

# **C. E. King High School**

## **Course Handbook**

### **2023-24**



## Letter from the Principal

Dear Students and Parents:

C. E. King High School is a class 6A high school serving approximately 3,000 students. We offer the standard high school program which is required by the state of Texas and much more. Our students have choices in areas ranging from fine arts to automotive. We offer many activities, clubs, and sports which provide our students the opportunities to find what interests them and have a place to belong.

Our purpose statement at King High School is “Educating Today for a Better Tomorrow”. The courses we offer, the activities we provide, the special programs we make available, all work to that end, creating well rounded graduates prepared for the global society.

We will guide and support your child as they plan their high school years and beyond. We also want to include you, the parent, in this process as well. This handbook will provide you and your child with a great deal of information relating to courses offered, graduation plans, campus procedures and state mandates. Please take the time to read through this resource. We invite you to contact us if you have questions. Your student’s high school years are extremely important. It is our plan to work with you and your student to ensure they meet their goals and are prepared for their post-secondary years, whether it is a career right out of high school or continuing their education through technical school, community college or university.



We are here to serve our students and parents. The staff at C.E. King High School and throughout Sheldon I.S.D is committed to providing the best education possible for our community. The Sheldon ISD Board of Trustees has provided the vision and has committed the resources needed for students to be successful. We look forward to working with each of you.

Sincerely,

A handwritten signature in black ink, which appears to read "Jillian Howard". The signature is fluid and cursive.

Dr. Jillian Howard

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## Course Handbook Overview

This Sheldon ISD handbook is designed to provide curriculum information for the 2023-2024 school year. It is the responsibility of students and parents to ensure that all graduation requirements are met. This handbook will assist in course selections that will meet goals for the future as well as satisfy graduation requirements. This handbook reflects a curriculum that is designed to provide students with the skills and knowledge needed to meet the challenges and increasing demands of the work force and of colleges and universities.

According to the State of Texas, students are required to have twenty-six (26) credits to meet graduation requirements. Please see pages 5-12 for an explanation of the types of graduation programs that are required by the Texas Education Agency (TEA). The student must also pass all parts of the testing required of his/her graduation plan to receive a diploma. The student's transcript is the official record of all grades earned and all credits awarded. For the most current version of this handbook, visit the following website: [www.khs.sheldonisd.com](http://www.khs.sheldonisd.com).

It is the policy of the Sheldon Independent School District not to discriminate on the basis of race, color, national origin, sex, or handicap in any of its programs, services, or activities as required by Title VI of the Civil Rights Act of 1964, as amended; by, Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.

# Planning For Your Educational Future

Students should begin early by developing a course of study to ensure successful post-secondary pursuits of his or her choice. Entrance requirements and information for prospective students can be found with each KHS counselor or through electronic means from any college/university website. It is recommended that students and parents think in terms of a six-year plan that carries students through their first two years beyond high school.

- Take the Preliminary Scholastic Aptitude Test (PSAT) is during sophomore and junior years. Taking the PSAT the sophomore year exposes students to the format used on the SAT and allows the school and parents to identify areas of strength and weakness. National Merit Scholarship recipients are taken from PSAT candidates that take the test during their junior year only.
- Take the SAT/ACT examinations multiple times. Students' skills are varied and some perform better on the ACT than the SAT. It is recommended that students take both tests at least once. A sample schedule might include: PSAT—sophomore and junior fall semesters.
- SAT—January to March of junior year; ACT—spring to summer junior year; and SAT again fall of senior year. Most colleges accept applications in the fall of a student's senior year; therefore, it is important to have multiple results documented before the end of a senior's fall semester.
- Plan on a senior year filled with rigorous coursework and activities. A student's senior year should propel the student smoothly toward the next challenge. "Senior-itis" alludes to the "need" to relax and enjoy oneself prior to leaving high school. This mind set and culture greatly impairs a student's ability to succeed in an ever-changing, competitive society. A student's senior year should be focused on future academic pursuits.
- Participate in school-related activities and community service. Being involved in school programs and community service contributes to developing a well-rounded, sensitive, compassionate citizen. Institutes of higher learning are hypersensitive to a student's involvement in activities other than academics.
- Enroll in KHS courses that earn college credit while still a student in high school: Dual Credit courses, and/or AP courses. Students must remember that these are college level courses taught with rigor, high expectations and extra time outside of each class is expected.



## Naviance Family Connection

Naviance Family Connection is a web-based service designed especially for students and parents. Naviance Family Connection is a comprehensive website that you can use to help in making decisions about colleges, scholarships and careers. Naviance Family Connection is linked with counselor's office, a service that is used to track and analyze data about college and career plans. It provides up-to-date information that is specific to your school.

Naviance Family Connection will allow students and parents to:

<b>Get involved in the planning and advising process</b>	Order transcripts, build a résumé, complete online surveys, and manage timelines and deadlines for making decisions about colleges and careers.
<b>Take a Learning Style Inventory</b>	The innovative Learning Style Inventory gives important insights about how students learn in order to help each student achieve maximum potential. The tool assesses the following dimensions that affect a student's learning: Immediate environment; Emotionality; Sociological needs; and Physical needs.
<b>Research Careers</b>	Naviance Family Connection offers the "Career Interest Profiler" as an online career interest assessment for students based on Holland's interest codes. The "Do What You Are" feature begins with a personality inventory and concludes with a report describing the student's personality type, potential careers, and related majors. The results link students directly to detailed career profiles, which include educational requirements, salary data, and in some cases even multimedia presentations. Students may also link directly to the college database to find colleges that offer an educational path to each career. The "Career Cluster Finder" will help students learn what career clusters may be a good match for you based on activities that interest them, personal qualities that they have and subjects that they enjoy studying in school. Students may watch and discover over 3,500 video archives through "Road Trip Nation" of various leaders across the country who have built their lives around their interests.
<b>Strengths Explorer</b>	Powered by Gallup, will help uncover student's talents and reveal potential strengths.
<b>Multiple Intelligence Advantage</b>	The MI Advantage assessment uses Multiple Intelligences theory to reveal students' intelligence strengths and challenges, and then provides suggestions on way to develop all their intelligences.
<b>Apply for Scholarships</b>	Check the most up-to-date list of scholarships that are on the local, state and national level.
<b>Research Colleges</b>	Compare GPA, standardized test scores, and other statistics to actual historical data from the school for students who have applied and been admitted in the past.
<b>Sign up for College Visits</b>	Find out which colleges are visiting the school and sign up to attend those sessions.

Naviance Family Connection also allows information to be shared with you about meetings and events, local scholarship opportunities, and other college and career web resources. This site can be also be used to send counselors e-mail messages. To logon students must go through their campus home page:

**C. E. King Middle School** – <https://student.naviance.com/cekingmiddle>

**Null Middle School** - <https://student.naviance.com/michaelnull>

**C. E. King High School** - <https://student.naviance.com/ceking>

## Website Resources

Check out these websites...

### **Test Registration and Information**

[satsuite.collegeboard.org/sat-act.org](https://satsuite.collegeboard.org/sat-act.org)

Register for the SAT I and SAT II. And conduct college and financial aid searches.  
Online registration for ACT

### **Interest Inventories and Career Information**

[careerkey.org](https://careerkey.org)

Click on "Career Tests" in the left column; and then click "Take the Career Key" to help select a potential career interest. There is a fee of about \$8.

[bls.gov/oco](https://bls.gov/oco)

Nationally recognized resource offers information on job responsibilities, earnings, and job prospects.

[bls.gov/ooh/](https://bls.gov/ooh/)

The Occupational Outlook Handbook (OOH) is a career resource offering information on the hundreds of occupations that provide most of jobs in the United States. Each occupational profile describes the typical duties performed by the occupation, the work environment of that occupation, the typical education and training needed to enter the occupation, the median pay for workers in the occupation, and the job outlook over the coming decade for that occupation.

### **College Searches and Applications**

[commonapp.org](https://commonapp.org)

Common application for over 200 private colleges and universities with complete instructions for applying online.

[applytexas.org](https://applytexas.org)

The Common Application for Freshman Admission to Texas Public Colleges - Most colleges prefer this application and for it to be completed and submitted on-line.

[bigfuture.collegeboard.org](https://bigfuture.collegeboard.org)

Allows you to create a list of schools that meet your preferences for size, geography, areas of study, and student body. Link to the home pages of many universities and email the colleges' admissions offices for more information.

[collegenet.com](https://collegenet.com)

Search for colleges using your defined criteria.

[nces.ed.gov/collegenavigator/](https://nces.ed.gov/collegenavigator/)

Search for a school by name, location, program, degree offerings, or a combination of criteria.

[collegeforalltexans.com](https://collegeforalltexans.com)

Here is everything a Texan needs to know about preparing for, applying for, and paying for college or technical school.

### **Financial Aid**

[fastweb.com](https://fastweb.com)

Fastweb is a free scholarship search platform that connects students to college scholarships, trade school scholarships, and financial aid tools. Our goal is to help you find scholarships to make college or vocational school more affordable.

[studentaid.gov](https://studentaid.gov)

Federal student financial aid information from the U.S. Department of Education. The Free Application for Federal Student Aid, Title IV codes - This is the one application for need-based aid, such as grants and loans. Do not submit this application until your senior year!

[collegeforalltexans.com](https://collegeforalltexans.com)

The Texas Application for State Financial Aid -- allows Texas residents to qualify for state aid. If you qualify for FAFSA you do not need to file this application.

[chegg.com](https://chegg.com)

Get step-by-step Textbook Solutions or ask homework questions to get expert answers, plus textbook rentals, writing and citation help, exam prep and more.

### **Selective Service**

[www.sss.gov](https://www.sss.gov)

All males 18-25 must register for the selective service. Register online at this site.

# Graduation Requirements

## For students entering 9<sup>th</sup> grade in 2014-2015 and beyond

House Bill 5 (HB 5), passed by the 83<sup>rd</sup> Texas Legislature and signed by the governor, provides for a new set of graduation plans for Texas students. These graduation plans consist of a foundation plan for every student and five endorsements from which students may choose, depending on their interests. When selected, students will complete each of these endorsements with four Mathematics, four Science, four English Language Arts, and three Social Studies credits. Students are also required to complete two foreign language credits, one physical education credit, and one fine arts credit. Students entering 9<sup>th</sup> Grade must choose from one of the following endorsements:

- Arts and Humanities
- Business and Industry
- Public Services
- Science, Technology, Engineering, and Mathematics (STEM)
- Multidisciplinary Studies

To qualify as part of the top ten percent of their graduating class, students must complete an endorsement and successfully complete Algebra II.



## State Testing

Students are now required to pass five State of Texas Assessments of Academic Readiness (STAAR®) end-of-course (EOC) exams to meet the new graduation requirements:

- Algebra I
- Biology
- English I
- English II
- US History

## High School Grade-Level Classification

Promotion, grade-level advancement, and course credit shall be based on mastery of the curriculum. Grade-level advancement for students in grades 9 through 12 shall be determined by course credits and the student's original year of entry into grade nine. At the start of the school year, a students' grade level may be reclassified based on the number of credits the student has earned. The chart below shows how many credits students should earn to be considered in each grade level:

Grade Classification Requirements	
Freshmen (9)	0 to 4.5 credits earned
Sophomore (10)	5.0 to 11.5 credits earned
Junior (11)	12.0 to 17.5 credits earned
Senior (12)	18.0 or more credits earned

For more specific information about what classes are needed for graduation and the specific credits that have been earned, please check the Skyward Parent Portal and review graduation requirements. Please contact your counselor for more information.

# Foundation High School Program (FHSP)

This program contains up to four parts:

- A 22-credit foundation program which is the minimum standards required
- Five endorsement options that allow students to focus on a related series of courses
- A higher performance category called **Distinguished Level of Achievement**
- Performance Acknowledgments that note outstanding achievement

Foundation Program						
English	Math	Science	Social Studies	Required	Electives	Total Credits
English I (EOC)	Algebra I (EOC)	Biology (EOC)	World Geography or World History	PE 1.0 credit	Electives 5 credits	
English II (EOC)	Geometry	IPC, Chemistry, or Physics	US History (EOC)	Foreign Language 2.0 credits		
English III	Additional Math	Additional Science	Government and Economics	Fine Arts 1.0 credit		
Additional English						
English Credits 4.0	Math Credits 3.0	Science Credits 3.0	Social Studies Credits 3.0	Required Credits 4.0	Elective Credits 5.0	22
Endorsement Option						
English	Math	Science	Social Studies	Required	Electives	Total Credits
	Additional Math	Additional Science	Additional Social Studies Recommended		Additional Elective	
English Credits 4.0	Math Credits 4.0	Science Credits 4.0	Social Studies Credits 4.0	Required Credits 4.0	Elective Credits 6.0	26

## Endorsement Options:\*



Arts and Humanities



Business and Industry



Public Services



Science, Technology, Engineering, and Mathematics (STEM)



Multidisciplinary Studies

## Distinguished Level of Achievement\*\*

"Recommended plan for all Sheldon ISD students"

- Foundation Program requirements
- 4 credits in math including Algebra II
- 4 credits in science
- At least 1 endorsement

## Sheldon ISD Recommended

- 4 credits in social studies
- Business Information Management I

\***Distinguished Level of Achievement (DLA)**: Students must complete an endorsement and take Algebra II as one of the 4 math requirements in order to complete the DLA and be eligible for the Top 10%.

\*\***Endorsement Options**: Students have the option to earn multiple Endorsements.

## Performance Acknowledgments

- Dual credit courses
- Bilingualism and biliteracy
- PSAT, ACT-ASPIRE, SAT or ACT
- Advanced Placement or International Baccalaureate exam
- Earning a nationally or internationally recognized business or industry certification or license

## Benefits of the Distinguished Level of Achievement for Graduation

The information below is provided by the Texas Education Agency and is intended to be an overview of the general benefits of the FHSP plus Endorsements to include Algebra II. Sheldon ISD strongly encourages all students to research college admission requirements for the college or university they wish to attend. Many competitive college or university admission requirements may be more stringent than the requirements of Distinguished Level of Achievement (i.e. mathematics beyond Algebra II).

<b>Choices determine options</b>	Most of the very best jobs available now and in the future require education and training beyond a high school diploma. Whether you intend to pursue a high-demand, industry workforce credential from a community or technical college or a traditional four-year degree from a university, the choices made in high school will determine your future options. To best prepare yourself now for the transition to post-high school education or quality workforce training, choosing and taking the right classes is essential. The Distinguished Level of Achievement will ensure the best preparation for your future.
<b>Why it matters — Benefits</b>	<p>The Distinguished Level of Achievement opens a world of educational and employment opportunities for you beyond high school. The Distinguished Level of Achievement will:</p> <ul style="list-style-type: none"><li>• Allow you to compete for Top 10% automatic admissions eligibility at any Texas public university;</li><li>• Position you among those first in line for a TEXAS Grant (see page 15 for more information) to help pay for university tuition and fees; and</li><li>• Ensure you are a more competitive applicant at the most selective colleges and universities.</li></ul>
<b>Advantages</b>	<ul style="list-style-type: none"><li>• Opportunity to earn an endorsement in an area of interest</li><li>• More college and university options</li><li>• More financial aid options</li><li>• Better preparation for college-level coursework at community/technical colleges and universities</li><li>• Opportunity for immediate enrollment in classes related to your chosen field of study</li><li>• Strong foundation to successfully complete an industry workforce credential or college degree</li></ul>

## Performance Acknowledgements

Students may earn a performance acknowledge for outstanding performance through:

Dual credit courses	<ul style="list-style-type: none"><li>• Take at least 12 hours of college academic courses (with a grade of 3.0 or higher)</li><li>• Earn an associate degree while in high school</li></ul>
Bilingualism and biliteracy	<ul style="list-style-type: none"><li>• Must complete English requirements (GPA of at least an 80)<ul style="list-style-type: none"><li>✓ complete a minimum of 3 credits of LOTE courses with a minimum GPA of 80c</li><li>✓ demonstrate proficiency of TEKS for Level IV in LOTE with a minimum GPA of 80</li></ul></li><li>• Completion of 3 credits in foundation subject area courses in LOTE with a minimum GPA</li><li>• Score of 3 or higher on AP exam in LOTE</li><li>• Score of 4 or higher on IB exam in LOTE</li><li>• Performance on a national assessment of language proficiency in LOTE of at least intermediate level</li><li>• Participated and met exit criteria for bilingual or ESL program</li><li>• Scored at the Advance High Level on TELPAS</li></ul>
PSAT, ACT-ASPIRE, SAT or ACT	<ul style="list-style-type: none"><li>• PSAT: Score that qualifies student for recognition as a commended scholar or higher</li><li>• ACT-ASPIRE: Achieving the college readiness benchmark score on at least 2 of the 4 subject tests</li><li>• SAT: 410 on evidence-based reading and 520 on math</li><li>• ACT: Earning a composite score of 28 (excluding writing)</li></ul>
Advanced Placement or International Baccalaureate exam	<ul style="list-style-type: none"><li>• Score of 3 or higher on AP exam</li><li>• Score of 4 or higher on IB exam</li></ul>
Earning a nationally or internationally recognized business or industry certification or license	<ul style="list-style-type: none"><li>• Performance on an examination sufficient to obtain a nationally or internationally recognized industry certification</li><li>• Performance on an examination sufficient to obtain a government required credential to practice a profession</li></ul>

# Arts and Humanities Endorsement



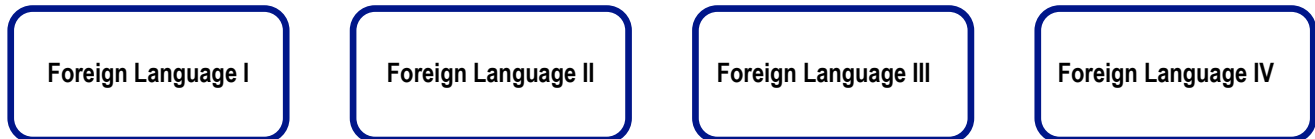
## Overview

Students in this endorsement will learn the best ways to figure out how to understand and relate to people whether it is through history, literature, or fine arts. Since the Arts and Humanities Endorsement covers a broad area, students will have to opportunity to prepare for hundreds of different careers. Careers such as audio recording, film and television, journalism, broadcasting, telecommunications, and historians are just a few options available to students in this area. Students have five options for completing an Arts and Humanities Endorsement.

