunity.	

This course is designed for students to explore what it means to be a leader and guide efforts at exercising leadership skills. The course is project and activity based and includes the following topics: leadership skills, Parliamentary Procedure, group dynamics and team building, decision-making skills, personal and group motivation and goal setting, problem-solving techniques, communication skills, leadership roles, human relation skills and understanding the need for civic responsibility. A student contract outlining responsibilities and expectations will need to be signed by parent and student. A student will earn one state credit. If course is repeated, a local credit may be earned.

## PSAT / SAT PREP

	CREDIT: .5 (Local)
GRADE: 10-12	
TEDS: 85000001	KISD: 1191
RECOMMENDED PREREQUISITE: None	

The PSAT Prep Seminar is an intensive and demanding educational experience that focuses on preparing juniors to compete in the National Merit Scholarship Program. Students will be involved daily in the rigorous instructional strategies designed to improve both verbal and quantitative scores. Students work with materials used on previously administered PSAT and SAT tests as they become available, but are also held responsible for in depth study into all tested aspects of the program.

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OFFICE PROCEDURES	
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GRADE: 12

CREDIT 0

TEDS

KISD: 9803

REQUIRED PREREQUISITE: High School  
Specific

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The office procedures class is available to classified seniors on track to graduate. Qualified students will be placed in settings such as library, office, counseling, or teacher aide and will provide support. For this local course credit, students will receive a “P” or “F” and it will not be calculated into the grade point average.



## *Special Education Courses*

**Note: An Admission, Review and Dismissal (ARD) Committee determine Special education placement and individual course selections. Placement and course selections are reviewed, at a minimum, on an annual basis.**

**Special Education Course Offerings:** The following is a list of the courses taught by special education teachers. All students will have access to the general curriculum and to the Texas Essential Knowledge and Skills (TEKS). Curriculum may be accessed through modifications, accommodations, and/or Recommended Prerequisite skills dependent upon the individual needs of the student. All core subject special education courses are taken for credit.

<b>4 Year Plan: Resource, Stars, and Strides Programs</b>				
<b>Subject Area</b>	<b>Freshman</b>	<b>Sophomore</b>	<b>Junior</b>	<b>Senior</b>
<b>Modified English</b>	English I	English II	English III	English IV
<b>Modified Math</b>	Algebra I	Geometry	Math Models	Algebra II
<b>Modified Science</b>	IPC	Biology	Chemistry	Physics
<b>Modified Social Studies</b>	World Geography	World History	US History	Government/ Economics
<b>Fine Arts</b>	1 credit of Fine Arts			
<b>World Language</b>	2 credits of the same world language			
<b>21<sup>st</sup> Century Skills</b>	Professional Communications			
<b>Electives</b>	All modified students have access to all general education electives			
<b>Modified Electives— All modified electives are taught by special education teachers</b>	Career Preparation	Career Preparation I 2-3 Credits	Career Preparation II 2-3 Credits	
	Methodology For Academic and Personal Success— MAPS	MAPS I - 1 credit	MAPS II - 0 Credit	
	General Employability Skills	GES - 1 Credit		

### ENGLISH LANGUAGE ARTS

<b>E N G L I S H I M O D I F I E D</b>	
GRADE: 9	CREDIT: 1
TEDS: 03220100	KISD: M1003
PREREQUISITE: ARD Decision	

This course uses modified English I content to meet the individual learning requirements of students. The focus is on integrated language arts study in language/writing, literature/reading, speaking/listening, and view representing. Students will integrate correct language skills within the reading and writing processes; plan, draft, and complete written compositions from all writing forms on a regular basis; read and respond to multiple genres from world literature translated into English from various cultures; understand basic literary concepts. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

## ENGLISH II MODIFIED

GRADE: 10	CREDIT: 1
TEDS: 03220200	KISD: M1033
PREREQUISITE: ARD Decision	

This course uses modified English II content to meet the individual learning requirements of students. The focus is on integrated language arts study in language/writing, literature/reading, speaking/listening, and viewing/representing. Students increase and refine their communication skills; plan, draft, and complete written compositions with emphasis on persuasive forms; read extensively in multiple genres from world literature translated to English from various cultures. Students continue development of study skills, strategies, and the use of critical thinking skills. Some variation in course content/emphasis may occur on campus depending on the individual needs of the students.

## ENGLISH III MODIFIED

GRADE: 11	CREDIT: 1
TEDS: 03220300	KISD: M1063
PREREQUISITE: ARD Decision	

This course uses modified English III content to meet the individual learning requirements of students. The focus is on integrated language arts study in language/writing, literature/reading, speaking/listening, and viewing/representing. Students continue to increase and refine communication skills; plan, draft, and complete written compositions with emphasis on business forms on a regular basis. American literature and other world literature provide the source for critical thinking and literary essays. Students' present and critique oral communications and Graphic Design & Illustration products. Students continue development of study skills, strategies, and the use of critical thinking skills. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

## ENGLISH IV MODIFIED

GRADE: 12	CREDIT: 1
TEDS: 03220400	KISD: M1093/CT1063
PREREQUISITE: ARD Decision	

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skill for the grade level English I TEKS. The focus is on integrated language arts study in language/writing, literature/reading, speaking/listening, and viewing/representing. Students will integrate correct language skill within the reading and writing processes; plan, draft, and complete written compositions from all writing forms on a regular basis; read, and respond to multiple genres from world literature translated into English from various cultures; understand basic literary concepts. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

## MATHEMATICS

### ALGEBRA I MODIFIED

GRADE: 9	CREDIT: 1
TEDS: 03100500	KISD: M2003/CT2003
PREREQUISITE: ARD Decision	

Algebra 1 Modified is designed for students to learn the skills and application of Algebra 1 through modified and accommodated curriculum. Algebra 1 Modified students build on earlier math experiences, deepening their understanding of relations and functions and expanding their repertoire of familiar linear and quadratic functions, among others.