**Option 1:** A total of **five** credits in **social studies** (*example*):



**Option 2:** **Four** levels of the same language other than English:



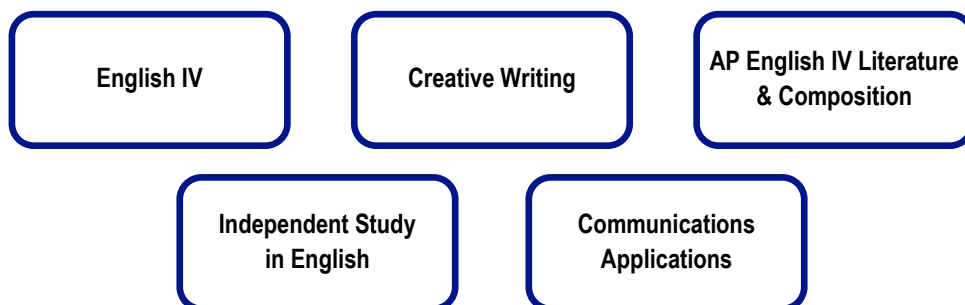
**Option 3:** **Two** levels of the same language other than English and **two** levels of a different language other than English (*example*):



**Option 4:** A coherent sequence of **four** credits from one or two disciplines in Fine Arts (*example*):



**Option 5:** **Four** English elective credits by selecting from the following:



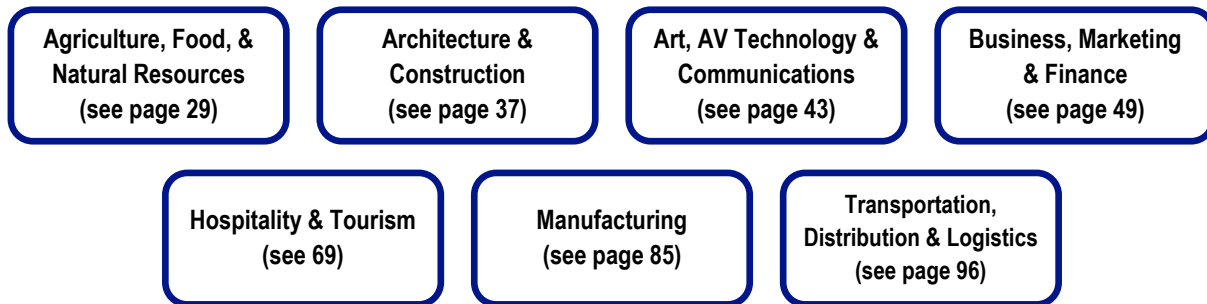
# Business and Industry Endorsement



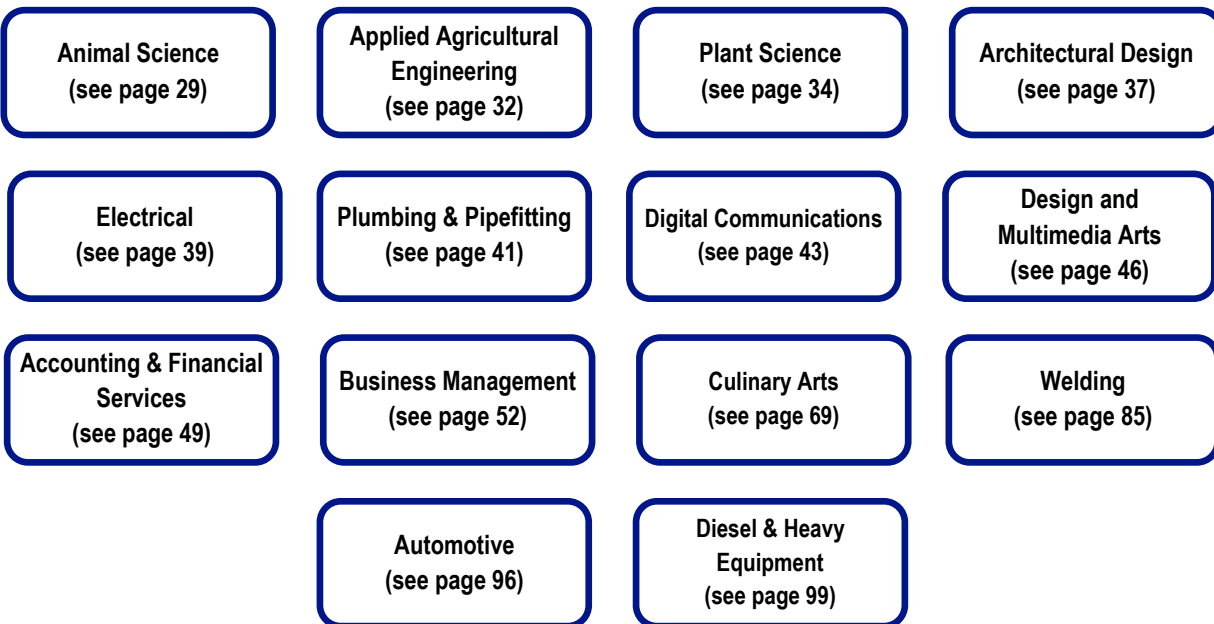
## Overview

The Business and Industry Endorsement prepares students for success. Business impacts everything in our world, and business is flourishing in Texas. Ranging from small business owners to international corporate headquarters, there is a growing need for employees with technical skills, communication skills, time-management, organizational skills, and financial knowledge. The Business and Industry Endorsement offers three options and eleven different pathways which means there is something here to interest almost everyone.

**Option 1:** A **coherent** sequence of courses for **four** or more credits in CTE that consists of at least two courses in the same career cluster and at least one advanced CTE course. The final CTE course in the sequence must be selected from one of the following career clusters:



**Option 2:** Courses required to complete a TEA-designated **Program of Study** related to Business and Industry:



**Option 3:** **Four** English elective credits to include 3 credits in the following area:



# Public Service Endorsement



## Overview

The Public Service Endorsement is for students who are interested in making a lasting contribution to society by serving the community. This endorsement offers some of the most in-demand careers through five pathways.

**Option 1:** A **coherent** sequence of courses for **four** or more credits in CTE that consists of at least two courses in the same career cluster and at least one advanced CTE course. The final CTE course in the sequence must be selected from one of the following career clusters:

Education & Training  
(see page 55)

Health Science  
(see page 58)

Human Services  
(see page 72)

Law & Public Service  
(see page 77)

**Option 2:** Courses required to complete a TEA-designated **Program of Study** related to Public Service:

Teaching & Training  
(see page 55)

Health Informatics  
(see page 58)

Healthcare Diagnostics  
(see page 61)

Healthcare Therapeutic  
(see page 64)

Nursing Science  
(see page 67)

Cosmetology &  
Personal Care Services  
(see page 72)

Family and Community  
Services  
(see page 74)

Emergency Services  
(see page 77)

Law Enforcement  
(see page 79)

Legal Studies  
(see page 82)

**Option 3:** **Four** courses in Junior Reserve Officer's Training Corp (JROTC):

AFJROTC I

AFJROTC II

AFJROTC III

AFJROTC IV

# Science, Technology, Engineering, and Mathematics (STEM) Endorsement



## Overview

This endorsement includes courses directly related to science, technology (including computer science), engineering, and advanced mathematics. Students in this endorsement must successfully complete the following courses and select an option below.

Algebra II

Chemistry

Physics

**Option 1:** A **coherent** sequence of courses for **four** or more credits in CTE. Two courses must be in the same career cluster and one advanced CTE course, which includes any course that is the third or higher course in a sequence. The final CTE course in the sequence must be selected from the STEM career cluster.

**Option 2:** Courses required to complete a TEA-designated **Program of Study** related to STEM:

Biomedical Science  
(see page 87)

Cybersecurity  
(see page 89)

Engineering  
(see page 91)

Programming &  
Software  
Development  
(see page 93)

**Option 3:** A total of **five** credits in **math** – two credits requiring Algebra II as a prerequisite (example):

Algebra I

Geometry

Algebra II

Pre-calculus

AP Calculus

**Option 4:** A total of **five** credits in **science** by successfully completing biology, chemistry, physics and two additional science courses (example):

Biology

Chemistry

Physics

AP Biology

AP Chemistry

**Option 5:** In addition to Algebra II, Chemistry, and Physics, a coherent sequence of three additional credits from no more than two of the areas listed in Option 1, Option 2, Option 3, or Option 4.

# Multidisciplinary Endorsement



## Overview

Students who pursue the Multidisciplinary Endorsement will have a broad prospective of education. This endorsement allows students to explore advance courses from other endorsements. Also, the Multidisciplinary Endorsement applies to students who want to take various dual credit or advance placement courses.

**Option 1:** **Four** advanced courses that prepare for workforce successfully or postsecondary education from within one endorsement area or among endorsement areas that are not in a coherent sequence (example):

Business Information Management II	Accounting II	Art III	Advanced Journalism: Yearbook Production III
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**Option 2:** **Four** credits in each of the foundation subject areas to include English IV and Chemistry and/or Physics (example):

English IV	Chemistry or Physics	Pre-calculus or Advanced Math	World History
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**Option 3:** **Four** credits in Advance Placement, International Baccalaureate, dual credit, or district designated courses selected from English, mathematics, science, social studies, economics, languages other than English, or fine arts. Courses include:

College Algebra Dual Credit	English IV Dual Credit	United States Government Dual Credit	United States History Dual Credit
Communication Applications Dual Credit	Introduction to Philosophy Dual Credit	Learning Framework Foundations of Success Dual Credit	Introduction to Sociology Dual Credit
Introduction to Psychology Dual Credit	Introduction to Sociology Dual Credit	AP English III Language and Composition	AP English IV Literature & Composition
OnRamps English Dual Enrollment	College Preparatory English	AP Art & Design	AP French Language and Culture
AP Spanish IV Language and Culture	AP Calculus AB	OnRamps College Algebra Dual Enrollment	AP Statistics
AP Pre-Calculus	College Preparatory Mathematics	AP Biology	AP Chemistry
AP Physics I	Environmental Systems	Earth and Space Science	AP Macroeconomics
AP United States History	AP U.S. Government and Politics	AP World History	United States History through Film

# General Registration Information

## Daily Schedule of Classes

C.E. King High School operates on a semester system with eight periods. One year's work will provide one credit in each course or a maximum total of eight credits per school year. Additional non-EOC credits may be earned in summer school, Star Lab after school and credit-by-exam.

## Scheduling Philosophy

- Courses for the following year are selected during the spring semester of the student's prior year. Students meet with counselors in conferences to ensure proper academic placement.
- Think carefully about your selections, especially advanced level classes!
- Teachers and staff are hired, and the master schedule is set according to student selections; therefore, staffing needs are dependent upon the integrity of this process.

## Schedule Change Procedures

No drops, adds, or schedule changes will be allowed after the first day of school. All requests for course changes need to be made by June 15th for the following school year. Exceptions will be made to this procedure if credit was previously earned for a course scheduled.

### Possible reasons for schedule changes to be considered:

- A senior is not enrolled in a course REQUIRED for graduation.
- A student is scheduled into a class for which he/she already has credit.
- A student is scheduled into a class for which the student does not have the required prerequisite, did not apply, or try out for the program.
- An error in scheduling occurred.
- An academic level change occurs due to an academy committee's recommendation.

### Possible reasons for schedule changes NOT to be considered:

- Requests for a teacher change
- Requests for a lunch change
- Requests for an elective change

### Remember:

- If a student changes academic levels, the grade is not adjusted.
- In order to earn weighted grade points, a student must maintain a semester average of 70 and remain in the class for the entire semester.

## GPA

Course grade averages are reported in the familiar 100 - point system on the report card. Grade point average and class ranking are computed using the weighted 4.0 scale. This scale is used to weight the grades obtained in courses of varying levels of difficulty (Collegiate Rigor, Advanced Rigor, and General Rigor). The courses considered towards calculating the grade point average are the core courses -Mathematics, Social Studies, Science, English and Foreign Languages.

Percentage	Grade Letter	Collegiate Rigor	Advanced Rigor	General Rigor
100	A	6.0	5.0	4.0
99	A	5.9	4.9	3.9
98	A	5.8	4.8	3.8
97	A	5.7	4.7	3.7
96	A	5.6	4.6	3.6
95	A	5.5	4.5	3.5
94	A	5.4	4.4	3.4
93	A	5.3	4.3	3.3
92	A	5.2	4.2	3.2
91	A	5.1	4.1	3.1
90	A	5.0	4.0	3.0
89	B	4.9	3.9	2.9
88	B	4.8	3.8	2.8
87	B	4.7	3.7	2.7
86	B	4.6	3.6	2.6
85	B	4.5	3.5	2.5
84	B	4.4	3.4	2.4
83	B	4.3	3.3	2.3
82	B	4.2	3.2	2.2
81	B	4.1	3.1	2.1
80	B	4.0	3.0	2.0
79	C	3.9	2.9	1.9
78	C	3.8	2.8	1.8
77	C	3.7	2.7	1.7
76	C	3.6	2.6	1.6
75	C	3.5	2.5	1.5
74	C	3.4	2.4	1.4
73	C	3.3	2.3	1.3
72	C	3.2	2.2	1.2
71	C	3.1	2.1	1.1
70	C	3.0	2.0	1.0
69	F	0.0	0.0	0.0

Class rankings are calculated twice per year, once after the fall semester and thereafter following the completion of the spring semester.

# Texas Grant Programs

The State of Texas has developed several programs to encourage students to pursue a strong academic high school program which will adequately prepare them for further study as well as face challenges in the twenty-first century work place. These programs focus on admissions, grants, tuition exemptions, and financial aid, which will enable well-prepared, eligible students to attend public and non-profit institutions of higher learning in the State of Texas. Some programs specify that students must graduate under the Distinguished Level of Achievement High School Program.

## **Top Ten Percent Admissions**

Applicants from accredited Texas schools who graduate in the top ten percent of their high school class shall be admitted to most general academic institutions if the students meet the following conditions:

- **Must be a Texas resident or eligible to pay resident tuition;**
- **Must successfully complete the Distinguished Level of Achievement under the Foundation High School Program OR earn a score on the ACT or SAT Exams that meets the college readiness benchmarks;**
- **Apply no later than two years after graduating from high school;**
- **Submit a completed application prior to filing deadlines set by the college;**
- **Provide additional documents requested by the college, including essays, letters of recommendations, admissions tests and high school transcript.**



*Note: Colleges may limit the number of first time freshmen eligible for admission due to enrollment caps. Although it is currently not a condition for admission under this program, it is advisable for high achieving, college bound students to plan to graduate under the Distinguished Level of Achievement High School Program. In some instances, students may be admitted to the university but not the college of choice within the university. Colleges may admit students on a first-come-first-admitted basis or may use a lottery system.*

## **Toward Excellence, Access, and Success (TEXAS) Grant Program**

The Texas Grant Program establishes grants to cover tuition and fees to Texas public and independent colleges and universities, including community colleges and technical schools for students with financial need who successfully complete the recommended or distinguished achievement high school graduation programs.

Students who continue in college and who meet program academic standards can receive awards up to 150 semester credit hours or six years, whichever comes first. In the first year of college, the academic standards are set by the institution. In subsequent years, the requirements are completion of least 75 percent of the hours taken in the prior semester, plus an overall grade point average in college of at least 2.5 on 4.0 scale.

Awards will be made through the financial office of the college. Persons interested in the program should contact the financial aid office to find out about deadlines and procedures.

## **Toward Excellence, Access, and Success (TEXAS) Grant II Program**

The purpose of the program is to provide a grant of money to enable well-prepared eligible students to attend public community colleges, Technical colleges, or public state colleges in Texas. Students must be a Texas resident, have a financial need, enroll in the first thirty hours in college, and have not been convicted of a felony or a crime involving a controlled substance.

### **Other Texas Financial Aid Programs**

Other scholarships, grants, and financial aid, including tuition exemption, loans, and work-study are available including a tuition rebate program from Texas public universities, the Texas B-On-Time student loan program, a loan repayment program for teachers, and the Tuition Equalization Grant (TEG). Students should begin preparing for these opportunities early in their high school years. Students should develop a portfolio, which shows evidence of high achievement in a strong academic program as well as contributions to their school and community by participating in extracurricular activities and community organizations and projects.

### **General Information**

Texas Financial Aid Information Center

Exemption Information

Toll free: (877) 782-7322

1-800-242-3062, Ext 6387

1-888-311-8881 to get financial aid questions answered

Texas Higher Education Coordinating Board

Web Address: <https://www.highered.texas.gov/>

## **Advanced Academic Courses**

### **What is the Advanced Placement program?**

Advanced Placement (AP) is a program that allows high school students to participate in college level courses and possibly earn college credit while still in high school. The Advanced Placement courses are taught in high schools by qualified high school teachers with specialized training in AP instructional strategies. Pre-Advanced Placement (Pre-AP) classes challenge students to develop the skills that prepare them for the college-level work of AP courses. Sheldon ISD offers Advanced Placement courses to students who are ready and willing to engage in college level course content and rigorous academics. Courses are available in English, social studies, mathematics, science, Spanish, French, music, and art.

- Typically offered to juniors and seniors
- Academically challenging
- Require extensive reading and writing outside of class
- Weighted GPA
- Curriculum and placement exams are developed by The College Board
- Potential to earn college credit based on AP exam scores

The Advanced Placement curriculum is aligned to course descriptions governed by The College Board, a nationally recognized organization that also authorizes the syllabus of each AP teacher. Though The College Board outlines the course content, describes the curricular goals, and provides sample examination questions, AP teachers have the flexibility to determine how the content is presented.

### **Benefits of Advanced Placement Courses**

Students who take AP courses will challenge themselves, sharpen their academic skills, and learn to think independently. AP students are provided the opportunity to earn college credit while in high school without paying tuition. Studies have shown that AP students are:

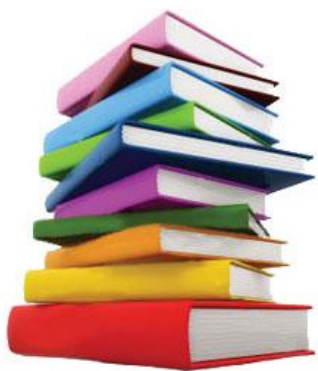
- Better prepared academically for college
- Able to perform significantly better over four years in college
- More likely to be leaders
- More apt to earn higher first-year GPAs in college

To learn more about the AP Program, review The College Board's website at <https://apstudents.collegeboard.org/>.

## **Earning College Credit**

In May of each year, students are provided the opportunity to earn college credit by taking AP exams. Although not required, Sheldon ISD students enrolled in AP courses are expected to take the AP exam that accompanies the AP course in which the student is enrolled. If the student takes the associated AP exam, advanced placement and/or college credit may be awarded upon college entrance. Scores on the AP exam range from 1 (no recommendation) to 5 (extremely qualified). Each college or university determines the scores it will accept for credit, but most qualify a score of at least 3. Currently more than 90 percent of colleges and universities across the country offer college credit, advanced placement, or both, for qualifying AP Exam scores. Students can research The College Board website (<https://apstudents.collegeboard.org/getting-credit-placement/search-policies>) to review the Advanced Placement and credit policies for a specific college or university.

By earning a qualifying score on an AP exam, students can save thousands of dollars on college tuition, fees, and textbooks. The AP student is only responsible for the cost of each AP exam; however, limited financial assistance is available, and the cost of the exam is small compared to the costs associated with a typical college course. Over the past few years, the cost of each AP exam has ranged from \$15 to \$87, depending on the student's economic status and the availability of district scholarships, and national and state subsidies.



## **Enrolling in AP courses**

Sheldon ISD encourages all students to pursue educational opportunities to meet their future goals, and follows The College Board policy of open enrollment. However, a decision about placement in advanced courses ultimately rests with the students and their parents. Families should communicate with teachers and counselors about the challenges of the advanced curriculum and the skills needed for student success. Any student with the guidance of a parent, teacher and counselor can enroll in an advanced course. Some AP courses may have prerequisite courses that must be completed prior to enrollment. Such courses are indicated in the course catalog. Students who choose to enroll should be prepared for the increased academic rigor of these courses. Upon successful completion of the course, the student receives high school credit.

## **The College Board's Equity and Access Policy Statement**

"The College Board strongly encourages educators to make equitable access a guiding principle for their AP programs by giving all willing and academically prepared students the opportunity to participate in AP. We encourage educators to:

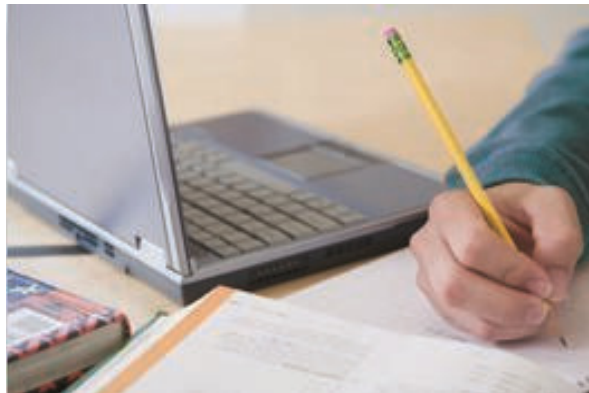
- Eliminate barriers that restrict access to AP for students from ethnic, racial, and socioeconomic groups that have been traditionally underserved.
- Make every effort to ensure their AP classes reflect the diversity of their student population.
- Provide all students with access to academically challenging coursework before they enroll in AP classes."

To enroll in an AP course, it is recommended that the student has passed the state assessment in the related subject area and select courses in their area(s) of strength. Students should also take advantage of Pre-AP courses that build the skills needed for success in AP courses. Students are encouraged to challenge themselves but also to find a balance among advanced courses, extra-curricular activities and outside activities. The decision about enrolling in multiple advanced courses simultaneously should be an individual decision based on the schedule, personal commitments and the interests of each student. Careful consideration should be given to the instructional needs of the individual student. Students and parents should be proactive about the academic support that may be needed to be successful in an advanced course. For example, AVID, an elective class, is available to students via an application process. AVID students receive academic, tutorial and motivational support during the school day to succeed in a college preparatory sequence.

### ***Attributes of Successful AP Students***

AP students are expected to work at an accelerated pace and to engage in outside reading and independent learning as if they were enrolled in a course at a college campus. Before enrolling in Pre-AP and AP courses, consider the following attributes of successful AP students:

- Intense interest in exploring the course material
- Strong personal commitment to accomplishing objectives and requirements of course
- Successful academic history of passing grades in the course content
- Ability to organize and dedicate approximately 3-8 hours weekly for studying and assignments
- Strong work ethic and perseverance when the content is challenging
- Completion of all prerequisite courses as listed in course handbook
- Independent and guided research
- Willingness to seek help (AVID, tutorials)
- Commitment to extended reading and writing at home
- Adheres to deadlines for submitting work that meets the course requirements
- Good attendance with the ability to resolve missed assignments quickly without prompting
- Strong critical thinking skills in the areas of reading, writing, and analysis



Parents and guardians of AP students should contact the student's teachers immediately if they have any concerns regarding the student's progress or have questions about whether or not a student should enroll in an AP course.

### ***Exiting AP Courses***

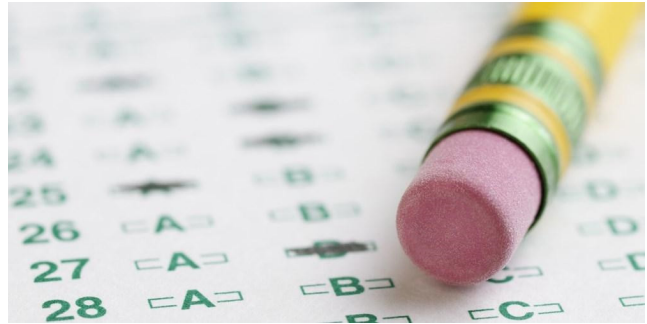
Students should conference with the teacher and seek help, such as tutorials, when experiencing difficulty in an advanced course. The parent/guardian of a Pre-AP or AP student can request a different level of placement after the parent, teacher, and student have implemented an intervention plan that has not proven effective within the first six weeks of school. A teacher might also initiate contact with the parent to recommend additional support or a different placement for a student who is failing the course. After the first six weeks, a student will not be allowed to exit a course without first convening a committee consisting of the student, his/her parent or guardian, the teacher, principal, and counselor. Students and parents will be provided with grades and assessment data prior to any decision that could result in a different placement. If a student is removed from an advanced course, the transfer grade and credit will follow the student. In addition, schedule changes are also contingent upon the availability of space in an equivalent content area classroom, and may result in the student's schedule being rearranged.

# High School Credit Alternatives

High school counselors can provide information, answer questions, and in some instances, help students enroll in courses outside the regular school day. The following options are available to Sheldon ISD students.

## ***Credit-by-Exam without Prior Instruction***

In accordance with the Texas Education Code 74.23, Sheldon ISD will administer examinations for specified courses to eligible students. Credit-by-exam will serve primarily as the vehicle for students to be given credit for a course they have not yet taken formally. The passing standard is a grade of 80+. A grade of 70 and credit earned on the credit-by-exam will be placed on the student's transcript and will not be used in GPA and class rank calculations. Students wishing to take this exam should see their counselor for application. The exams are scheduled four times a year. Early in fall semester, end of fall semester, late in spring and again in the summer. The dates may vary within state influence.



## ***Credit-by-Exam with Prior Instruction***

Students who have engaged in study in a curriculum that cannot matched exactly with required TEKS of a course may consider credit-by-exam. These students may have studied in a foreign country, a non-accredited school, home school, or want credit for summer enrichment courses both in and out of state. The passing standard is a grade of 70+. The passing grade and credit earned on the credit-by-exam will be placed on the student's transcript and will not be used in GPA and class rank calculations. A fee of \$19.00 is charged for each credit-by-exam with prior instruction if payment is received in time to be submitted with other tests being ordered.

All required end of course exams must be administered whether credit is gained through regular course work or credit by exam while enrolled in Sheldon. For more information, see your counselor.

High school students who meet district requirements for enrolling in the course and pass college readiness assessments may enroll in dual credit courses. Principal approval is required.

## ***College Course Work – Dual Credit***

A student may earn both high school credit and college credit through successful completion of approved college courses. A student will be awarded credit toward graduation only if he/she obtains prior approval from the appropriate district personnel. Specific requirements and procedures are available in the counselors' office.

## ***S.T.A.R. Lab***

Success through Academic Recovery is a program that utilizes a computer lab for curriculum support. Through the STAR Lab, students may be able to take courses not presently offered in the regular schedule or retake a course when credit has been lost. The STAR lab is offered after school for a fee of \$10.00 per course. See your counselor for more information.

# Academic Dual Credit Program

## Everyone Wins with Dual Credit

Dual credit refers to a partnership between a school district and a university or college. A dual credit course is a college course taken by a high school student for which the student earns both high school and college credit. Academic dual credit courses may be taught at the high school or college location.

## Get a Jump Start on College

Academic dual credit enables students to make substantial progress toward a college degree before they finish high school. Students who begin taking courses in their junior year might earn 24 or more college credits by the time they graduate from high school. Students learn what college professors expect and begin making successful transitions from high school to college.

## Parents Save Money

Students are responsible for the academic dual credit tuition, fees, and textbooks. The tuition and fees, which can be paid in installments, are payable to San Jacinto College North. However, Sheldon ISD partners with colleges and universities that discount tuition as much as 75%. Parents especially appreciate the academic dual credit program because it is inexpensive and reduces their concerns about the rising costs of college.

**Estimated Costs for 6 hours of college credit (2 classes)**

	In District	Out of District	Non-Resident
Dual Credit Tuition and Fees	\$117.00	\$202.50	\$315.00
San Jacinto College Rates without the Dual Credit Discount	\$468.00	\$810.00	\$1,260.00

## Academic Dual Credit Courses

Academic courses are those typically required of students who intend to transfer credits and pursue an associate or baccalaureate degree at a college or university. Core or elective courses are available in subjects such as English, history, math, science, sociology, psychology, speech, and business computing. Students are responsible for ensuring that dual credit courses will transfer to the four-year university that they plan to attend. Dual credit students will also be required to take any corresponding STAAR End of Course exams. Grades are recorded on the high school transcript according to the Sheldon ISD grade point system. The college or university will also record grades on a separate college transcript.

## Eligible Students

- Are full-time students at C.E. King High School
- Meet the Texas Success Initiative (TSI) admissions requirements of the college or university
- Receive approval of the high school principal
- Provide proof of current bacterial meningitis vaccine to high school nurse

## Example Academic Dual Credit Course Sequence

Grade	Fall Term	Spring Term
11 <sup>th</sup> Grade	History 1301 and Education 1300	History 1302 and Speech 1315
12 <sup>th</sup> Grade	English 1301 and Government 2305	English 1302 and Government 2306

### **The Texas Success Initiative**

The Texas Success Initiative (TSI) is a state mandate that requires students to be assessed in reading, writing and math skills prior to enrolling in college level courses. A high school student can demonstrate college readiness in math, reading and/or writing by achieving a readiness score on an assessment listed below:

Assessment	College Readiness in Reading and Writing	College Readiness in Math
PSAT	Combined score of 107 with a minimum of 50 on the reading test (taken prior to 9/1/2015)	Combined score of 107 with a minimum of 50 on the math test (taken prior to 9/1/2015)
STAAR End of Course Exams	Level 2 Final score of 4000 on English II EOC	Level 2 Final score of 4000 on Algebra 1 EOC with passing grade in Algebra II
ACT	Composite score of 23 with 19 on English test	Composite score of 23 with 19 on math test
SAT (prior to 3/5/2016)	Combined verbal and math score of 1070 with a minimum of 500 on the verbal test	Combined verbal and math score of 1070 with a minimum of 500 on the math test
SAT (on or after 3/5/2016)	Minimum score of 480 on the Evidenced-Based Reading and Writing test	Minimum score of 530 on the math test
Texas Success Initiative Assessment	Minimum score of 945 on the multiple-choice section with an essay score of 5-8, or less than 945 on the multiple-choice section, a diagnostic level of 5 or 6, and an essay score of 5-8	Minimum score of 950 or less than 950 and a diagnostic level 6

The college-ready criteria are subject to change according to the Texas Higher Education Coordinating Board.

### **Dual Credit Grade Conversion**

Beginning with the 2023-24 school year, a letter grade awarded for a student enrolled in a district approved dual credit course shall be converted to the following:

Letter Grade	Numerical Conversion
A	95
B	85
C	77
D	73
F	65
FX	50

**Specialized Academic Dual Credit Programs**

Sheldon ISD offers two academic programs which provide opportunities to earn an associate’s degree while in high school:

- C.E. King High School Modified Early College Academy (MECA)

MECA is a program designed by administrators and counselors of San Jacinto College North and Sheldon Independent School District to provide students the opportunity to earn high school credit while simultaneously earning an associate degree at San Jacinto College North. Students applying to the MECA program should be enrolled in Pre-AP Algebra II. MECA students enroll in 23-26 college credit hours (approximately eight college classes) during their junior and senior years of high school and attend at least one summer session prior to their junior year. The college credits are matched with the credits needed for high school graduation. Refer to the sample MECA college degree plan on page 24 and see a counselor for details.

- Sheldon Early College High School

An initiative of the Texas Education Agency (TEA), ECHS campuses are innovative high schools that allow students an opportunity to earn a high school diploma and up to 60 college credit hours. Program goals include graduation from high school, meeting the Texas Success Initiative criteria for college entrance, and completing core college courses. ECHS students enroll in dual credit at no cost to parents, take rigorous, accelerated courses, and participate in academic and social support services to help them succeed. Sheldon ECHS, a partnership with San Jacinto College North, is a small learning community located on the C.E. King High School campus. Students in the ECHS begin taking college courses in the ninth grade. To achieve the TEA approval required to run an officially recognized ECHS, Sheldon ISD must apply for designation annually.

Each year, up to 120 eighth graders are accepted into the ECHS via an application process. Applications are available from eighth-grade counselors and on the Sheldon ISD website. Should more than the maximum number of applicants qualify for admission, a waiting list and/or lottery will determine admission. As per TEA, priority should be provided to at-risk students historically underrepresented in colleges and universities. Positions are filled until the first day of school. Military dependents and students transferring from another early college high school may apply upon enrollment in Sheldon Independent School District. The college degree plan follows the MECA plan and is individualized to meet each student’s career goals.

**University of Texas OnRamps**

OnRamps is a dual-enrollment program designed to increase the number and diversity of students who engage in college courses designed by faculty at The University of Texas at Austin and taught by high school teachers. Sheldon ISD offers OnRamps course in English, College Algebra, and Physics. During the first semester, the student must complete the coursework and meet the academic requirements to earn college credit in the spring. The university professor will award students the appropriate grade based on their performance for the college course. The high school teacher will separately award credit for the grade earned in the high school course, which may differ from that for the college course. Students will achieve college hours on a University of Texas transcript by successfully completing the college course.

Unless grant or special funding is available, OnRamps requires a one-time, annual non-refundable fee per student for each course. The fee is due prior to the beginning of the fall semester and includes course materials, the learning management system, and technology tools.

OnRamps Annual Fee	\$149.00
Those who qualify for free and reduced lunch OnRamps Fee	Free



## MODIFIED EARLY COLLEGE ACADEMY (MECA)

### *Sample Plan Below*

*(Plans may change according to degree)*

Summer (Incoming Junior)	SPCH 1315/MUSI 1310 or ARTS 1301	6
Fall (Junior)	HIST 1301	3
	HUMA 1301	3
	BIOL 2301/1101	3
	MATH 1314	3
Spring (Junior)	HIST 1302	3
	SOCI 1301	3
	BIOL 2302/2102	3
	MATH 2412	3
Summer (Incoming Senior)	EDUC 1300/EDUC 1100	6
Fall (Senior)	ENGL 1301	3
	GOVT 2305	3
	BIOL 1306/1106	3
	PSYC 2301	3
Spring (Senior)	ENGL 1302	3
	GOVT 2306	3
	BIOL 1307/1107	3
	SPCH 1315	3
		60

\* Mini courses and summer options are available. Courses in the MECA plan are subject to change based on the student's career plan and course availability.