### GEOMETRY MODIFIED

GRADE: 10	CREDIT: 1
TEDS: 03100700	KISD: M2213/CT2213
PREREQUISITE: ARD Decision	

Geometry Modified is designed for students to learn the skills and application of geometry through modified and accommodated curriculum. Students develop the facility with a broad range of ways of representing geometric ideas that allow multiple approaches to geometric problems that connect geometric interpretations to other contexts.

### MATH MODELS MODIFIED

GRADE: 11	CREDIT: 1
TEDS: 03102400	KISD: M2123/CT2123
PREREQUISITE: ARD Decision	

Math Models with Applications Modified is designed for students to continue to build on the K-8 and Algebra 1 Modified foundations as they expand their understanding through other mathematical experiences. Through the use of modified and accommodated curriculum students use mathematical methods to model and solve real-life application problems involving money, date, chance, patterns, music, design, and science. Students use a variety of representations, tools, and technology to link modeling techniques and purely mathematical concepts and to solve applied problems.

### ALGEBRA II MODIFIED

GRADE: 12	CREDIT: 1
TEDS: 03100600	KISD: M2043/CT2043
PREREQUISITE: ARD Decision	

Algebra 2 Modified is designed for students to build on Algebra 1 Modified and Geometry Modified experiences, both deepening their understanding of relations and functions and expanding their repertoire of familiar functions. Through the use of modified and accommodated curriculum students will be provided insights into mathematical abstraction and structure through the content strands. Connection will be made between algebra and geometry and the tools of one will be used to help solve problems in the other.

## SOCIAL STUDIES

### WORLD GEOGRAPHY MODIFIED

GRADE: 9	CREDIT: 1
TEDS: 03320100	KISD: M4203/CT4203
PREREQUISITE: ARD Decision	

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level World Geography TEKS. This course involves study of the interaction of people and cultures with their physical environment in the world's major areas: attention to the locations of natural resources, geographic boundaries, landforms, economic development, language, patterns of settlement, and the interaction of cultures and nations within the context of global development. Activities use critical thinking skills and technology resources designed to assist students in recognizing how understanding events in World Geography will influence our country and our people. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

### WORLD HISTORY MODIFIED

GRADE: 10	CREDIT: 1
TEDS: 03340400	KISD: M4103/CT4103
PREREQUISITE: ARD Decision	

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level World History TEKS. The course focuses on historical development of human society from past to present times. Emphasis placed on major events, world leaders, economic and political institutions, technological innovations, and the philosophical and religious beliefs that have shaped the modern world. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

### U.S. HISTORY MODIFIED

GRADE: 11	CREDIT: 1
TEDS: 03340100	KISD: M4003/CT4003
PREREQUISITE: ARD Decision	

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level U.S. History TEKS. The course focuses on U.S. history from Reconstruction to the present. Students review and evaluate major themes and events in U.S. history, leaders, economic and political institutions, technological innovations, and the philosophies that affect the United States today. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

## GOVERNMENT / ECONOMICS MODIFIED

GRADE: 12	CREDIT: .5
TEDS: 03330100	GOVT KISD: 4301
TEDS: 03310300	ECO KISD: 4302
PREREQUISITE: ARD Decision	

Government and Economics modified/ co-teach courses will enable the student to define their rights, privileges and responsibilities within the school, community, and employment settings. Concepts include voting, laws, and consequences of unlawful behavior, honesty, integrity, community volunteerism, rules, and regulations. Students are instructed on how to be productive and safe in a variety of community situations including employment. Students will become familiar with the basic concepts of personal responsibility related to employability and being a productive, contributing member of a business, community and/or organization. History studies will provide a survey of the history and development of our world's area and cultures with emphasis on social, cultural, economic, and political developments of the United States of America.

## SCIENCE

### INTEGRATED PHYSICS AND CHEMISTRY MODIFIED

GRADE: 9-12	CREDIT: 1
TEDS: 03060201	KISD: M3003/CT3003
PREREQUISITE: ARD Decision	

This course meets the requirements of students by focusing on Recommended Prerequisite skills for the grade level of Integrated Physics and Chemistry (IPC) TEKS. In Integrated Physics and Chemistry, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry with the following topics: force, motion, energy, and matter.