# Portrait of a Sheldon ISD Graduate

A student who graduates from Sheldon ISD will be able to demonstrate the following characteristics:

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## **Global Citizen**

- Respects and values individual rights, cultural and linguistic diversity, and heritage
- Demonstrates self-discipline, honesty, respect, and integrity
- Initiates and accepts personal accountability
- Maintains a balanced, healthy lifestyle
- Values others regardless of strengths/challenges
- Technologically skilled
- Promotes/seeks language learning
- Understands world issues and current events
- Geographically literate
- Participates actively in society
- Respects the environment
- Communicates effectively
- Ethical

## **Effective Communicator**

- Communicates clearly and skillfully, using a variety of techniques and media
- Uses technology to access, analyze, organize, and process information
- Participates actively
- Listens sensitively
- Provides and accepts appropriate feedback
- Recognizes the benefits of communicating in more than one language
- Effectively and courageously advocates for self and others
- Builds relationships
- Disagrees respectfully
- Compromises
- Sees problems from multiple perspectives
- Builds consensus
- Recognizes that the group is stronger than its individual members
- Understands different audiences

## **Academically Prepared**

- Technologically skilled
- Possesses constructive work habits and effective study skills
- Prepared to pursue post high school training, college, and/or certification
- Possesses 21st Century knowledge and skills to achieve a positive future

### **Self-Directed Learner**

- Takes intellectual risks and learns from mistakes
- Recognizes that knowledge and skills must be acquired and applied in order to adapt to inevitable change
- Continually seeks new avenues for personal and professional growth
- Intrinsically motivated and sets high expectations for self and others
- Demonstrates initiative and perseverance
- Demonstrates wise time management skills
- Accepts responsibility for own learning and achievement
- Sets and achieves individual academic learning goals for the future (college and career) and perseveres to achieve them
- Proactively seeks out information

### **Collaborative Skills**

- Contributes to group efforts with ideas, suggestions, and hard work
- Demonstrates effective leadership skills by communicating ideas and motivating others
- Recognizes, appreciates, and respects others' points of view
- Builds consensus and negotiates appropriate solutions
- Values group members regardless of strengths/challenges
- Disagrees respectfully
- Takes a role/opinion/position within a group
- Compromises
- Sees problems or issues from multiple perspectives
- Recognizes that the group is stronger than individual members
- Leads, delegates, and collaborates in order to achieve a common, focused goal
- Listens actively and asks questions to seek understanding
- Seeks out collaborators beyond their peer group
- Builds relationships for meaningful discourse

### **Skilled Problem Solver**

- Perceives and assesses problems and challenges
- Generates new ideas
- Adapts to changing environments
- Demonstrates skills in organization, analysis, interpretation, evaluation, and flexibility
- Identifies alternatives for conflict resolution and problem-solving in a timely manner
- Employs higher order thinking and sound reasoning
- Asks effective questions to seek knowledge and construct meaning
- Utilizes organizational skills to set goals and create plans
- Takes intellectual risks with flexibility and tenacity
- Exhibits an independent work ethic
- Leverages strengths in tandem with global viewpoint to see problems from multiple perspectives
- Accesses and assembles resources to build consensus

# Course Listings

## Career and Technical Education (CTE)



### *CTE Offers Academic Courses and Programs that Provide:*

- Rigorous training in today's most high-demand and high-growth career fields.
- Challenging curriculum integrated with core subjects, including English, math, and science.
- Hands-on activities based on real-world applications.
- Opportunities to complete graduation requirements and get a jumpstart on post-secondary goals.

### *CTE Prepares Students to Achieve Post-Secondary Goals:*

#### **Earn College Credit**

- **Technical Dual Credit**

Students enrolled in a technical dual credit CTE program have the opportunity to earn both high school and college credit upon successful completion of the program. Students must meet college requirements specific to the program they are interested in prior to enrolling in the technical dual credit CTE program. Speak with your counselor for additional information pertaining to technical dual credit CTE programs.

#### **Specialized Dual Credit Programs**

- **STEM/PTECH Academy (Science, Technology, Engineering, and Math)**

The STEM/PTECH Academy, a small learning community within the STEAM Academy, is an innovative model that allows students to earn a high school diploma, a STEM endorsement, and 24-30 college credits at no cost to students. The STEM/PTECH Academy curriculum, which includes problem-based learning (PBL) in the core and STEM elective classes, provides challenging hands-on learning experiences that encourage creativity, critical thinking, and problem solving. AVID supports STEM students with their rigorous high school and college coursework and their Biomedical Science, Cybersecurity, Engineering, and Computer Science programs of study. Specialized courses provide learning about biomedical field, robotics, computer programming, engineering, network systems, and creating applications (apps) for mobile devices. Students benefit from advanced academic and Career and Technical Education (CTE) courses, as well as career exploration and partnerships with college and businesses. College coursework is personalized to meet each student's career goals, and college credit can be earned through a variety of options, including Advanced Placement exams. In STEM capstone classes, students apply their skills and knowledge in real-world learning environments, such as internships and job shadowing.

- **KNIT (King Nurses in Training)**

The MED Academy includes the KNIT (King Nurses in Training) Community, a small learning cohort designed to implement innovative practices that prepare students to successfully complete a field of study (FOS) that leads to a high wage, high demand career as a registered nurse. Sheldon ISD harnesses the collective power of higher education and industry partnerships to provide KNIT to students with access to state-of-the-art nursing simulators, professionally trained mentors, and a high school elective class that embeds academic support during the school day for 30-34 hours of college credit. Through the advanced curriculum and clinical experiences, the KNIT program of study prepares students to apply their knowledge and marketable skills to real-world nursing activities. Also embedded in the curriculum are the skills needed to achieve college readiness benchmarks on the Texas Success Initiative Assessment (TSIA) and a score of 850 or higher on the HESI Admission Assessment Exam (HESI A2), an entrance exam for nursing schools, which are highly competitive. Students in the KNIT program must be committed to maintaining a college GPA of 3.5 and completing the field of study college courses by their senior year in high school. The Nursing Science program of study will serve 20 students per cohort via application process.

### ***Gain Career and Workforce Readiness Skills and Knowledge***

- Understand basic expectations of the workplace,
- Learn technical skills and knowledge required in today's careers through hands-on experiences,
- Job preparation,
- Earn industry certifications and licenses, and
- Build a strong resume and interviewing skills.

### ***Programs of Study***

A program of study (POS) is a sequence of CTE courses focused on one of the state's major industry sectors, or "career clusters." CTE programs of study offer students hands-on learning in their field of interest with the opportunity to earn industry certifications or dual credit hours that fulfill graduation requirements. In addition, they prepare students for post-secondary options such as employment, apprenticeships and college degrees.

Students should review the programs of study and course descriptions before creating or revising a personal graduation plan (PGP). Programs of study may vary somewhat from the plans set forth in this section due to individual student interests, course offerings, changes in state and local requirements, facility limitations, or staffing limitations, etc. You can find in-depth career information at the sites below.

College for All Texans	<a href="http://www.collegeforalltexans.com/">http://www.collegeforalltexans.com/</a>
Reality Check	<a href="https://texasrealitycheck.com/">https://texasrealitycheck.com/</a>
Workforce Solutions Career Exploration	<a href="https://wrksolutions.com/for-individuals/career-exploration">https://wrksolutions.com/for-individuals/career-exploration</a>
Career One Stop	<a href="https://www.careeronestop.org/GetMyFuture/">https://www.careeronestop.org/GetMyFuture/</a>
Big Future	<a href="https://bigfuture.collegeboard.org/">https://bigfuture.collegeboard.org/</a>

### ***What are Career Clusters?***

Career clusters help to ensure that learners are provided with the knowledge and skills needed for multiple career choices by matching what is taught in the classroom to business, industry, and post-secondary and higher education expectations. The 14 Texas Education Agency (TEA) Career Clusters include:

- |  |   |
|--|---|
| • Agriculture, Food, and Natural Resources | • Health Science                              |
| • Architecture and Construction            | • Hospitality and Tourism                     |
| • Arts, A/V Technology and Communications  | • Human Services                              |
| • Business, Marketing, and Finance         | • Information Technology                      |
| • Education and Training                   | • Law and Public Service                      |
| • Energy                                   | • Manufacturing                               |
| • Engineering                              | • Transportation, Distribution, and Logistics |

### ***How Do Students Earn an Endorsement Through a Program of Study?***

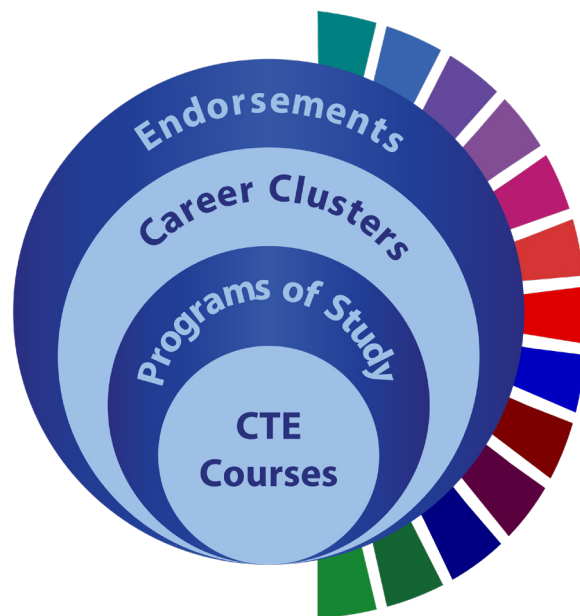
Under House Bill 5 (HB5) and the Foundation High School Program (FHSP), students must select at least one of the following endorsements:

- Arts & Humanities
- Business & Industry
- Public Services
- Science, Technology, Engineering, and Mathematics (STEM)
- Multidisciplinary Studies

To earn an endorsement, students must complete: 1) curriculum requirements for the FHSP, 2) an additional advanced math and advanced science credit, and 3) a program of study (i.e., coherent sequence), which qualifies for the intended endorsement area.

### ***CTE Endorsement Programs of Study***

The programs of study listed on the following pages are options available to C. E. King High School students and should guide course decisions each year. While not comprehensive of all district programs and classes, they are a good cross-section of focused areas of study. Every semester there are also dual credit classes available at San Jacinto Community College. Additional details on these classes can be found by contacting your counselor.





## Agriculture, Food, and Natural Resources Business & Industry Endorsement

The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It also includes non-traditional agricultural occupations like wind energy, solar energy, and oil and gas production.



## ANIMAL SCIENCE



The Animal Science program of study focuses on the science, research, and business of animals and other living organisms. It teaches students how to apply biology and life science to real-world life processes of animals and wildlife, either in laboratories or in the field, which could include a veterinary office, a farm or ranch, or any outdoor area harboring animal life. Students may also research and analyze the growth and destruction of species and research or diagnose diseases and injuries of animals.



### Courses

#### Vet Med Pathway

#### Non-Vet Med Pathway



Principles of Agriculture, Food, and Natural Resources



Small Animal Management  
Equine Science  
Wildlife, Fisheries, and Ecology Management (Optional)



Livestock Production



Advanced Animal Science  
Veterinary Medical Applications  
Practicum in Agriculture, Food, and Natural Resources

Advanced Animal Science  
Mathematical Applications in Agriculture, Food, and Natural Resources  
Practicum in Agriculture, Food, and Natural Resources

### Postsecondary Opportunities

#### Associates Degrees

- Food Science and Technology
- Veterinary Studies
- Biotechnology Laboratory Technician
- Biology Technician

#### Bachelor's Degrees

- Animal Sciences
- Agriculture
- Biology
- Zoology/ Animal Biology

#### Master's, Doctoral, and Professional Degrees

- Genetics
- Veterinary Medicine
- Biological and Physical Sciences
- Biological and Biomedical Sciences

### Industry-Based Certifications

- Certified Veterinary Assistant, Level 1
- Elanco Veterinary Medical Applications Certification OR
- Elanco Fundamentals of Animal Science Certification

### Work-Based Learning and Expanded Learning Opportunities

#### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

**Exploration Activities:**  
Sheldon FFA

**Work Based Learning Activities:**

Compete in an Agri-Science Fair 4H  
Volunteer at a local farm or with a veterinarian  
Participate in an FFA supervised agriculture experience

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Animal Breeders	\$39,139	28	9%
Animal Scientists	\$57,533	22	12%
Medical Scientists	\$63,898	435	27%
Veterinarians	\$93,496	294	24%
Zoologists and Wildlife Biologists	\$67,309	45	32%

Successful completion of this program of study will fulfill requirements of the Business and Industry Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Animal Science Course Information

### Level 1

#### Principles of Agriculture, Food & Natural Resources

13000200

Grade: 9-10

Credit: 1

Principles of Agriculture, Food, and Natural Resources will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. To prepare for success, students need opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.

### Level 2

#### Small Animal Management

13000400

Grade: 10-12

Credit: 0.5

In Small Animal Management, students will acquire knowledge and skills related to small animals and the small animal management industry. Small Animal Management may address topics related to small mammals such as dogs and cats, amphibians, reptiles, and birds. To prepare for careers in the field of animal science, students must 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.

#### Equine Science

13000500

Grade: 10-12

Credit: 0.5

In Equine Science, students will acquire knowledge and skills related to equine animal systems and the equine industry. Equine Science may address topics related to horses, donkeys, and mules. To prepare for careers in the field of animal science, students must 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.

#### Wildlife, Fisheries, and Ecology Management (Optional)

13001500

Grade: 9-12

Credit: 1

Wildlife, Fisheries, and Ecology Management examines the management of game and non-game wildlife species, fish, and aquacrops 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.

### Level 3

#### Livestock Production

13000300

Grade: 10-12

Credit: 1

In Livestock Production, students will acquire knowledge and skills related to livestock and the livestock production industry. Livestock Production may address topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

#### Mathematical Applications in Agriculture, Food, and Natural Resources (Satisfies a math credit)

13001000

Grade: 11-12

Credit: 1

*Prerequisite: Algebra I*

*Recommended Prerequisite: one credit in Agriculture, Food, and Natural Resources*

In Mathematical Applications in Agriculture, Food, and Natural Resources, students will apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources. To prepare for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. To prepare for success, students need opportunities to reinforce, apply, and transfer their knowledge and skills related to mathematics in a variety of contexts.



## Animal Science Course Information

Level 4

### Advanced Animal Science (Satisfies a science credit)

13000700

**Grade: 11-12**

**Credit: 1**

*Prerequisite: Biology and Chemistry or IPC; Algebra I and Geometry; Small Animal Science or Equine Science or Livestock Production*

Advanced Animal Science 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. To prepare for careers in the field of animal science, students must 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.

Industry Based Certification Offered: Elanco Fundamentals of Animal Science Certification

### Veterinary Medical Applications

13000600

**Grade: 11-12**

**Credit: 1**

*Prerequisite: Small Animal Management or Equine Science or Livestock Production*

Veterinary Medical Applications covers topics relating to veterinary practices, including practices for large and small animal species. To prepare for careers in the field of animal science, students must 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.

Industry Based Certification Offered: Elanco Veterinary Medical Applications Certification

### Practicum in Agriculture, Food, and Natural Resources

13002500

**Grade: 12**

**Credit: 2**

*Prerequisite: 1 credit in an Agriculture, Food and Natural Resources course*

Practicum in Agriculture, Food, and Natural Resources is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. To prepare for careers in agriculture, food and natural resources, students must attain academic skills and knowledge, acquire technical knowledge and skills related to the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Industry Based Certification Offered: Certified Veterinary Assistant, Level 1



## Agriculture, Food, and Natural Resources Business & Industry Endorsement

The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It also includes non-traditional agricultural occupations like wind energy, solar energy, and oil and gas production.



### APPLIED AGRICULTURAL ENGINEERING

Limited Seating



The Applied Agricultural Engineering program of study explores the occupations and educational opportunities associated with applying knowledge of engineering technology and biological science to agricultural problems concerned with power and machinery, electrification, structures, soil and water conservation, and processing agricultural products. This program of study may also include exploration into diagnosing, repairing, or overhauling farm machinery and vehicles, such as tractors, harvesters, dairy equipment, and irrigation systems.



### Courses



Principles of Agriculture, Food, and Natural Resources



Agricultural Mechanics and Metal Technologies



Agricultural Structures Design and Fabrications



Agricultural Equipment Design and Fabrication  
Practicum in Agriculture, Food, and Natural Resources

### Postsecondary Opportunities

#### Associates Degrees

- Heavy Equipment Maintenance Technology/Technician
- Agricultural Mechanization, General
- Small Engine Mechanics and Repair Technology/Technician
- Welding Technology/Welder

#### Bachelor's Degrees

- Agricultural Engineering
- Agricultural Mechanization, General

#### Master's, Doctoral, and Professional Degrees

- Agricultural Engineering
- Agricultural Mechanization, General

### Industry-Based Certifications

- NCCER Core
- AWS D1.1 Structural Steel

### Work-Based Learning and Expanded Learning Opportunities

#### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

##### Exploration Activities:

Sheldon FFA

##### Work Based Learning Activities:

Earn industry certification  
Intern at a farm products or  
machinery plant  
Participate in an FFA supervised  
agriculture experience

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Outdoor Power Equipment and Other Small Engine Mechanics	\$32,406	366	16%
Welders	\$41,350	6,171	9%
Farm Equipment Mechanics and Service Technicians	\$39,915	304	17%
Mobile Heavy Equipment Mechanics	\$47,299	1,627	16%
Agricultural Engineers	\$64,792	9	13%

Successful completion of this program of study will fulfill requirements of the Business and Industry Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Applied Agricultural Engineering

### Course Information

#### Level 1

##### Principles of Agriculture, Food & Natural Resources

13000200

**Grade: 9-10**

**Credit: 1**

Principles of Agriculture, Food, and Natural Resources will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. To prepare for success, students need opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.

#### Level 2

##### Agricultural Mechanics and Metal Technologies

13002200

**Grade: 10-12**

**Credit: 1**

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

#### Level 3

##### Agricultural Structures Design and Fabrication

13002300

**Grade: 11-12**

**Credit: 1**

*Prerequisite: Agricultural Mechanics and Metal Technologies*

In Agricultural Structures Design and Fabrication, students will explore career opportunities, entry requirements, and industry expectations. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings.

Industry Based Certification Offered: NCCER Core

#### Level 4

##### Agricultural Equipment Design and Fabrication

13002350

**Grade: 11-12**

**Credit: 1**

*Prerequisite: Agricultural Structures Design and Fabrication*

In Agricultural Equipment Design and Fabrication, students will acquire knowledge and skills related to the design and fabrication of agricultural equipment. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural equipment design and fabrication. To prepare for success, students reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings.

Industry Based Certification Offered: AWS D1.1 Structural Steel

##### Practicum in Agriculture, Food, and Natural Resources

13002500

**Grade: 12**

**Credit: 2**

*Prerequisite: 1 credit in an Agriculture, Food and Natural Resources course*

Practicum in Agriculture, Food, and Natural Resources is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. To prepare for careers in agriculture, food and natural resources, students must attain academic skills and knowledge, acquire technical knowledge and skills related to the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.



## Agriculture, Food, and Natural Resources Business & Industry Endorsement

The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It also includes non-traditional agricultural occupations like wind energy, solar energy, and oil and gas production.



## PLANT SCIENCE



The Plant Science program of study focuses on the science, research, and business of plants and other living organisms. It teaches students how to apply biology and life science to real-world life processes of plants and vegetation, either in laboratories or in the field.