### BIOLOGY MODIFIED

GRADE: 9-12	CREDIT: 1
TEDS: 03100200	KISD: M3103/CT3103
PREREQUISITE: ARD Decision	

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level Biology TEKS. The course may cover cell structure and function of systems in organisms, scientific, processes and basic concept of biochemistry, genetics, microbiology, taxonomy, botany, physiology, and zoology. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

### CHEMISTRY MODIFIED

GRADE: 9-12	CREDIT: 1
TEDS: 03040000	KISD: M3303/CT3303
PREREQUISITE: ARD Decision	

This course uses modified/ co-teach Chemistry content to meet the individual learning requirements of students. Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include characteristics of matter, use of the Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermochemistry, and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

## ELECTIVES

### CAREER PREPARATION I-II MODIFIED

GRADE: 11-12	CREDIT: 2-3
TEDS: 13025000	I KISD: M8028
TEDS: 13025010	II KISD: M8029
PREREQUISITE: ARD Decision	

This instructional arrangement/setting is for providing special education or related services to students who are placed on a job with direct involvement by special education personnel in the implementation of the student's Individual Education Plan (IEP). This instructional arrangement/setting shall be used only after the school district's career and technology classes have been considered and determined inappropriate for the student.

**Practicum Experience is actual work period scheduled within the school day.**

### METHODOLOGY FOR ACADEMIC AND PERSONAL SUCCESS (MAPS)

GRADE: 9-10	CREDIT: 1
TEDS: N1130021 I	KISD: M8301
TEDS LOCAL II	KISD: M8302
PREREQUISITE: ARD Decision	

The course focuses on the skills and strategies necessary for students to make a successful transition into high school and an academic career. Students will explore the options available in high school, higher education, and the professional world in order to establish both immediate and long-range personal goals. STUDENTS CAN ONLY OBTAIN 1 CREDIT FOR THIS COURSE. MAPS II IS FOR ZERO CREDIT.

### GENERAL EMPLOYABILITY SKILLS

GRADE: 11-12	CREDIT: 1
TEDS:	KISD: M8303
PREREQUISITE: ARD Decision	

This course provides students with knowledge of the prerequisite skills for general employment as well as the means of obtaining those skills. Employability skills include fundamentals of maintenance of personal appearance and grooming. The course also includes the knowledge, skills, and attitudes that allow employees to get along with their co-workers, make important work-related decisions, and become strong members of the work team. Discovering job possibilities that link skills, abilities, interests, values, needs, and work environment preferences is a part of the process of obtaining employability skills and abilities and is experiential learning that takes place over time. This course is designed to guide students in obtaining the knowledge and the needed employability skills that are transferable among a variety of jobs and careers and are considered essential in any employment situation. Students will learn and apply basic knowledge of what is expected in the workplace.

## 4 Year Plan: STACC, Life, and Medically Fragile Programs

Subject Area	Freshman	Sophomore	Junior	Senior
Alternate English	English I	English II	English III	English IV
Alternate Math	Algebra I	Geometry	Math Models	Algebra II
Alternate Science	IPC	Biology	Chemistry	Physics
Alternate Social Studies	World Geography	World History	US History	Government/ Economics
Fine Arts	1 credit of Fine Arts			
World Language	2 credits of the same world language or			
Alternate 21 <sup>st</sup> Century Skills	Professional Communications			
Electives	All alternate students have access to all general education electives			
Alternate Electives	Career Preparation modified is taught by a SPED teacher.	Career Preparation I	Career Preparation II	

### ENGLISH I ALTERNATE

GRADE: 9 CREDIT: 1

TEDS: 03220107 KISD: T1003

PREREQUISITE: ARD Decision

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level English I TEKS. The focus is on integrated language arts study in language/writing, literature/reading, speaking/listening, and viewing/representing. Students will integrate correct language skill within the reading and writing processes; plan, draft, and complete written compositions from all writing forms on a regular basis; read, and respond to multiple genres from world literature translated to English from various cultures; understand basic literary concepts. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

### ENGLISH II ALTERNATE

GRADE: 10 CREDIT: 1

TEDS: 03220207 KISD: T1033

PREREQUISITE: ARD Decision

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level English II TEKS. The focus is on integrated language arts study in language/writing, literature/reading, speaking/listening, and viewing/representing. Students increase and refine their communication skills; plan, draft, and complete written compositions with emphasis on persuasive forms; read extensively in multiple genres from world literature translated into English from various cultures. Students continue development of study skills, strategies, and the use of critical thinking skills. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

### ENGLISH III ALTERNATE

GRADE: 11 CREDIT: 1

TEDS: 03220307 KISD: T1063

PREREQUISITE: ARD Decision

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level English III TEKS. The focus is on integrated language arts study in language/writing, literature/reading, speaking/listening, and viewing/representing. Students continue to increase and refine communication skills; plan, draft, and complete written compositions with emphasis on business forms on a regular basis. American literature and other world literature provide the source for critical thinking and literary essays. Students' present and critique oral communications and Graphic Design & Illustration products. Students continue development of study skills, strategies, and the use of critical thinking skills. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

### ENGLISH IV ALTERNATE

GRADE: 12 CREDIT: 1

TEDS: 03220400 KISD: T1093

PREREQUISITE: ARD Decision

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level English IV TEKS. The focus is on integrated language arts study in language/writing, literature/reading, speaking/listening, and viewing/representing. Students continue to increase and refine communication skills; plan, draft, and complete written compositions with emphasis on business forms on a regular basis. American literature and other world literature provide the source for critical thinking and literary essays. Students continue development of study skills, strategies, and the use of critical thinking skills. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

### INDEPENDENT ENGLISH IV ALTERNATE

GRADE: 12 CREDIT: 1

TEDS: 03221800 KISD: T1133

PREREQUISITE: ARD Decision

Independent English IV Alternate will assist students in developing skills in the areas of expressive, receptive, written, and representations of language. Attention is given to the ability to communicate effectively within the range of student's abilities. Students will integrate language in order to understand oral, written, and/or symbolic communication. Oral and written language will be used to express ideas, demands and needs, and to make inquiries. Communication will be examined in regards to social appropriateness, environmental cues and, prompts understanding generalizations in real life context, the responsibilities of independent living and skills related

### PROFESSIONAL COMMUNICATIONS

GRADE: 9-12 CREDIT: .5

TEDS: 13009900 KISD: T1465

PREREQUISITE: ARD Decision

Understanding and developing skills in oral communication are fundamental to all other learning and to all levels of human interaction. Students must understand concepts and processes involved in sending and receiving oral messages, evaluating and using nonverbal communication and listening for a variety of purposes. In Applied Speech Communication, students develop communication skills in interpersonal group and public interaction to establish and maintain productive relationships and function effectively in social, academic, and citizenship roles.

### ALGEBRA I ALTERNATE

GRADE: 9 CREDIT: 1

TEDS: 03100507 KISD: T2003

PREREQUISITE: ARD Decision

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level Algebra 1 TEKS. Algebra 1 Alternate students build on earlier math experiences, deepening their understanding of relations and functions and expanding their repertoire of familiar linear and quadratic functions, among others. Students learn to combine functions, express functions in equivalent forms, compose functions and find inverses where possible. Algebra 1 Alternate will provide students with insights into mathematical abstraction and structure through the content strands Foundations for Functions, Linear Functions, and Quadratics and other Non-Linear Functions. It is extremely important for students to learn Algebra 1 standards in depth, as it is a foundation for other math courses.

### GEOMETRY ALTERNATE

GRADE: 10 CREDIT: 1

TEDS: 03100707 KISD: T2213

PREREQUISITE: ARD Decision

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level Geometry TEKS. High school students develop facility with a broad range of ways of representing geometric ideas, including coordinates, networks, transformations, that will allow multiple approaches to geometric problems and that connect geo-metric interpretations to other contexts. Students learn to recognize connections among different representations, thus enabling them to use these representations flexibly. Students will expand their understanding through other mathematical experiences through the Geometry content strands of Geometric Structure, Geometric Patterns, Dimensionality and the Geometry of Location, Congruence and the Geometry of Size, and Similarity and the Geometry of Shape.



### MATH MODELS WITH APPLICATIONS ALTERNATE

GRADE: 11 CREDIT: 1

TEDS: 03102400 KISD: T2123

PREREQUISITE: ARD Decision

Math Models with Applications Modified is designed for students to continue to build on the K-8 and Algebra I Alternate foundations as they expand their understanding through other mathematical experiences. Through the use of modified and accommodated curriculum students use mathematical methods to model and solve real-life application problems involving money, date, chance, patterns, music, design, and science. Students use a variety of representations, tools, and technology to link modeling techniques and purely mathematical concepts and to solve applied problems.

### ALGEBRA II ALTERNATE

GRADE: 12 CREDIT: 1

TEDS: 03100607 KISD: T2043

PREREQUISITE: ARD Decision

Algebra II Alternate is designed for students to build on Algebra I Alternate and Geometry Alternate experiences, both deepening their understanding of relations and functions and expanding their repertoire of familiar functions. Through the use of modified and accommodated curriculum students will be provided insights into mathematical abstraction and structure through the content strands. Connection will be made between algebra and geometry and the tools of one will be used to help solve problems in the other.

### INDEPENDENT STUDY IN MATHEMATICS ALTERNATE

GRADE: 12 CREDIT: 1

TEDS: 03102500 KISD: T2501

PREREQUISITE: ARD Decision

These courses are designed to reinforce math operations using a variety of practical, real life situations that facilitate the understanding of using mathematics in daily living exercises. Emphasis is on applying mathematics in the use of money, personal financial situations and solving home and work problems by using the concepts of fundamental mathematics. Students practice these strategies within the context of simulation designed to reinforce the understanding of basic operations, as well as the application of these operations within technological tools that enhance understanding and accuracy.

## SOCIAL STUDIES

### WORLD GEOGRAPHY ALTERNATE

GRADE: 9 CREDIT: 1

TEDS: 03320107 KISD: T4203

PREREQUISITE: ARD Decision

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level World Geography TEKS. This course involves study of the interaction of people and cultures with their physical environment in the world's major areas: attention to the locations of natural resources, geographic boundaries, landforms, economic development, language, patterns of settlement, and the interaction of cultures and nations within the context of global development. Activities use critical thinking skills and technology resources designed to assist students in recognizing how understanding events in World Geography will influence our country and our people. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

### WORLD HISTORY ALTERNATE

GRADE: 10 CREDIT: 1

TEDS: 03340407 KISD: T4103

PREREQUISITE: ARD Decision

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level World History TEKS. The course focuses on historical development of human society from past to present times. Emphasis placed on major events, world leaders, economic and political institutions, technological innovations, and the philosophical and religious beliefs that have shaped the modern world. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