### Courses



Principles of Agriculture, Food, and Natural Resources



Greenhouse Operation and Production



Floral Design  
Horticultural Science



Advanced Plant and Soil Science  
Advanced Floral Design

### Postsecondary Opportunities

#### Associates Degrees

- Applied Horticulture/Horticulture Operations, General
- Ornamental Horticulture
- Agricultural Business and Management, General
- Turf and Turfgrass Management

#### Bachelor's Degrees

- Applied Horticulture/ Horticulture Operations, General
- Agronomy and Crop Science
- Agricultural Business and Management, General
- Turf and Turfgrass Management

#### Master's, Doctoral, and Professional Degrees

- Applied Horticulture/ Horticulture Operations, General
- Agronomy and Crop Science
- Agricultural Business and Management, General
- Farm/Farm and Ranch Management

### Industry-Based Certifications

- Texas State Florist's Association Knowledge Based Floral Certification
- Texas State Florist's Association Level I Floral Certification

### Work-Based Learning and Expanded Learning Opportunities

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
<b>Exploration Activities:</b> Sheldon FFA	<b>Work Based Learning Activities:</b> Work at a florist or landscaping business Participate in an FFA supervised agriculture experience

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Soil and Plant Scientist	\$54,662	116	21%
Tree Trimmers and Pruners	\$32,240	589	14%
Pesticide Handlers, Sprayers, and Applicators	\$36,733	196	22%
Landscaping Supervisors	\$44,408	807	19%
Biological Technicians	\$42,931	452	17%

Successful completion of this program of study will fulfill requirements of the Business and Industry Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Plant Science Course Information

### Level 1

#### Principles of Agriculture, Food & Natural Resources

13000200

Grade: 9-10

Credit: 1

Principles of Agriculture, Food, and Natural Resources will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. To prepare for success, students need opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.

### Level 2

#### Greenhouse Operation and Production

13002050

Grade: 10-12

Credit: 1

Greenhouse Operation and Production is designed to develop an understanding of greenhouse production techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

### Level 3

#### Horticultural Science

13002000

Grade: 10-12

Credit: 1

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

#### Floral Design (Satisfies a fine arts credit)

13001800

Grade: 11-12

Credit: 1

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

Industry Based Certification Offered: Texas State Florist's Association Knowledge Based Floral Certification



## Plant Science

### Course Information

#### Level 4

#### Advanced Plant & Soil Science (Satisfies a science credit)

13002100

**Grade: 12**

**Credit: 1**

*Recommended Prerequisite: Biology, IPC, Chemistry, or Physics; 1 credit in an Agriculture, Food and Natural Resources course*

Advanced Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. To prepare for careers in plant and soil science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to plant and soil science and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

#### Advanced Floral Design

N1300270

**Grade: 12**

**Credit: 1**

*Prerequisite: Floral Design*

In Advanced Floral Design, students gain advanced knowledge and skills specifically needed to enter the workforce as floral designers or as freelance floral event designers, with an emphasis on specialty designs and occasion-specific designs and planning. Students are also prepared to enter postsecondary certification or degree programs in floral design or special events design. Students build on the knowledge base from Principles and Elements of Floral Design and are introduced to more advanced floral design concepts. In addition, students gain knowledge of the design elements and planning techniques used to produce unique specialty floral designs that support the goals and objectives of an occasion or event.

Industry Based Certification Offered: Texas State Florist's Association Level I Floral Certification



## Architecture and Construction Business & Industry Endorsement

The Architecture and Construction Career Cluster focuses on designing, planning, managing, building, and maintaining the built environment. Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management.



## ARCHITECTURAL DESIGN



The Architectural Design program of study explores the occupations and educational opportunities associated with developing, engineering, and designing building structures and facilities. This program of study may also include exploration into collecting and interpreting geographic information, researching and preparing maps, and interior design.



### Courses



Principles of Architecture



Architectural Design I



Architectural Design II



Practicum in Architectural Design  
OR  
Career Preparation I

### Postsecondary Opportunities

#### Associates Degrees

- Architecture
- Interior Design
- Civil Engineering, General
- Geographic Information Science and Cartography

#### Bachelor's Degrees

- Architecture
- Interior Design
- Civil Engineering, General
- Geographic Information Science and Cartography

#### Master's, Doctoral, and Professional Degrees

- Architecture
- Interior Design
- Civil Engineering, General
- Geographic Information Science and Cartography

### Industry-Based Certifications

- Autodesk Associate (Certified User) AutoCAD
- Autodesk Associate (Certified User) Revit Architecture

### Work-Based Learning and Expanded Learning Opportunities

#### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

##### Exploration Activities:

SkillsUSA  
Shadow an architect, interior  
designer, or civil engineer

##### Work Based Learning Activities:

Tour an architecture firm  
Earn industry certification

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Architects	\$77,043	808	16%
Geographic Information Analysts and Surveyors	\$58,926	162	27%
Architectural/Civil Drafters	\$50,170	1,068	9%
Construction Managers	\$87,402	2,401	14%

Successful completion of this program of study will fulfill requirements of the Business and Industry Endorsement.  
Approved Statewide Program of Study: C. E. King High School – 2023-24



## Architectural Design

### Course Information

#### Level 1

##### Principles of Architecture

13004210

**Grade: 9-10**

**Credit: 1**

Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, education, and career information to set and achieve realistic career and educational goals. Job-specific training can be provided through training modules that identify career goals in trade and industry areas. Classroom studies include topics such as safety, work ethics, communication, information technology applications, systems, health, environment, leadership, teamwork, ethical and legal responsibility, employability, and career development and include skills such as problem solving, critical thinking, and reading technical drawings.

#### Level 2

##### Architectural Design I

13004600

**Grade: 10-12**

**Credit: 1**

*Prerequisite: Algebra I AND English I*

*Recommended Prerequisite: Principles of Architecture*

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

#### Level 3

##### Architectural Design II

13004700

**Grade: 11-12**

**Credit: 2**

*Prerequisite: Architectural Design I AND Geometry*

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

Industry Based Certification Offered: Autodesk Associate (Certified User) AutoCAD

#### Level 4

##### Practicum in Architectural Design

13004800

**Grade: 12**

**Credit: 2**

*Prerequisite: 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.

Industry Based Certification Offered: Autodesk Associate (Certified User) Revit Architecture



## Architecture and Construction Business & Industry Endorsement

The Architecture and Construction Career Cluster focuses on designing, planning, managing, building, and maintaining the built environment. Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management.



## ELECTRICAL (Dual Credit)



The Electrical program of study explores the occupations and educational opportunities associated with installing, maintaining, and repairing electrical wiring, equipment, and fixtures. This program of study may also include exploration into installing and repairing telecommunications cable including fiber optics.



### Courses



Principles of Architecture



Architectural Design I



Electrical Technology I @ San Jacinto College  
Electrical Technology II @ San Jacinto College



Practicum in Construction Technology (1<sup>st</sup> time taken)  
@ San Jacinto College  
Practicum in Construction Technology (2<sup>nd</sup> time taken)  
@ San Jacinto College

### Postsecondary Opportunities

#### Associates Degrees

- Electrician
- Communications Systems Installation and Repair Technology

#### Bachelor's Degrees

- Construction Science

#### Master's, Doctoral, and Professional Degrees

- Construction Management

### Industry-Based Certifications

- NCCER Electrical Level I

### Work-Based Learning and Expanded Learning Opportunities

#### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

##### Exploration Activities:

SkillsUSA  
Job shadow an electrician or  
fiber optics line installer

##### Work Based Learning Activities:

Intern or shadow an electrician  
Earn industry certification

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Electrical Linemen	\$54,184	1,314	28%
Electricians	\$44,013	8,460	21%
Electrical and Electronics Installers	\$37,544	245	19%
Security and Fire Alarm Installers	\$43,638	1,112	22%
Telecommunication Line Installers and Repairers	\$49,150	1,228	10%

Successful completion of this program of study will fulfill requirements of the Business and Industry Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Electrical Course Information

### Level 1

#### Principles of Architecture

13004210

**Grade: 9-10**

**Credit: 1**

Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, education, and career information to set and achieve realistic career and educational goals. Job-specific training can be provided through training modules that identify career goals in trade and industry areas. Classroom studies include topics such as safety, work ethics, communication, information technology applications, systems, health, environment, leadership, teamwork, ethical and legal responsibility, employability, and career development and include skills such as problem solving, critical thinking, and reading technical drawings.

### Level 2

#### Architectural Design I

13004600

**Grade: 10-12**

**Credit: 1**

*Prerequisite: Algebra I AND English I*

*Recommended Prerequisite: Principles of Architecture*

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

#### Electrical Technology I @ San Jacinto College

13005600

**Grade: 11-12**

**Credit: 1**

*Prerequisite: Meet the San Jacinto College entrance requirements*

In Electrical Technology I, students will gain knowledge and skills needed to enter the workforce as an electrician or building maintenance supervisor, prepare for a postsecondary degree in a specified field of construction or construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, and the reading of electrical drawings, schematics, and specifications.

### Level 3

#### Electrical Technology II @ San Jacinto College

13005700

**Grade: 11-12**

**Credit: 2**

*Prerequisite: Electrical Technology I*

In Electrical Technology II, students will gain advanced knowledge and skills needed to enter the workforce as an electrician, a building maintenance technician, or a supervisor; prepare for a postsecondary degree in a specified field of construction or construction management; or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, alternating current and direct current motors, conductor installation, installation of electrical services, and electric lighting installation.

### Level 4

#### Practicum in Construction Technology – 1<sup>st</sup> Time Taken @ San Jacinto College

13005250

**Grade: 12**

**Credit: 2**

*Prerequisite: Electrical Technology II OR Pipefitting Technology II*

In Practicum in Construction Technology, students will be challenged with the application of knowledge and skills gained in previous construction-related coursework. In many cases students will be involved in projects the school has approved for this class.

#### Practicum in Construction Technology – 2<sup>nd</sup> Time Taken @ San Jacinto College

13005260

**Grade: 12**

**Credit: 2**

*Prerequisite: Practicum in Construction Technology – 1<sup>st</sup> Time Taken*

In Practicum in Construction Technology, students will be challenged with the application of knowledge and skills gained in previous construction-related coursework. In many cases students will be involved in projects the school has approved for this class.



## Architecture and Construction Business & Industry Endorsement

The Architecture and Construction Career Cluster focuses on designing, planning, managing, building, and maintaining the built environment. Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management.



The Plumbing and Pipefitting program of study explores the occupations and educational opportunities related to assembling, installing, or repairing pipes, fittings, or fixtures of heating, water, or drainage systems. This program of study may also include exploration into maintaining pipe supports or related hydraulic or pneumatic equipment for steam, hot water, heating, cooling, lubricating, sprinkling, or industrial production or processing systems.



### Courses



Introduction to Welding



Welding I



Welding II @ San Jacinto College



Pipefitting Technology I @ San Jacinto College  
Pipefitting Technology II @ San Jacinto College  
Practicum in Construction Technology @ San Jacinto College

\* This Program of Study will follow the Welding and Pipefitting programs.

### Postsecondary Opportunities

#### Associates Degrees

- Electrician
- Communications Systems Installation and Repair Technology

#### Bachelor's Degrees

- Construction Science

#### Master's, Doctoral, and Professional Degrees

- Construction Management

### Industry-Based Certifications

- NCCER Electrical Level I

### Work-Based Learning and Expanded Learning Opportunities

#### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

##### Exploration Activities:

SkillsUSA  
Job shadow a plumber, pipefitter,  
or steamfitter

##### Work Based Learning Activities:

Earn industry certification

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Mechanics, Installers, and Repairers	\$63,710	4,243	17%
Plumbers, Pipefitters and Steamfitters	\$44,928	5,765	23%
Helpers – Pipelayers, Plumbers, Pipefitters, and Steamfitters	\$30,098	1,567	18%
Pipe Installers	\$31,616	800	21%

Successful completion of this program of study will fulfill requirements of the Business and Industry Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Plumbing & Pipefitting Course Information

### Level 1

#### Introduction to Welding

13032250

**Grade:** 9-12

**Credit:** 1

Introduction to Welding will provide an introduction to welding technology with an emphasis on basic welding laboratory principles and operating procedures. Students will be introduced to the three basic welding processes. Topics include: industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and introduction to welding codes and standards. Introduction to Welding will provide students with the knowledge, skills, and technologies required for employment in welding industries. Students will develop knowledge and skills related to welding and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills will prepare students for future success.

### Level 2

#### Welding I

13032300

**Grade:** 10-12

**Credit:** 2

*Recommended Prerequisite:* Introduction to Welding

Welding I provides the knowledge, skills, and technologies required for employment in metal technology systems. Students will develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.

#### Pipefitting Technology I @ San Jacinto College

N1300425

**Grade:** 12

**Credit:** 1

*Prerequisite:* Welding II

Students will learn the types of work performed, responsibilities and career opportunities within the industry, and safety principles associated with pipefitting.

### Level 3

#### Welding II @ San Jacinto College

13032400

**Grade:** 11-12

**Credit:** 2

*Prerequisite:* Welding I

Welding II builds on the knowledge and skills developed in Welding I. Students will develop advanced welding concepts and skills as related to personal and career development. Students will integrate academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

#### Pipefitting Technology II @ San Jacinto College

N1300426

**Grade:** 12

**Credit:** 1

*Prerequisite:* Pipefitting Technology I

Students will learn about, identify, and install various types of piping systems and valves. Students will be able to read detail and drawing sheets and use mathematics to solve problems related to pipefitting construction.

### Level 4

#### Practicum in Construction Technology @ San Jacinto College

13005250

**Grade:** 12

**Credit:** 2

*Prerequisite:* Electrical Technology II OR Pipefitting Technology II

In Practicum in Construction Technology, students will be challenged with the application of knowledge and skills gained in previous construction-related coursework. In many cases students will be involved in projects the school has approved for this class.

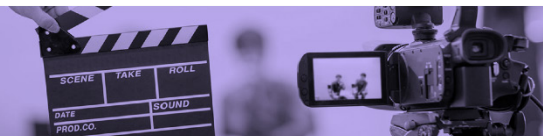


## Arts, A/V Technology and Communications Business & Industry Endorsement

The Arts, A/V Technology and Communications (AAVTC) 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. Careers in the AAVTC career cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication.



## DIGITAL COMMUNICATIONS



The Digital Communications program of study explores the occupations and educational opportunities associated with the production of audio and visual media formats for various purposes, such as TV broadcasts, advertising, video production, or motion pictures. This program of study may also include exploration into operating machines and equipment to record sound and images, such as microphones, sound speakers, video screens, projectors, video monitors, sound and mixing boards, and related electronic equipment.



### Courses



Principles of Arts, A/V Technology, and Communications  
Professional Communications  
Web Communications



Audio/Video Production I  
Digital Design and Media Productions (Optional)



Audio/Video Production II/Lab



Practicum of Audio/Video Production  
OR  
Career Preparation I

### Postsecondary Opportunities

#### Associates Degrees

- Recording Arts Technology/Technician
- Cinematography and Film/Video Production
- Radio and Television Broadcasting Technology/Technician
- Music Technology

#### Bachelor's Degrees

- Recording Arts Technology/Technician
- Cinematography and Film/Video Production
- Radio and Television
- Agricultural Communication/Journalism

#### Master's, Doctoral, and Professional Degrees

- Communications Technology/Technician
- Cinematography and Film/Video Production
- Radio and Television
- Agricultural Communication/Journalism

### Industry-Based Certifications

- Adobe Certified Professional in Digital Video using Adobe Premiere Pro
- Adobe Certified Professional in Visual Design Using Adobe Photoshop

### Work-Based Learning and Expanded Learning Opportunities

#### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

##### Exploration Activities:

SkillsUSA  
Job shadow a production team

##### Work Based Learning Activities:

Earn industry certification  
Work on industry projects

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Sound Engineering Technicians	\$39,562	79	27%
Camera Operators, Television, Video and Motion Picture	\$50,024	129	9%
Audio and Video Equipment Technicians	\$40,581	757	29%
Film and Video Editors	\$47,382	118	23%

Successful completion of this program of study will fulfill requirements of the Business and Industry Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Digital Communication

### Course Information

#### Level 1

##### Principles of Arts, Audio/Video Technology, and Communications

13008200

**Grade: 9**

**Credit: 1**

Introduction to careers in the Arts, Audio/Video Technology, and Communications career cluster. These careers require a 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.

##### Professional Communications

13009900

**Grade: 9-12**

**Credit: 0.5**

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 context, 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.

##### Web Communications

03580810

**Grade: 9-12**

**Credit: 0.5**

In Web Communications, students will acquire knowledge of web communications and technological operations and concepts. This is an exploratory course in web communications. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.

#### Level 2

##### Audio/Video Production I

13008500

**Grade: 10-12**

**Credit: 1**

*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 preproduction, production, and post-production audio and video products.

##### Digital Design and Media Productions (Optional)

03580400

**Grade: 10-12**

**Credit: 1**

Digital Design and Media Production will allow students to demonstrate creative thinking, develop innovative strategies, and use communication tools in order to work effectively with others as well as independently. Students will gather information electronically, which will allow for problem solving and making informed decisions regarding media projects. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will demonstrate a thorough understanding of digital design principles that is transferable to other disciplines. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.



## Digital Communication Course Information

### Level 3

#### Audio/Video Production II with Lab

13008610

**Grade: 11-12**

**Credit: 2**

*Prerequisite: Audio/Video Production I*

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Building upon the concepts taught in Audio/Video Production, 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 products. Through diverse forms of storytelling and production, students will exercise and develop creativity, intellectual curiosity, and critical-thinking, problem-solving, and collaborative skills. This course may be implemented in an audio format or a format with both audio and video.

Industry Based Certification: Adobe Certified Professional in Digital Video using Adobe Premiere Pro

### Level 4

#### Practicum in Audio/Video Production

13008700

**Grade: 12**

**Credit: 2**

*Prerequisite: Audio/Video Production II with Lab*

Building upon the concepts taught in Audio/Video Production II and its co-requisite Audio/Video Production II Lab, in addition to developing advanced technical knowledge and skills need for success in the Arts, Audio/Video Technology & Communications Career Cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying preproduction, production, and post-production audio and video products in a professional environment. This course may be implemented in an advanced audio/video or audio format. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

Industry Based Certification: Adobe Certified Professional in Visual Design Using Adobe Photoshop

#### Career Preparation I

12701305

**Grade: 12**

**Credit: 3**

*Age Requirement: At least 16 years old*

This course is a work-based instructional arrangement in which students will develop essential knowledge and skills through classroom instruction and on-the-job training in an approved technical-specific area. Students will receive general employability skills as a group; however, each student will have an individual training plan that will address his/her job specific knowledge and skills. The training station must be approved by the instructor. Students will be given job specific training assignments in the classroom or participate in job shadowing or an internship. This course must be a part of the student's coherent sequence of CTE courses. The recommended prerequisite is two semesters of technical training prior to or during this course of study from any CTE pathway. Students must provide their own transportation and a copy of their social security card upon employment. An application and an interview are required before enrollment in the course. Genesys Works is a paid internship with a Fortune 500 company available to seniors who meet specific criteria.

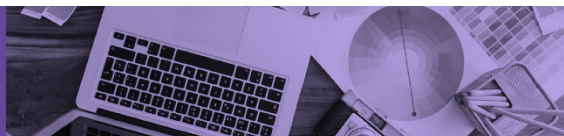


## Arts, A/V Technology and Communications Business & Industry Endorsement

The Arts, A/V Technology and Communications (AAVTC) 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. Careers in the AAVTC career cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication.



## GRAPHIC DESIGN & MULTIMEDIA ARTS



The Graphic Design and Multimedia Arts program of study explores the occupations and educational opportunities associated with designing or creating graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. This program of study may also include exploration into designing clothing and accessories, and creating special effects, animation, or other visual images using film, video, computers, or other electronic tools and media, for use in computer games, movies, music videos, and commercials.



### Courses



Principles of Arts, A/V Technology, and Communications  
Professional Communications (Optional)  
Web Communications (Optional)



Graphic Design and Illustration I  
Digital Design and Media Productions



Graphic Design and Illustration II/Lab



Practicum in Graphic Design and Illustration  
OR  
Career Preparation I

### Postsecondary Opportunities

#### Associates Degrees

- Animation, Interactive Technology, Video Graphics and Special Effects
- Graphic Design
- Game and Interactive Media Design

#### Bachelor's Degrees

- Animation, Interactive Technology, Video Graphics and Special Effects
- Graphic Design
- Game and Interactive Media Design

#### Master's, Doctoral, and Professional Degrees

- Animation, Interactive Technology, Video Graphics and Special Effects
- Graphic Design
- Intermedia/Multimedia

### Industry-Based Certifications

- Adobe Certified Professional in Graphic Design and Illustration Using Adobe Illustrator
- Adobe Certified Professional in Visual Design Using Adobe Photoshop

### Work-Based Learning and Expanded Learning Opportunities

#### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

**Exploration Activities:**  
SkillsUSA

**Work Based Learning Activities:**  
Earn industry certification  
Work on industry projects

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Graphic Designers	\$44,824	1,433	15%
Multimedia Artists and Animators	\$67,392	186	21%

Successful completion of this program of study will fulfill requirements of the Business and Industry Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Graphic Design & Multimedia Arts

### Course Information

#### Level 1

##### Principles of Arts, Audio/Video Technology, and Communications

13008200

**Grade: 9**

**Credit: 1**

Introduction to careers in the Arts, Audio/Video Technology, and Communications career cluster. These careers require a 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.

##### Professional Communications (Optional)

13009900

**Grade: 9-12**

**Credit: 0.5**

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 context, 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.

##### Web Communications (Optional)

03580810

**Grade: 9-12**

**Credit: 0.5**

In Web Communications, students will acquire knowledge of web communications and technological operations and concepts. This is an exploratory course in web communications. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.

#### Level 2

##### Graphic Design and Illustration I

13008800

**Grade: 10-12**

**Credit: 1**

*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.

##### Digital Design and Media Productions

03580400

**Grade: 10-12**

**Credit: 1**

Digital Design and Media Production will allow students to demonstrate creative thinking, develop innovative strategies, and use communication tools in order to work effectively with others as well as independently. Students will gather information electronically, which will allow for problem solving and making informed decisions regarding media projects. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will demonstrate a thorough understanding of digital design principles that is transferable to other disciplines. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.

#### Level 3

##### Graphic Design and Illustration II with Lab

13008910

**Grade: 11-12**

**Credit: 2**

*Prerequisite: Graphic Design & Illustration I*

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. 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 mastery of content knowledge and skills.

Industry Based Certification: Adobe Certified Professional in Graphic Design and Illustration Using Adobe Illustrator



## Graphic Design & Multimedia Arts

### Course Information

Level 4

#### Practicum in Graphic Design and Illustration

13009000

**Grade: 12**

**Credit: 2**

*Prerequisite: Graphic Design & Illustration II with Lab*

In addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, student 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.

Industry Based Certification: Adobe Certified Professional in Visual Design Using Adobe Photoshop

#### Career Preparation I

12701305

**Grade: 12**

**Credit: 3**

*Age Requirement: At least 16 years old*

This course is a work-based instructional arrangement in which students will develop essential knowledge and skills through classroom instruction and on-the-job training in an approved technical-specific area. Students will receive general employability skills as a group; however, each student will have an individual training plan that will address his/her job specific knowledge and skills. The training station must be approved by the instructor. Students will be given job specific training assignments in the classroom or participate in job shadowing or an internship. This course must be a part of the student's coherent sequence of CTE courses. The recommended prerequisite is two semesters of technical training prior to or during this course of study from any CTE pathway. Students must provide their own transportation and a copy of their social security card upon employment. An application and an interview are required before enrollment in the course. Genesys Works is a paid internship with a Fortune 500 company available to seniors who meet specific criteria.



## Business, Marketing, and Finance Business & Industry Endorsement

The Business, Marketing, and Finance Career Cluster focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations.



## ACCOUNTING & FINANCIAL SERVICES



The Accounting and Financial Services program of study teaches CTE learners how to examine, analyze, and interpret financial records. Through this program of study, students will learn the skills necessary to perform financial services, prepare financial statements, interpret accounting records, give advice, or audit and evaluate statements prepared by others. This program of study will also introduce students to mathematical modeling tools.



### Courses



Principles of Business, Marketing, and Finance  
Business Information Management (BIM) I



Accounting I  
Banking and Financial Services  
Virtual Business (Optional)  
Business Law (Optional)



Accounting II  
Money Matters  
Business Management (Optional)



Statistics and Business Decision Making (Optional)  
Practicum in Business Management  
OR  
Career Preparation I

### Postsecondary Opportunities

#### Associates Degrees

- Real Estate
- Financial, General
- Financial Planning and Services
- Certified Income Specialist

#### Bachelor's Degrees

- Accounting
- Financial, General
- Financial Planning and Services
- Certified Income Specialist

#### Master's, Doctoral, and Professional Degrees

- Financial Accounting
- Business Administration
- Financial Planning

### Industry-Based Certifications

- Intuit QuickBooks Certified User
- Volunteer Income Tax Assistance/Tax Counseling Certification: Basic

### Work-Based Learning and Expanded Learning Opportunities

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
<b>Exploration Activities:</b> Future Business Leaders of America (FBLA)	<b>Work Based Learning Activities:</b> Earn industry certification Work on industry projects

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Accountants and Auditors	\$71,469	14,436	22%
Loan Officers	\$68,598	2,419	19%
Personal Financial Advisors	\$86,965	1,861	52%
Administrative Service Managers	\$96,138	2,277	21%
Insurance Underwriters	\$66,206	594	14%

Successful completion of this program of study will fulfill requirements of the Business and Industry Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Accounting & Financial Services

### Course Information

#### Level 1

##### Principles of Business, Marketing, and Finance

13011200

**Grade: 9-10**

**Credit: 1**

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the 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.

##### Business Information Management I

13011400

**Grade: 9-12**

**Credit: 1**

*Recommended Prerequisite: Touch Systems and Data Entry*

In 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 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.

##### Money Matters

13016200

**Grade: 10-12**

**Credit: 1**

*Recommended Prerequisite: Principles of Principles of Business, Marketing, and Finance*

In Money Matters, students will investigate money management from a personal financial perspective. Students will apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to establish short term and long-term financial goals. Students will examine various methods of achieving short-term and long-term financial goals through various methods such as investing, tax planning, asset allocating, risk management, retirement planning, and estate planning.

Industry Based Certification: Volunteer Income Tax Assistance/Tax Counseling Certification: Basic

#### Level 2

##### Accounting I

13016600

**Grade: 10-12**

**Credit: 1**

*Recommended Prerequisite: Principles of Principles of Business, Marketing, and Finance*

Accounting encompasses careers that record, classify, summarize, analyze, and communicate a business's financial information/business transactions for use in management decision making. Accounting includes such activities as bookkeeping, systems design, analysis, and interpretation of accounting information.

##### Banking and Financial Services

13016300

**Grade: 10-12**

**Credit: 0.5**

*Recommended Prerequisite: Principles of Principles of Business, Marketing, and Finance*

Banking services are primarily concerned with accepting deposits, lending funds, and extending credit. Banking services include cash management, short-term investments, mortgages and other loans, credit cards, and bill payment. Banking services are delivered via a number of different institutions, from commercial banks (the largest group) and other traditional means (savings and loans associations, credit unions, and local banks) to newer ventures through insurance companies, brokerage houses, and the Internet.

##### Business Law (Optional)

13011700

**Grade: 10-12**

**Credit: 1**

Business Law is designed for students to analyze various aspects of the legal environment, including ethics, the judicial system, contracts, personal property, sales, negotiable instruments, agency and employment, business organization, risk management, and real property.

##### Virtual Business (Optional)

13012000

**Grade: 10-12**

**Credit: 0.5**

Virtual Business is designed for students to start a virtual business by creating a web presence, conducting online and off-line marketing, examining contracts appropriate for an online business, and demonstrating project-management skills. Students will also demonstrate bookkeeping skills for a virtual business, maintain business records, and understand legal issues associated with a virtual business.



## Accounting & Financial Services

### Course Information

#### Level 3

##### Accounting II (Satisfies a math credit)

13016700

**Grade: 11-12**

**Credit: 1**

*Prerequisite: Accounting I*

Students continue to 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 various managerial and cost accounting activities. Students formulate and interpret financial information for use in management decision-making.

Industry Based Certification: Intuit QuickBooks Certified User

##### Business Management (Optional)

13012100

**Grade: 11-12**

**Credit: 1**

Business Management is designed to familiarize students with the concepts related to business management as well as the functions of management, including planning, organizing, staffing, leading, and controlling. Students will also demonstrate interpersonal and project-management skills.

#### Level 4

##### Statistics and Business Decision Making (Satisfies a math credit) (Optional)

13016900

**Grade: 12**

**Credit: 1**

*Prerequisite: Algebra II*

Statistics and Business Decision Making is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.

##### Practicum in Business Management

13012200

**Grade: 12**

**Credit: 2**

*Prerequisite: Business Information Management II OR Accounting II*

Practicum in Business Management 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

12701305

**Grade: 12**

**Credit: 3**

*Age Requirement: At least 16 years old*

This course is a work-based instructional arrangement in which students will develop essential knowledge and skills through classroom instruction and on-the-job training in an approved technical-specific area. Students will receive general employability skills as a group; however, each student will have an individual training plan that will address his/her job specific knowledge and skills. The training station must be approved by the instructor. Students will be given job specific training assignments in the classroom or participate in job shadowing or an internship. This course must be a part of the student's coherent sequence of CTE courses. The recommended prerequisite is two semesters of technical training prior to or during this course of study from any CTE pathway. Students must provide their own transportation and a copy of their social security card upon employment. An application and an interview are required before enrollment in the course. Genesys Works is a paid internship with a Fortune 500 company available to seniors who meet specific criteria.



## Business, Marketing, and Finance Business & Industry Endorsement

The Business, Marketing, and Finance Career Cluster focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations.



# BUSINESS MANAGEMENT



The Business Management program of study teaches CTE learners how to plan, direct, and coordinate the administrative services and operations of an organization. Through this program of study, students will learn the skills necessary to formulate policies, manage daily operations, and allocate the use of materials and human resources. This program of study will also introduce students to mathematical modeling tools and organizational evaluation methods.



### Courses



Principles of Business, Marketing, and Finance  
Business Information Management (BIM) I



Business Law  
Virtual Business  
Banking and Financial Services (Optional)  
Accounting I (Optional)



Human Resources Management  
Business Information Management (BIM) II  
Business Management



Statistics and Business Decision Making  
Practicum in Business Management  
OR  
Career Preparation I

### Postsecondary Opportunities

#### Associates Degrees

- Business Administration
- Business/Commerce
- Public Administration
- Business Management

#### Bachelor's Degrees

- Business Administration
- Business/Commerce
- Public Administration
- Management Science

#### Master's, Doctoral, and Professional Degrees

- Business Administration
- Business Management
- Public Administration
- Management Science

### Industry-Based Certifications

- Microsoft Office Specialist: Microsoft Word Expert
- Microsoft Office Specialist: Microsoft Excel Expert

### Work-Based Learning and Expanded Learning Opportunities

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
<b>Exploration Activities:</b> Future Business Leaders of America (FBLA)	<b>Work Based Learning Activities:</b> Earn industry certification Work on industry projects

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Administrative Service Managers	\$96,138	2,277	21%
Management Analysts	\$87,651	4,706	32%
General and Operations Managers	\$107,640	18,679	20%
Supervisors of Administrative Support Workers	\$57,616	14,982	20%

Successful completion of this program of study will fulfill requirements of the Business and Industry Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Business Management Course Information

### Level 1

#### Principles of Business, Marketing, and Finance

13011200

**Grade: 9-10**

**Credit: 1**

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the 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.

#### Business Information Management I

13011400

**Grade: 9-12**

**Credit: 1**

*Recommended Prerequisite: Touch Systems and Data Entry*

In 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 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.

### Level 2

#### Business Law

13011700

**Grade: 10-12**

**Credit: 1**

Business Law is designed for students to analyze various aspects of the legal environment, including ethics, the judicial system, contracts, personal property, sales, negotiable instruments, agency and employment, business organization, risk management, and real property.

#### Virtual Business

13012000

**Grade: 10-12**

**Credit: 0.5**

*Recommended Prerequisite: Touch Systems and Data Entry*

Virtual Business is designed for students to start a virtual business by creating a web presence, conducting online and off-line marketing, examining contracts appropriate for an online business, and demonstrating project-management skills. Students will also demonstrate bookkeeping skills for a virtual business, maintain business records, and understand legal issues associated with a virtual business.

#### Business Information Management II

13011500

**Grade: 11-12**

**Credit: 1**

*Prerequisite: Business Information Management I*

In Business Information Management II, 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 may earn Microsoft Office Specialist Certification.

Industry Based Certifications: Microsoft Office Specialist: Microsoft Word Expert and Microsoft Office Specialist: Microsoft Excel Expert

#### Accounting I (Optional)

13016600

**Grade: 10-12**

**Credit: 1**

*Recommended Prerequisite: Principles of Principles of Business, Marketing, and Finance*

Accounting encompasses careers that record, classify, summarize, analyze, and communicate a business's financial information/business transactions for use in management decision making. Accounting includes such activities as bookkeeping, systems design, analysis, and interpretation of accounting information.

#### Banking and Financial Services (Optional)

13016300

**Grade: 10-12**

**Credit: 0.5**

*Recommended Prerequisite: Principles of Principles of Business, Marketing, and Finance*

Banking services are primarily concerned with accepting deposits, lending funds, and extending credit. Banking services include cash management, short-term investments, mortgages and other loans, credit cards, and bill payment. Banking services are delivered via a number of different institutions, from commercial banks (the largest group) and other traditional means (savings and loans associations, credit unions, and local banks) to newer ventures through insurance companies, brokerage houses, and the Internet.



## Business Management Course Information

### Level 3

#### Business Management

13012100

**Grade: 10-12**

**Credit: 1**

Business Management is designed to familiarize students with the concepts related to business management as well as the functions of management, including planning, organizing, staffing, leading, and controlling. Students will also demonstrate interpersonal and project-management skills.

#### Human Resources Management

13011900

**Grade: 11-12**

**Credit: 0.5**

Human Resources Management is designed to familiarize students with the concepts related to human resource management, including legal requirements, recruitment and employee selection methods, and employee development and evaluation. Students will also become familiar with compensation and benefits programs as well as workplace safety, employee-management relations, and global impacts on human resources.

### Level 4

#### Statistics and Business Decision Making (Satisfies a math credit)

13016900

**Grade: 12**

**Credit: 1**

*Prerequisite: Algebra II*

Statistics and Business Decision Making is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.

#### Practicum in Business Management

13012200

**Grade: 12**

**Credit: 2**

*Prerequisite: Business Information Management II OR Accounting II*

Practicum in Business Management 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

12701305

**Grade: 12**

**Credit: 3**

*Age Requirement: At least 16 years old*

This course is a work-based instructional arrangement in which students will develop essential knowledge and skills through classroom instruction and on-the-job training in an approved technical-specific area. Students will receive general employability skills as a group; however, each student will have an individual training plan that will address his/her job specific knowledge and skills. The training station must be approved by the instructor. Students will be given job specific training assignments in the classroom or participate in job shadowing or an internship. This course must be a part of the student's coherent sequence of CTE courses. The recommended prerequisite is two semesters of technical training prior to or during this course of study from any CTE pathway. Students must provide their own transportation and a copy of their social security card upon employment. An application and an interview are required before enrollment in the course. Genesys Works is a paid internship with a Fortune 500 company available to seniors who meet specific criteria.



## Education and Training Public Service Endorsement

The Education and Training Career Cluster focuses on planning, managing, and providing education and training services and related learning support services. All parts of courses are designed to introduce learners to the various careers available within the Education and Training career cluster.



## TEACHING & TRAINING



The Teaching and Training program of study prepares CTE learners for careers related to teaching, instruction, and creation of instructional and enrichment materials. The program of study introduces CTE learners to a wide variety of student groups and their corresponding needs. It familiarizes them with the processes for developing curriculum, coordinating educational content, and coaching groups and individuals.