### U . S . HISTORY ALTERNATE

GRADE: 11 CREDIT: 1

TEDS: 03340107 KISD: T4003

PREREQUISITE: ARD Decision

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level U.S. History TEKS. The course focuses on U.S. history from Reconstruction to the present. Students review and evaluate major themes and events in U.S. history, leaders, economic and political institutions, technological innovations, and the philosophies that affect the United States today. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

### GOVERNMENT / ECONOMICS ALTERNATE

GRADE: 12 CREDIT: .5

TEDS: 03330100 GOVT KISD: T4301

TEDS: 03310300 ECO KISD: T4302

PREREQUISITE: ARD Decision

Government and Economics Alternate courses will enable the student to define their rights, privileges and responsibilities within the school, community, and employment settings. Concepts include voting, laws, and consequences of unlawful behavior, honesty, integrity, community volunteerism, rules, and regulations. Students are instructed on how to be productive and safe in a variety of community situations including employment. Students will become familiar with the basic concepts of personal responsibility related to employability and being a productive, contributing member of a business, community and/or organization. History studies will provide a survey of the history and development of our world's area and cultures with emphasis on social, cultural, economic, and political developments of the United States of America.

## SCIENCE

### INTEGRATED PHYSICS AND CHEMISTRY ALTERNATE

GRADE: 9-12 CREDIT: 1

TEDS: 03060201 KISD: T3003

PREREQUISITE: ARD Decision

This course meets the requirements of students by focusing on Recommended Prerequisite skills for the grade level of Integrated Physics and Chemistry (IPC) TEKS. In Integrated Physics and Chemistry, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry with the following topics: force, motion, energy, and matter.

### BIOLOGY ALTERNATE

GRADE: 9-12 CREDIT: 1

TEDS: 03010207 KISD: T3103

PREREQUISITE: ARD Decision

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level Biology TEKS. The course may cover cell structure and function of systems in organisms, scientific, processes and basic concept of biochemistry, genetics, microbiology, taxonomy, botany, physiology, and zoology. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

### CHEMISTRY ALTERNATE

GRADE: 9-12 CREDIT: 1

TEDS: 03040007 KISD: T3303

PREREQUISITE: ARD Decision

This course uses alternate Chemistry content to meet the individual learning requirements of students. Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include characteristics of matter, use of the Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermochemistry, and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

PHYSICS ALTERNATE	
GRADE: 9-12	CREDIT: 1
TEDS: 03050007	KISD: T3403
PREREQUISITE: ARD Decision	

This course uses alternate Physics content to meet the individual learning requirements of students. Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion; changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior waves; and atomic, nuclear, and quantum physics. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

## ALTERNATE ELECTIVES

ACTIVITIES FOR DAILY LIVING (ADL) I-IV	
GRADE: 9-12	CREDIT: 0
TEDS: 95000003	I KISD: 900
TEDS: 95000004	II KISD: 901
TEDS: 95000005	III KISD: 902
TEDS: 95000006	IV KISD: 903
PREREQUISITE: ARD Decision	

This course is developed to integrate the domestic, recreation, leisure, school, and community domains. Students investigate through activity-based sessions, a variety of activities associated with the daily living experience. Organizing a daily routine and schedule will serve the students in their process of taking charge of independent living. Students will study areas of cooking, safety, leisure, chores, duties, responsibilities, budget, time management, first-aid, and communication. Personal safety and responsibility will be examined in response for taking care of one's self, others, and/or pets. Health care, transportation, telephone skills, and appropriate recreation activities are addressed in the context of developing a full capacity living experience. Students will develop strategies to respond to potential emergencies that may appear in the process of daily living.

**Activities for Daily Living I:** Focus will be on the study of daily living experiences with emphasis on daily routines and schedules.

**Activities for Daily Living II:** Focus will be on the study of daily living experiences with emphasis on personal safety and responsibility.

**Activities for Daily Living III:** Focus will be on the study of daily living experiences with emphasis on independent living skills.

**Activities for Daily Living IV:** Focus will be on the study of daily living experiences with emphasis on life choices, needs, and employment issues.

ADVANCED HEALTH EDUCATION ALTERNATE	
GRADE: 9-12	CREDIT: .5
TEDS: 03810200	KISD: T5003
PREREQUISITE: ARD Decision	

This course continues to expand upon health awareness. Applications related to current events, access to health and social services within the community, wellness strategies, mental health awareness, and substance abuse would be identified and examined. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

APPLIED MUSIC I-II ALTERNATE	
GRADE: 9-12	CREDIT: 1
TEDS: 03152500	I KISD: T2750
TEDS: 03152600	II KISD: T2751
PREREQUISITE: ARD Decision	

The Applied Music course will introduce to the student the basic skills and concepts which will enable the student to explore life around them in new ways. Through the applied arts, the students will increase their problem-solving skills, sharpen their communication skills and participate in cooperative learning activities.

ART ALTERNATE	
GRADE: 9-12	CREDIT: .5
TEDS: 03500100	KISD: T7403
PREREQUISITE: ARD Decision	

This alternate comprehensive study stresses the elements and principles of art and their uses in two and three-dimensional art. Various media and art forms are used to gain understanding of the basics. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

### COMMUNITY BASED VOCATIONAL INSTRUCTION (CBVI) I-III

GRADE: 10-12	CREDIT: 0
TEDS: 95000007	I KISD: 936
TEDS: 95000008	II KISD: 937
TEDS: 95000009	III KISD: 938
PREREQUISITE: ARD Decision	

In this instructional arrangement/setting students will practice employability skills at actual job sites in the local community. A wide range of sites will be used including, but not limited to: retail, service, volunteer, health related and clerical so as to provide the student with numerous opportunities to explore a variety of employment options. Students will be supervised directly by special education personnel without remuneration.

**Community Based Vocational Instruction (CBVI) I:** Focus of instruction will be on individual responsibility on the job sites in the community with direct supervision by a certified teacher.

**Community Based Vocational Instruction (CBVI) II:** Continued focus of instruction will be on individual responsibility on the job sites in the community with direct supervision by a certified teacher.

### HEALTH EDUCATION ALTERNATE

GRADE: 9-12	CREDIT: .5
TEDS: 03810100	KISD: T5001
PREREQUISITE: ARD Decision	

This course is a study in health awareness. Particular attention is given to growth, reproduction and development, exercise, diet and nutrition, leisure activities, personal development, and strategies to use in addressing personal health and hygiene issues and social skill development. The study of disease and life choices related in prevention of disease will be addressed within the course. Emphasis will be on making healthy lifestyle decisions. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students.

### INDEPENDENT STUDY IN TECHNOLOGY ALTERNATE

GRADE: 9-12	CREDIT: 1
TEDS: 03580900	KISD: T8603
PREREQUISITE: ARD Decision	

This course is an introduction to the computer and its uses. The student will develop skills through a continuous program of selective practice based on individual needs.

The PAES (Practical Assessment Exploration System) Lab provides a comprehensive assessment to determine interests, aptitudes, learning styles, and possible work behavior barriers. This course is a comprehensive, hands-on curriculum that provides training in basic vocational skills and appropriate work behaviors. PAES operates in a simulated work environment in an on-campus lab setting where strict work procedures are followed. Students learn and explore career and vocational pathways in the following areas: Business/Marketing, Computer/Technology, Construction/Industrial, Processing/Production, and Consumer Service.

### INDIVIDUAL AND TEAM SPORTS ALTERNATE

GRADE: 9-12	CREDIT: .5
TEDS: PES00055	KISD: T50304
PREREQUISITE: ARD Decision	

Students in Individual Sports are expected to participate in a wide range of individual sports that can be pursued for a lifetime. The continued development of health-related fitness and the selection of individual sport activities that are enjoyable is a major objective of this course.

### OCCUPATIONAL PREPARATION I-II

GRADE: 9-12	CREDIT: 0	
TEDS: 95000001	I	KISD: 964
TEDS: 95000002	II	KISD: 965
PREREQUISITE: ARD Decision		

This course prepares students to enter the job market through a study of employment issues including recognizing what skill define particular jobs, the application and interview processes, identifying barriers to employment, individual attributes that enhance employability, ways to locate jobs, using community services/resources to aid employment and maintaining a successful job experience. Issues to be presented are: safety, understanding job responsibilities, time requirements and management, relationships, task commitment, accepting feedback from authority figures, leaving a job appropriately, organizational skills, performance and evaluation, conduct, working with customers, and acceptance of job requirements. Job specific skills are presented in the areas of newspaper skills, telephone, placement assistance, multiple tasks and priority task awareness. Students will explore a variety of jobs and activities related to the job.

**Occupational Preparation I:** Focus of instruction will be on employability skills and job search.

**Occupational Preparation II:** Focus of instruction will be on aptitude, interests, and skills related to job search.

### CAREER PREPARATION I-II ALTERNATE

GRADE: 11-12	CREDIT: 3	
TEDS: 13025000	I	KISD: T8028
TEDS: 13025010	II	KISD: T8029
PREREQUISITE: ARD Decision		

This instructional arrangement/setting is for providing special education or related services to students who are placed on a job with direct involvement by special education personnel in the implementation of the student's Individual Education Plan (IEP). This instructional arrangement/setting shall be used only after the school district's career and technology classes have been considered and determined inappropriate for the student.

**Practicum Experience is actual work period scheduled within the school day.**

### TOUCH SYSTEM DATA ENTRY ALTERNATE

GRADE: 9-12	CREDIT: 1
TEDS: 13011300	KISD: T8301
PREREQUISITE: ARD Decision	

This course is an introduction to the computer and its uses. In this course, students will develop psychomotor skills in operating the keyboard as well as achieving acceptable speed and accuracy levels. This course will provide opportunities for students to apply keyboarding skills in real-life situations. The student will develop skills through a continuous program of selective practice based on individual needs.

## ADULT TRANSITION

ADULT TRANSITION LAB (ADL) I - II		
GRADE: 12+	CREDIT: 0	
TEDS: 95000028	I	KISD: 990
TEDS: 95000029	II	KISD: 991
PREREQUISITE: ARD Decision; Age of 18-21		

Completed requirements under minimum graduation plan; documented educational need in the form of an Individualized Education Program (IEP) in the area of postsecondary goals and/or functional based goals as documented in their individual transition plan.