### Courses



Principles of Education and Training  
Principles of Human Services (Optional)



Child Development  
Human Growth and Development



Instructional Practices



Practicum in Education and Training  
OR  
Career Preparation I

### Postsecondary Opportunities

#### Associates Degrees

- Teacher Education
- Education, General (or specific subject area)
- Special Education
- Health and Physical Education/Fitness

#### Bachelor's Degrees

- Bilingual and Multilingual Education
- Education, General (or specific subject area)
- Special Education
- Health and Physical Education/Fitness

#### Master's, Doctoral, and Professional Degrees

- Instruction and Learning
- Educational Leadership and Administration, General
- Special Education
- Social and Philosophical Foundations of Education

### Industry-Based Certifications

- Educational Aide I

### Work-Based Learning and Expanded Learning Opportunities

#### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

##### Exploration Activities:

Texas Association of Future Teachers (TAFE)

##### Work Based Learning Activities:

Earn industry certification  
Intern as a teaching assistant or tutor

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Adult Basic and Secondary Education and Literacy Teachers and instructors	\$48,069	862	17%
Middle School Teachers, Except Special and Career/Technical Education	\$54,510	6,407	15%
Career and Technical Education Teachers, Secondary School	\$56,360	719	9%
Special Education Teachers, Secondary School	\$56,720	980	18%

Successful completion of this program of study will fulfill requirements of the Public Service Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Teaching & Training Course Information

### Level 1

#### Principles of Education and Training

13014200

**Grade: 9-10**

**Credit: 1**

Principles of Education and Training is designed to introduce learners to the various careers available within the Education and Training Career Cluster. Students use self-knowledge as well as educational and career information to analyze various careers within the Education and Training Career Cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.

#### Principles of Human Services

13024200

**Grade: 9-10**

**Credit: 1**

Principles of Human Services is a laboratory course that will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, personal care, and consumer 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.

### Level 2

#### Child Development

13024700

**Grade: 10-12**

**Credit: 1**

*Recommended Prerequisite: Principles of Education and Training OR Principles of Human Services*

Child Development is a course that addresses knowledge and skills related to child growth and development from prenatal through school-age children. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.

#### Human Growth and Development

13014300

**Grade: 10-12**

**Credit: 1**

*Recommended Prerequisite: Principles of Education and Training OR Principles of Human Services*

Human Growth and Development is an examination of human development across the lifespan with emphasis on 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.

### Level 3

#### Instructional Practices

13014400

**Grade: 11-12**

**Credit: 2**

*Prerequisite: Human Growth and Development OR Child Development*

Instructional Practices is a field-based (practicum) 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, middle childhood, and adolescence 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.



## Teaching & Training Course Information

### Level 4

#### Practicum in Education and Training

13014500

**Grade: 12**

**Credit: 2**

*Prerequisite: Instructional Practices*

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, middle childhood, and adolescence 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.

Industry Based Certification: Educational Aide I

#### Career Preparation I

12701305

**Grade: 12**

**Credit: 3**

*Age Requirement: At least 16 years old*

This course is a work-based instructional arrangement in which students will develop essential knowledge and skills through classroom instruction and on-the-job training in an approved technical-specific area. Students will receive general employability skills as a group; however, each student will have an individual training plan that will address his/her job specific knowledge and skills. The training station must be approved by the instructor. Students will be given job specific training assignments in the classroom or participate in job shadowing or an internship. This course must be a part of the student's coherent sequence of CTE courses. The recommended prerequisite is two semesters of technical training prior to or during this course of study from any CTE pathway. Students must provide their own transportation and a copy of their social security card upon employment. An application and an interview are required before enrollment in the course. Genesys Works is a paid internship with a Fortune 500 company available to seniors who meet specific criteria.

Industry Based Certification: Educational Aide I



## Health Science Public Service Endorsement

The Health Science Career Cluster focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.



## HEALTH INFORMATICS (Dual Credit)



The Health Informatics program of study focuses on exposing students to the management and use of patient information in the healthcare field. Students may learn about and research recent modifications of computerized healthcare and the process of creating and maintaining hospital and patient records in accordance with regulatory requirements of the healthcare system. Students may also practice writing and interpreting medical reports.



### Courses



Principles of Health Science  
Business Information Management (BIM) I



Medical Terminology



Health Informatics @ San Jacinto College  
Medical Intervention Evaluation and Research @ San Jacinto College  
Healthcare Administration and Management @ San Jacinto College  
Anatomy and Physiology



Project-Based Research @ San Jacinto College

### Postsecondary Opportunities

#### Associates Degrees

- Health Information/Medical Records Technology/Technician

#### Bachelor's Degrees

- Medical and Health Service Managers

#### Master's, Doctoral, and Professional Degrees

- Medical and Health Service Managers

### Work-Based Learning and Expanded Learning Opportunities

#### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

##### Exploration Activities:

Health Occupation Students of  
America (HOSA)

##### Work Based Learning Activities:

Volunteer at a community  
wellness center, hospital,  
assisted living center, or nursing  
home.

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Medical Records and Health Information Technicians	\$35,922	1,588	24%
Medical and Health Service Managers	\$93,995	2,562	29%
Billing and Posting Clerks	\$35,485	5,775	25%

Successful completion of this program of study will fulfill requirements of the Public Service Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Health Informatics Course Information

### Level 1

#### Principles of Health Science

13020200

**Grade: 9-10**

**Credit: 1**

The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others.

#### Business Information Management I

13011400

**Grade: 9-12**

**Credit: 1**

*Recommended Prerequisite: Touch Systems and Data Entry*

In 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 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.

### Level 2

#### Medical Terminology

13020300

**Grade: 10-12**

**Credit: 1**

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

#### Medical Intervention Evaluation and Research @ San Jacinto College

N1302125

**Grade: 11-12**

**Credit: 1**

*Recommended Prerequisite: Principles of Health Science*

Medical Intervention, Evaluation, and Research further develops basic knowledge of health informatics, data management, and biotechnological advances and their connections in the various healthcare settings. Topics include informatics in medical intervention and evaluation, electronic patient management systems, applications in medical diagnostics, best practices in billing and coding medical diagnosis and procedures, appropriate International Classification of Diseases (ICD) 10 codes, fraud prevention, and databases culminating in an extended learning experience.

### Level 3

#### Health Informatics @ San Jacinto College

13020960

**Grade: 11-12**

**Credit: 1**

*Prerequisite: Business Information Management I and Medical Terminology*

The Health Informatics course is designed to provide knowledge of one of the fastest growing areas in both academic and professional fields. The large gap between state of the art computer technologies and the state of affairs in health care information technology has generated demand for information and health professionals who can effectively design, develop, and use technologies such as electronic medical records, patient monitoring systems, and digital libraries, while managing the vast amount of data generated by these systems.

#### Healthcare Administration and Management @ San Jacinto College

13020962

**Grade: 11-12**

**Credit: 1**

*Prerequisite: Medical Terminology*

Healthcare Administration and Management is designed to familiarize students with the concepts related to healthcare administration as well as the functions of management, including planning, organizing, staffing, leading, and controlling. Students will also demonstrate interpersonal and project-management skills.



## Health Informatics Course Information

Level 4

**Anatomy and Physiology (Satisfies a science credit)**

**13020600**

**Grade: 11-12**

**Credit: 1**

**GPA: 5.0**

*Prerequisite: Biology AND Chemistry; may be taken concurrent with Physics for STEM endorsement*

In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

**Project-Based Research @ San Jacinto College**

**12701500**

**Grade: 12**

**Credit: 1**

Project-Based Research is a course for students to research a real-world problem. Students are matched with a mentor from the business or professional community to develop an original project on a topic related to career interests. Students use scientific methods of investigation to conduct in-depth research, compile findings, and present their findings to an audience that includes experts in the field. To attain academic success, students must have opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.



## Health Science Public Service Endorsement

The Health Science Career Cluster focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.



## HEALTHCARE DIAGNOSTICS (Dual Credit Option Available)



The Healthcare Diagnostics program of study introduces students to occupations and education opportunities related to performing complex medical laboratory tests for the diagnosis, treatment, and prevention of disease. This program of study may also include exploration into the opportunities associated with blood laboratories as well as radiologic technology and ultrasound technology.



### Courses

	KHS Pathway	Medical Assisting Pathway
9 <sup>th</sup> Grade	Principles of Health Science	Principles of Health Science Business Information Management (BIM) I
10 <sup>th</sup> Grade	Medical Terminology	Health Science Theory
11 <sup>th</sup> Grade	Health Science Theory	Medical Terminology @ San Jacinto College Business English @ San Jacinto College Health Informatics @ San Jacinto College
12 <sup>th</sup> Grade	Anatomy and Physiology Practicum in Health Science	Anatomy and Physiology @ San Jacinto College Pathophysiology @ San Jacinto College Practicum in Health Science @ San Jacinto College

### Postsecondary Opportunities

#### Associates Degrees

- Nuclear Medical Technology/Technologist
- Magnetic Resonance Imaging (MRI) Technology/Technician

#### Bachelor's Degrees

- Nuclear Medical Technology/Technologist
- Magnetic Resonance Imaging (MRI) Technology/Technician

#### Master's, Doctoral, and Professional Degrees

- Radiologist
- Radiologic Technology/Science Radiographer

### Industry-Based Certifications

- Certified EKG Technician
- Patient Care Technician

### Work-Based Learning and Expanded Learning Opportunities

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
<b>Exploration Activities:</b> Health Occupation Students of America (HOSA)	<b>Work Based Learning Activities:</b> Clinical rotations at a community wellness center, hospital, assisted living, nursing home

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Diagnostic Medical Sonographers	\$69,909	495	35%
Phlebotomists	\$30,597	1,442	36%
Nuclear Medicine Technologists	\$75,962	91	13%
Radiologic Technologists	\$55,494	1,196	21%
Magnetic Resonance Imaging Technologists	\$68,661	217	21%

Successful completion of this program of study will fulfill requirements of the Public Service Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Healthcare Diagnostics

### Course Information

#### Level 1

##### Principles of Health Science

13020200

**Grade: 9-10**

**Credit: 1**

The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others.

##### Business Information Management I (Required for Medical Assisting Pathway)

13011400

**Grade: 9-12**

**Credit: 1**

*Recommended Prerequisite: Touch Systems and Data Entry*

In 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 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.

#### Level 2

##### Medical Terminology

13020300

**Grade: 10-12**

**Credit: 1**

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

Note: Medical Assisting Pathway students will be taking this course at San Jacinto College.

#### Level 3

##### Health Science Theory

13020400

**Grade: 10-12**

**Credit: 1**

*Prerequisite: 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 employ hands-on experiences for continued knowledge and skill development.

##### Health Informatics @ San Jacinto College

13020960

**Grade: 11-12**

**Credit: 1**

*Prerequisite: Business Information Management I and Medical Terminology*

The Health Informatics course is designed to provide knowledge of one of the fastest growing areas in both academic and professional fields. The large gap between state of the art computer technologies and the state of affairs in health care information technology has generated demand for information and health professionals who can effectively design, develop, and use technologies such as electronic medical records, patient monitoring systems, and digital libraries, while managing the vast amount of data generated by these systems.



## Healthcare Diagnostics Course Information

Level 4

Business English @ San Jacinto College

13011600

**Grade: 11-12**

**Credit: 1**

*Prerequisite: English III*

In Business English, students enhance communication and research skills by applying them to the business environment, in addition to exchanging information and producing properly formatted business documents using emerging technology.

Anatomy and Physiology (Satisfies a science credit) (KHS Pathway)

13020600

**Grade: 11-12**

**Credit: 1**

**GPA: 5.0 (6.0 for San Jacinto College course)**

*Prerequisite: Biology AND Chemistry; may be taken concurrent with Physics for STEM endorsement*

In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

Note: Medical Assisting Pathway students will be taking this course at San Jacinto College.

Pathophysiology @ San Jacinto College

13020800

**Grade: 12**

**Credit: 1**

*Prerequisite: Biology and Chemistry*

The Pathophysiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology will study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.

Practicum in Health Science

13020500

**Grade: 12**

**Credit: 2**

*Prerequisite: Health Science Theory and Biology*

The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills in Health science. Practicum experiences offer a variety of opportunities to pursue a career in the health care industry. Students are expected to apply the knowledge and skills necessary to pursue a health science certification or licensure through further education and employment and are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

KHS Industry Based Certifications: Certified EKG Technician, Patient Care Technician

Note: Medical Assisting Pathway students will be taking this course at San Jacinto College.



## Health Science Public Service Endorsement

The Health Science Career Cluster focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.



### HEALTHCARE THERAPEUTICS (Dual Credit Option Available)



The Healthcare Therapeutic program of study introduces students to occupations and educational opportunities related to diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study also includes an introduction to the opportunities associated with providing treatment and counsel to patients as well as rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.



### Courses

	KHS Pathway	Pharmacy Pathway
9 <sup>th</sup> Grade	Principles of Health Science	Principles of Health Science
10 <sup>th</sup> Grade	Pharmacy I Medical Terminology	Pharmacy I Medical Terminology
11 <sup>th</sup> Grade	Health Science Theory Anatomy and Physiology	Health Science Theory @ San Jacinto College Pharmacy II @ San Jacinto College
12 <sup>th</sup> Grade	Pharmacology Practicum in Health Science	Pharmacology @ San Jacinto College Mathematics for Medical Professionals @ San Jacinto College Practicum in Health Science @ San Jacinto College

### Postsecondary Opportunities

#### Associates Degrees

- Dental Hygienist
- Medical/Clinical Assistant

#### Bachelor's Degrees

- Dental Hygienist

#### Master's, Doctoral, and Professional Degrees

- Dentist
- Physician Assistant
- Family and General Practitioners
- Pharmacist

### Industry-Based Certifications

- Pharmacy Technician

### Work-Based Learning and Expanded Learning Opportunities

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
<b>Exploration Activities:</b> Health Occupation Students of America (HOSA)	<b>Work Based Learning Activities:</b> Volunteer at a community wellness center, hospital, assisted living, or nursing home

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Medical Assistants	\$29,598	8,862	30%
Surgical Technologists	\$46,310	1,150	21%
Dental Hygienists	\$73,507	1,353	38%
Physicians and Surgeons	\$213,071	1,151	30%

Successful completion of this program of study will fulfill requirements of the Public Service Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Healthcare Therapeutics

### Course Information

#### Level 1

##### Principles of Health Science

13020200

**Grade:** 9-10

**Credit:** 1

The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others.

#### Level 2

##### Medical Terminology

13020300

**Grade:** 10-12

**Credit:** 1

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

##### Pharmacy I

N1302127

**Grade:** 10-11

**Credit:** 1

*Recommended Prerequisite: Principles of Health Science and Biology*

In Pharmacy I students build on their existing foundation of knowledge and skills needed to pursue a career in the pharmaceutical field such as a pharmacy technician or pharmacist). Instruction includes pharmacokinetics, pharmacy law, medication safety, the dispensing process, and inventory.

#### Level 3

##### Health Science Theory

13020400

**Grade:** 10-12

**Credit:** 1

*Prerequisite: 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 employ hands-on experiences for continued knowledge and skill development.

Note: Pharmacy dual credit students will take this course at San Jacinto College.

##### Pharmacy II @ San Jacinto College

13021030

**Grade:** 11-12

**Credit:** 1

*Prerequisite: Pharmacy I, Biology AND Chemistry*

The Pharmacy II course provides students with the advanced knowledge and skills to explore various careers in the pharmacy field, including pharmacology, pharmacy law, medication errors, inventory pharmacy calculations, compounding, and workflow expectations in a pharmacy setting. Pharmacy II is designed to be the third course in a pathway leading to college and career readiness in the healthcare therapeutics professions.



## Healthcare Therapeutics

### Course Information

Level 4

#### Anatomy and Physiology (Satisfies a science credit)

13020600

**Grade: 11-12**

**Credit: 1**

**GPA: 5.0**

*Prerequisite: Biology AND Chemistry; may be taken concurrent with Physics for STEM endorsement*

In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

#### Pharmacology

13020950

**Grade: 11-12**

**Credit: 1**

*Prerequisite: Biology and Chemistry*

*Recommended Prerequisite: 1 credit from Health Science cluster*

The Pharmacology course is designed to study how natural and synthetic chemical agents such as drugs affect biological systems. Knowledge of the properties of therapeutic agents is vital in providing quality health care. It is an ever-changing, growing body of information that continually demands greater amounts of time and education from health care workers.

Note: Pharmacy dual credit students will take this course at San Jacinto College.

#### Mathematics for Medical Professionals @ San Jacinto College

13020970

**Grade: 12**

**Credit: 1**

*Prerequisite: Geometry and Algebra II*

The Mathematics for Medical Professionals course is designed to serve as the driving force behind the Texas essential knowledge and skills for mathematics, guided by the college and career readiness standards. By embedding statistics, probability, and finance, while focusing on fluency and solid understanding in medical mathematics, students will extend and apply mathematical skills necessary for health science professions. Course content consists primarily of high school level mathematics concepts and their applications to health science professions.

#### Practicum in Health Science

13020500

**Grade: 12**

**Credit: 2**

*Prerequisite: Health Science Theory and Biology*

The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills in Health science. Practicum experiences offer a variety of opportunities to pursue a career in the health care industry. Students are expected to apply the knowledge and skills necessary to pursue a health science certification or licensure through further education and employment and are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

KHS Industry Based Certification: Pharmacy Technician

Note: Pharmacy dual credit students will take this course at San Jacinto College.



## Health Science Public Service Endorsement

The Health Science Career Cluster focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.



## NURSING SCIENCE (KNIT Program)



The Nursing Science program of study introduces students to the knowledge and skills related to patient care. CTE learners may learn about or practice caring for patients, routine procedures such as monitoring vital signs, development and implementation of care plans, maintenance of medical records, and disease or pain management. Students may focus on the healthcare system and research system designs and make recommended modifications.