The goal of the Keller ISD Secondary Transition Services program is to provide a seamless transition to life after high school by offering multiple opportunities to learn and use the skills necessary to function as independently as possible. Based on individual interests, strengths, and choices, each student will participate in community, recreational, employment, and independent living activities. These activities will continue into their adult life independent of educational services. Individualized supports for a successful transition to adult life are provided in the area of employment, recreation/activities, and independent living. Each young adult's daily schedule is based upon their postsecondary goals and corresponding performance expectations, and Individualized Education Program goals and objectives developed with collaboration of the student, his/her parents, teachers, and identified adult agencies.

In addition to completing the minimum credit requirements, the student will graduate and be awarded a regular high school diploma when they have successfully completed their IEP consistent with one of the following conditions:

- The student has maintained full time employment based on the student's abilities and local employment opportunities, in addition to sufficient self-help skills to enable the student to maintain the employment without direct and ongoing educational support of the local school district.
- The student has demonstrated mastery of specific employability skills and self-help skills, which do not require direct ongoing educational support of the local school district.
- The student has gained access to services, which are not within the legal responsibility of public education, or employment or educational options for which the student has been prepared by the academic program.

## Appendix A – Students who entered 9<sup>th</sup> Grade in 2014-2015 and beyond

This appendix defines courses that may be taken as advanced courses in the Endorsement Graduation Plan for students entering high school in 2014-2015.

(1) English language arts--four credits. Two of the credits must consist of English I and II. (Students with limited English proficiency who are at the beginning or intermediate level of English language proficiency, as defined by §74.4(d) of this title (relating to English Language Proficiency Standards), may satisfy the English I and English II graduation requirements by successfully completing English I for Speakers of Other Languages and English II for Speakers of Other Languages.) A third credit must consist of English III or a comparable Advanced Placement (AP) or International Baccalaureate (IB) English language arts course that does not count toward another credit required for graduation. A fourth credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:

- (A) English IV;
- (B) Independent Study in English;
- (C) Literary Genres;
- (D) Creative Writing;
- (E) Research and Technical Writing;
- (F) Humanities;
- (G) Public Speaking III;
- (H) Communication Applications, which must be combined with another half credit from the other courses listed in subparagraphs (A)-(G) and (I)-(S) of this paragraph;
- (I) Oral Interpretation III;
- (J) Debate III;
- (K) Independent Study in Speech;
- (L) Independent Study in Journalism;
- (M) Advanced Broadcast Journalism III;
- (N) Advanced Journalism: Newspaper III;
- (O) Advanced Journalism: Yearbook III;
- (P) a comparable Advanced Placement (AP) or International Baccalaureate (IB) English language arts course that does not count toward another credit required for graduation;
- (Q) after the successful completion of English I, II, and III, a locally developed English language arts course or other activity, including an apprenticeship or training hours needed to obtain an industry-recognized credential or certificate that is developed pursuant to the Texas Education Code (TEC), §28.002(g-1);
- (R) Business English; and
- (S) a college preparatory English language arts course that is developed pursuant to the TEC, §28.014.

(2) Mathematics--three credits. Two of the credits must consist of Algebra I and Geometry.

(A) The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses or a credit selected from the courses listed in subparagraph (B) of this paragraph:

- (i) Mathematical Models with Applications;
- (ii) Mathematical Applications in Agriculture, Food, and Natural Resources;
- (iii) Digital Electronics;
- (iv) Robotics Programming and Design;
- (v) Financial Mathematics;
- (vi) Applied Mathematics for Technical Professionals;
- (vii) Accounting II;
- (viii) Manufacturing Engineering Technology II; and
- (ix) Robotics II.

(B) The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following courses:

- (i) Algebra II;
- (ii) Precalculus;
- (iii) Advanced Quantitative Reasoning;

- (iv) Independent Study in Mathematics;
  - (v) Discrete Mathematics for Problem Solving;
  - (vi) Algebraic Reasoning;
  - (vii) Statistics;
  - (viii) a comparable AP or IB mathematics course that does not count toward another credit required for graduation;
  - (ix) AP Computer Science A;
  - (x) IB Computer Science Higher Level;
  - (xi) Engineering Mathematics;
  - (xii) Statistics and Business Decision Making;
  - (xiii) Mathematics for Medical Professionals;
  - (xiv) Discrete Mathematics for Computer Science;
  - (xv) pursuant to the TEC, §28.025(b-5), after the successful completion of Algebra II, a mathematics course endorsed by an institution of higher education as a course for which the institution would award course credit or as a prerequisite for a course for which the institution would award course credit. The Texas Education Agency (TEA) shall maintain a current list of courses offered under this subparagraph; and
  - (xvi) after the successful completion of Algebra I and Geometry, a locally developed mathematics course or other activity, including an apprenticeship or training hours needed to obtain an industry-recognized credential or certificate that is developed pursuant to the TEC, §28.002(g-1).
- (C) A single two-credit IB mathematics course may only satisfy one mathematics requirement.
- (3) Science--three credits. One credit must consist of Biology or a comparable AP or IB biology course.
- (A) One credit must be selected from the following laboratory-based courses:
- (i) Integrated Physics and Chemistry;
  - (ii) Chemistry;
  - (iii) Physics;
  - (iv) Principles of Technology; and
  - (v) a comparable AP or IB chemistry or physics course that does not count toward another credit required for graduation.
- (B) The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following laboratory-based courses:
- (i) Chemistry;
  - (ii) Physics;
  - (iii) Aquatic Science;
  - (iv) Astronomy;
  - (v) Earth and Space Science;
  - (vi) Environmental Systems;
  - (vii) a comparable AP or IB science course that does not count toward another credit required for graduation;
  - (viii) Advanced Animal Science;
  - (ix) Advanced Plant and Soil Science;
  - (x) Anatomy and Physiology;
  - (xi) Medical Microbiology;
  - (xii) Pathophysiology;
  - (xiii) Food Science;
  - (xiv) Forensic Science;
  - (xv) Biotechnology I;
  - (xvi) Biotechnology II;
  - (xvii) Principles of Technology;
  - (xviii) Scientific Research and Design;
  - (xix) Engineering Design and Problem Solving;
  - (xx) Engineering Science;
  - (xxi) pursuant to the TEC, §28.025(b-5), after the successful completion of physics, a science course endorsed by an institution of higher education as a course for which the institution would award course credit or as a prerequisite for a course for which the institution would award course credit. The TEA shall maintain a current list of courses offered under this clause; and



(xxii) a locally developed science course or other activity, including an apprenticeship or training hours needed to obtain an industry-recognized credential or certificate that is developed pursuant to the TEC, §28.002(g-1).

(C) Credit may not be earned for both physics and Principles of Technology to satisfy science credit requirements.

(5) Languages other than English (LOTE)--two credits.

(A) The credits may be selected from the following:

- (i) any two levels in the same language, including comparable AP or IB language courses that do not count toward another credit required for graduation; or
- (ii) two credits in computer programming languages, including computer coding, to be selected from Computer Science I, II, and III, AP Computer Science Principles, AP Computer Science A, IB Computer Science Standard Level, and IB Computer Science Higher Level.

(B) A single two-credit IB LOTE course may only satisfy one LOTE requirement.

(C) If a student, in completing the first credit of LOTE, demonstrates that the student is unlikely to be able to complete the second credit, the student may substitute another appropriate course as follows:

- (i) Special Topics in Language and Culture;
- (ii) World History Studies or World Geography Studies for a student who is not required to complete both by the local district;
- (iii) another credit selected from Chapter 114 of this title (relating to Texas Essential Knowledge and Skills for Languages Other Than English); or
- (iv) computer programming languages, including computer coding.

(D) The determination regarding a student's ability to complete the second credit of LOTE must be agreed to by:

- (i) the teacher of the first LOTE credit course or another LOTE teacher designated by the school district, the principal or designee, and the student's parent or person standing in parental relation;
- (ii) the student's admission, review, and dismissal (ARD) committee if the student receives special education services under the TEC, Chapter 29, Subchapter A; or
- (iii) the committee established for the student under Section 504, Rehabilitation Act of 1973 (29 United States Code, Section 794) if the student does not receive special education services under the TEC, Chapter 29, Subchapter A, but is covered by the Rehabilitation Act of 1973.

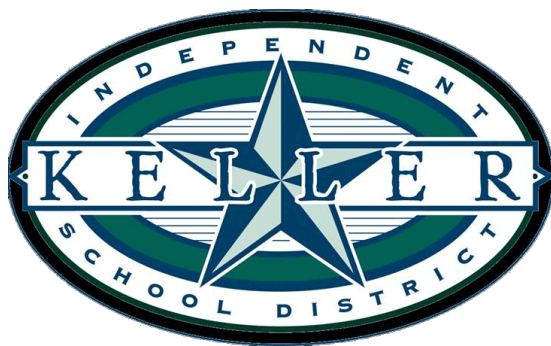
(E) A student, who due to a disability, is unable to complete two credits in the same language in a language other than English, may substitute a combination of two credits that are not being used to satisfy another specific graduation requirement selected from English language arts, mathematics, science, or social studies or two credits in career and technical education or technology applications for the LOTE credit requirements. The determination regarding a student's ability to complete the LOTE credit requirements will be made by:

- (i) the student's ARD committee if the student receives special education services under the TEC, Chapter 29, Subchapter A; or
- (ii) the committee established for the student under Section 504, Rehabilitation Act of 1973 (29 United States Code, Section 794) if the student does not receive special education services under the TEC, Chapter 29, Subchapter A, but is covered by the Rehabilitation Act of 1973.

(F) A student who successfully completes a dual language immersion/two-way or dual language immersion/one-way program in accordance with §89.1210(d)(3) and (4) of this title (relating to Program Content and Design), §89.1227 of this title (relating to Minimum Requirements for Dual Language Immersion Program Model), and §89.1228 of this title (relating to Dual Language Immersion Program Model Implementation) at an elementary school may satisfy one credit of the two credits required in a language other than English.

(i) To successfully complete a dual language immersion program, a student must:

- (I) have participated in a dual language immersion program for at least five consecutive school years;
  - (II) achieve high levels of academic competence as demonstrated by performance of meets or masters grade level on the State of Texas Assessments of Academic Readiness (STAAR®) in English or Spanish, as applicable; and
  - (III) achieve proficiency in both English and a language other than English as demonstrated by scores of proficient or higher in the reading and speaking domains on language proficiency or achievement tests in both languages.
- (ii) The second credit of a language other than English must be in the same language as the successfully completed dual language immersion program.



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