### Courses



Principles of Health Science



Medical Terminology  
Health Science Theory



Anatomy and Physiology @ San Jacinto College  
Psychology @ San Jacinto College  
Humanities @ San Jacinto College



Medical Microbiology @ San Jacinto College  
English IV @ San Jacinto College  
Human Growth and Development @ San Jacinto College

### Postsecondary Opportunities

#### Associates Degrees

- Registered Nursing/Registered Nurse

#### Bachelor's Degrees

- Informatics Nurse Specialists

#### Master's, Doctoral, and Professional Degrees

- Nurse Practitioner
- Nursing Administration
- Nurse Anesthetist

### Industry-Based Certifications

- Certified EKG Technician
- Patient Care Technician

### Work-Based Learning and Expanded Learning Opportunities

#### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

##### Exploration Activities:

Health Occupation Students of  
America (HOSA)

##### Work Based Learning Activities:

Volunteer at a community  
wellness center, hospital,  
assisted living center, or nursing  
home.

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Licensed Vocational Nurses	\$45,178	7,186	21%
Registered Nurses	\$68,682	17,493	26%
Nurse Practitioners	\$107,827	977	50%
Nurse Anesthetists	\$154,856	357	23%

Successful completion of this program of study will fulfill requirements of the Public Service Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Nursing Science Course Information

### Level 1

#### Principles of Health Science

13020200

**Grade: 9-10**

**Credit: 1**

The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others.

### Level 2

#### Medical Terminology

13020300

**Grade: 10-12**

**Credit: 1**

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

### Level 3

#### Health Science Theory

13020400

**Grade: 10-12**

**Credit: 1**

*Prerequisite: 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 employ hands-on experiences for continued knowledge and skill development.

### Level 4

#### Anatomy and Physiology @ San Jacinto College

13020600

**Grade: 11-12**

**Credit: 1**

**GPA: 6.0**

*Prerequisite: Biology and Chemistry; may be taken concurrent with Physics for STEM endorsement*

In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

#### Medical Microbiology @ San Jacinto College

13020700

**Grade: 11-12**

**Credit: 1**

*Prerequisite: Biology and Chemistry*

The Medical Microbiology course is designed to explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases

#### Human Growth and Development @ San Jacinto College

13014300

**Grade: 10-12**

**Credit: 1**

*Recommended Prerequisite: Principles of Education and Training*

Human Growth and Development is an examination of human development across the lifespan with emphasis on 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.



## Hospitality and Tourism Business & Industry Endorsement

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. Students acquire knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success.



## CULINARY ARTS

Limited Seating



The Culinary Arts program of study introduces CTE learners to occupations and educational opportunities related to the planning, directing, or coordinating activities of a food and beverage organization or department. This program of study also explores opportunities involved in directing and participating in the preparation and cooking of food.



### Courses



Introduction to Culinary Arts  
Principles of Hospitality and Tourism (Optional)



Culinary Arts



Advanced Culinary Arts



Practicum in Culinary Arts  
OR  
Career Preparation I

### Postsecondary Opportunities

#### Associates Degrees

- Hotel and Restaurant Management
- Restaurant Culinary and Catering Management
- Hospitality Administration/ Management, General
- Culinary Arts/ Chef Training

#### Bachelor's Degrees

- Hotel and Restaurant Management
- Food Service Systems Administration/ Management
- Hospitality Administration/ Management, General
- Culinary Science and Food Service Management

#### Master's, Doctoral, and Professional Degrees

- Hotel and Restaurant Management
- Food Service Systems Administration/ Management
- Hospitality Administration/ Management, General
- Business Administration Management, General

### Industry-Based Certifications

- ServSafe Manager

### Work-Based Learning and Expanded Learning Opportunities

#### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

##### Exploration Activities:

Participate in Family, Career,  
and Community Leaders of  
America

##### Work Based Learning Activities:

Plan a catering event or work for  
a catering company  
Work in a restaurant  
Earn industry certification

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Food Service Managers	\$55,619	1,561	28%
Chef and Head Cooks	\$43,285	1,366	25%
Food Science Technicians	\$34,382	236	11%

Successful completion of this program of study will fulfill requirements of the Business and Industry Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Culinary Arts Course Information

### Level 1

#### Introduction to Culinary Arts

13022550

**Grade:** 9-10

**Credit:** 1

Introduction to Culinary Arts will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. 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.

#### Principles of Hospitality and Tourism

13022200

**Grade:** 9-10

**Credit:** 1

Principles of Hospitality and Tourism introduces students to an industry that encompasses lodging, travel and tourism, recreation, amusements, attractions, and food/beverage operations. Students learn knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success in that industry.

### Level 2

#### Culinary Arts

13022600

**Grade:** 10-12

**Credit:** 2

*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 or other appropriate industry certifications. This course is offered as a laboratory-based course.

### Level 3

#### Advanced Culinary Arts

13022650

**Grade:** 11-12

**Credit:** 2

*Prerequisite:* Culinary Arts

Advanced Culinary Arts will extend content and enhance skills introduced in Culinary Arts by in-depth instruction of industry-driven standards in order to prepare students for success in higher education, certifications, and/or immediate employment.

Industry Based Certification Offered: ServSafe Manager



## Culinary Arts Course Information

Level 4

### Practicum in Culinary Arts

13022700

**Grade: 12**

**Credit: 2**

*Prerequisite: Advanced Culinary Arts*

Practicum in Culinary Arts 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.

Industry Based Certification: ServSafe Manager

### Career Preparation I

12701305

**Grade: 12**

**Credit: 3**

*Age Requirement: At least 16 years old*

This course is a work-based instructional arrangement in which students will develop essential knowledge and skills through classroom instruction and on-the-job training in an approved technical-specific area. Students will receive general employability skills as a group; however, each student will have an individual training plan that will address his/her job specific knowledge and skills. The training station must be approved by the instructor. Students will be given job specific training assignments in the classroom or participate in job shadowing or an internship. This course must be a part of the student's coherent sequence of CTE courses. The recommended prerequisite is two semesters of technical training prior to or during this course of study from any CTE pathway. Students must provide their own transportation and a copy of their social security card upon employment. An application and an interview are required before enrollment in the course. Genesys Works is a paid internship with a Fortune 500 company available to seniors who meet specific criteria.



## Human Services Public Service Endorsement

The Human Services Career Cluster focuses on preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care services, and consumer services.



## COSMETOLOGY & PERSONAL CARE SERVICES (Dual Credit)

Limited Seating



The Cosmetology and Personal Care Services regional program of study introduces CTE learners to knowledge and skills related to providing beauty and personal care services. CTE concentrators may learn about or practice managing personal care facilities and coordinating or supervising personal service workers.



### Courses



Principles of Cosmetology Design & Color Theory



Introduction to Cosmetology



Cosmetology I with Lab (San Jacinto College Course)



Cosmetology II with Lab (San Jacinto College Course)

### Postsecondary Opportunities

#### Certificate/License

- Certified Aesthetic Laser Operator
- Cosmetologist
- Certified Spa Supervisor
- Nail Technician/Specialist and Manicurist

#### Associates Degrees

- Cosmetology/Cosmetologist, General
- Aesthetician/Esthetician and Skin Care Specialist
- Salon/Beauty Salon Management/Manager
- Cosmetology, Barber/Styling, and Nail Instructor

### Industry-Based Certifications

- Cosmetology Operator License

### Work-Based Learning and Expanded Learning Opportunities

#### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

**Exploration Activities:**  
SkillsUSA

**Work Based Learning Activities:**

Job shadow a cosmetologist  
Work part-time at a beauty salon, spa, or barbershop  
Earn industry certification

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
First-Line Supervisors of Personnel Service Workers	\$36,941	1,634	24%
Barbers	\$28,267	348	14%
Hairdressers, Hairstylists, and Cosmetologists	\$21,507	3,489	22%
Manicurists and Pedicurists	\$21,715	418	45%
Shampooers	\$18,720	139	24%
Skin Care Specialists	\$26,437	637	22%

Successful completion of this program of study will fulfill requirements of the Public Service Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Cosmetology & Personal Care Services

### Course Information

#### Level 1

##### Principles of Cosmetology Design & Color Theory

13025050

Grade: 9-10

Credit: 1

In Principles of Cosmetology Design and Color Theory, 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. Students will attain academic skills and knowledge as well as technical knowledge and skills related to cosmetology design and color theory. Students will develop knowledge and skills regarding various cosmetology design elements such as form, lines, texture, structure and illusion or depth as they relate to the art of cosmetology. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the TDLR requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included.

#### Level 2

##### Introduction to Cosmetology

13025100

Grade: 10

Credit: 1

In Introduction to Cosmetology, students explore careers in the cosmetology industry. To prepare for success, students must have academic and technical knowledge and skills relative to the industry. Students may begin to earn hours toward state licensing requirements.

#### Level 3

##### Cosmetology I with Lab

13025210

Grade: 11-12

Credit: 3

*Prerequisite: Introduction to Cosmetology*

In Cosmetology I, 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 (TDLR) requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included.

#### Level 4

##### Cosmetology II with Lab

13025310

Grade: 12

Credit: 3

*Prerequisite: Cosmetology I*

In Cosmetology II, students will demonstrate proficiency in academic, technical, and practical knowledge and skills. The content is designed to provide the occupational skills required for licensure. Instruction includes advanced training in professional standards/employability skills; Texas Department of Licensing and Regulation (TDLR) rules and regulations; use of tools, equipment, technologies and materials; and practical skills.

Industry Based Certification: Cosmetology Operator License



## Human Services Public Service Endorsement

The Human Services Career Cluster focuses on preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care services, and consumer services.



## FAMILY & COMMUNITY SERVICES



The Family and Community Services program of study introduces students to knowledge and skills related to social services, including child and human development and consumer sciences. CTE learners may learn about or practice managing social and community services or teaching family and consumer sciences. Students may follow career paths in social work or therapy for children, families, or school communities.



### Courses



Principles of Human Services  
Professional Communications  
Interpersonal Studies



Lifetime Nutrition and Wellness  
Dollars and Sense  
Human Growth and Development  
Child Development



Counseling and Mental Health



Practicum in Human Services  
OR  
Career Preparation I

### Postsecondary Opportunities

#### Associates Degrees

- Human Development and Family Studies
- Human Services/Sciences, General
- Family and Consumer Sciences
- Community Health Services

#### Bachelor's Degrees

- Human Development and Family Studies
- Human Services/Sciences, General
- Family and Consumer Sciences
- Child and Family Services

#### Master's, Doctoral, and Professional Degrees

- Human Development and Family Studies
- Marriage and Family Therapy/Counseling
- Human Services/Sciences
- Family Studies

### Industry-Based Certifications

- Community Health Worker

### Work-Based Learning and Expanded Learning Opportunities

#### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

##### Exploration Activities:

Family, Career, Community Leaders of America (FCCLA)

##### Work Based Learning Activities:

Volunteer at a community center; intern for a community non-profit organization  
Earn industry certification

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Child, Family, and School Social Workers	\$41,350	2,221	17%
Social and Community Services Manager	\$65,146	608	33%
Marriage and Family Therapists	\$42,266	217	35%
Social and Human Service Assistants	\$32,448	2,822	25%

Successful completion of this program of study will fulfill requirements of the Public Service Endorsement.  
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## Family and Community Services

### Course Information

#### Level 1

##### Principles of Human Services

13024200

**Grade: 9-10**

**Credit: 1**

Principles of Human Services is a laboratory course that will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, personal care, and consumer 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.

##### Professional Communications

13009900

**Grade: 9-12**

**Credit: 0.5**

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 context, 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.

##### Interpersonal Studies

13024400

**Grade: 9-12**

**Credit: 0.5**

*Recommended Prerequisite: Principles of Human Services, Principles of Health Science, OR Principles of Education and Training*

Interpersonal Studies examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services.

##### Dollars and Sense

13024300

**Grade: 10-12**

**Credit: 0.5**

*Recommended Prerequisite: Principles of Human Services*

Dollars and Sense focuses on consumer practices and responsibilities, money-management processes, decision-making skills, impact of technology, and preparation for human services careers.

#### Level 2

##### Lifetime Nutrition and Wellness

13024500

**Grade: 9-12**

**Credit: 0.5**

*Recommended Prerequisite: Principles of Human Services*

Lifetime Nutrition and Wellness is a laboratory course that allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences.

##### Child Development

13024700

**Grade: 10-12**

**Credit: 1**

*Recommended Prerequisite: Principles of Education and Training OR Principles of Human Services*

Child Development is a course that addresses knowledge and skills related to child growth and development from prenatal through school-age children. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.

##### Human Growth and Development

13014300

**Grade: 10-12**

**Credit: 1**

*Recommended Prerequisite: Principles of Education and Training OR Principles of Human Services*

Human Growth and Development is an examination of human development across the lifespan with emphasis on 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.



## Family and Community Services

### Course Information

#### Level 3

##### Counseling and Mental Health

13024600

**Grade: 11-12**

**Credit: 1**

*Recommended Prerequisite: Principles of Human Services*

In Counseling and Mental Health, 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.

#### Level 4

##### Practicum in Human Services

13025000

**Grade: 12**

**Credit: 2**

Practicum in Human Services provides background knowledge and occupation-specific training that 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.

Industry Based Certification: Community Health Workers

##### Career Preparation I

12701305

**Grade: 12**

**Credit: 3**

*Age Requirement: At least 16 years old*

This course is a work-based instructional arrangement in which students will develop essential knowledge and skills through classroom instruction and on-the-job training in an approved technical-specific area. Students will receive general employability skills as a group; however, each student will have an individual training plan that will address his/her job specific knowledge and skills. The training station must be approved by the instructor. Students will be given job specific training assignments in the classroom or participate in job shadowing or an internship. This course must be a part of the student's coherent sequence of CTE courses. The recommended prerequisite is two semesters of technical training prior to or during this course of study from any CTE pathway. Students must provide their own transportation and a copy of their social security card upon employment. An application and an interview are required before enrollment in the course. Genesys Works is a paid internship with a Fortune 500 company available to seniors who meet specific criteria.



## Law and Public Service Public Service Endorsement

The Law and Public Service Career Cluster focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and fire and emergency services.



## EMERGENCY SERVICES (Dual Credit)



The Emergency Services program of study focuses on training CTE learners to respond to emergency situations, such as medical emergencies and fire-based emergencies. Students will learn how to prevent emergencies, respond appropriately and in accordance with rules and regulations during crises, and investigate and delineate the source of the emergency.



### Courses



Principles of Law, Public Safety, Corrections, and Security



Business Information Management (BIM) I



Counseling and Mental Health



Anatomy and Physiology @ San Jacinto College  
Emergency Medical Technician @ San Jacinto College  
Practicum in Law, Public Safety, Corrections, and Security @ San Jacinto College

### Postsecondary Opportunities

#### Associates Degrees

- Emergency Medical Technology/Technician (EMT Paramedic)
- Fire Prevention and Safety Technology/Technician
- Fire Science/Firefighting

#### Bachelor's Degrees

- Emergency Medical Technology/Technician (EMT Paramedic)
- Natural Resources Law Enforcement and Protective Services

### Work-Based Learning and Expanded Learning Opportunities

#### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

##### Exploration Activities:

Health Occupation Students of America (HOSA)

##### Work Based Learning Activities:

Volunteer at a hospital or a fire station

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Firefighters	\$50,149	2,309	13%
Fire Inspectors and Investigators	\$54,787	161	14%
Emergency Medical Technicians	\$34,091	1,880	31%

Successful completion of this program of study will fulfill requirements of the Public Service Endorsement.  
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## Emergency Services Course Information

### Level 1

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

13029200

**Grade: 9-10**

**Credit: 1**

Principles of Law, Public Safety, Corrections, and Security introduces students to professions in law enforcement, protective services, corrections, firefighting, 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, protective services, and corrections.

#### Business Information Management I

13011400

**Grade: 9-12**

**Credit: 1**

*Recommended Prerequisite: Touch Systems and Data Entry*

In 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 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.

### Level 3

#### Counseling and Mental Health

13024600

**Grade: 11-12**

**Credit: 1**

*Recommended Prerequisite: Principles of Human Services OR Principles of Law, Public Safety, Corrections and Security*

In Counseling and Mental Health, 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.

#### Emergency Medical Technician – Basic @ San Jacinto College

N1303015

**Grade: 12**

**Credit: 2**

*Prerequisite: Biology*

Emergency Medical Technician (EMT)—Basic instructs students to meet and exceed standard knowledge needed to be a valid Emergency Medical Technician. The curriculum includes skills necessary for a student to provide entry level emergency medical care, life support, and ambulance service.

### Level 4

#### Anatomy and Physiology (Satisfies a science credit) @ San Jacinto College

13020600

**Grade: 11-12**

**Credit: 1**

**GPA: 6.0**

*Prerequisite: Biology and Chemistry; may be taken concurrent with Physics for STEM endorsement*

In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

#### Practicum in Law, Public Safety, Corrections, and Security @ San Jacinto College

13030100

**Grade: 12**

**Credit: 2**

*Prerequisite: 1 credit in a Law and Public Service course*

The practicum course is designed to give students supervised practical application of previously studied knowledge and skills in law, public safety, corrections, and security. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.



## Law and Public Service Public Service Endorsement

The Law and Public Service Career Cluster focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and fire and emergency services.



## LAW ENFORCEMENT (Dual Credit)



The Law Enforcement program of study teaches CTE learners about the development of, adherence to, and protection of various branches of law. Students will learn how to appropriately and legally respond to breaches in the law according to statutory rules and regulations as well as investigate how and why the breaches occurred.



### Courses



Principles of Law, Public Safety, Corrections, and Security



Law Enforcement I  
Business Law (Optional)



Counseling and Mental Health  
Court Systems and Practices (San Jacinto College Course)  
Correctional Services (San Jacinto College Course)  
Federal Law Enforcement and Protective Services (San Jacinto College Course)



Forensic Science  
Criminal Investigations (San Jacinto College Course)  
Law Enforcement II (San Jacinto College Course)

### Postsecondary Opportunities

#### Associates Degrees

- Criminal Justice/Safety Studies/Law
- Enforcement Administration
- Criminal Justice/Police Science
- Corrections
- Criminalistics and Criminal Science

#### Bachelor's Degrees

- Criminal Justice/Safety Studies/Law
- Enforcement Administration
- Criminal Justice/Police Science
- Juvenile Corrections
- Cyber/Computer Forensics and Counterterrorism

#### Master's, Doctoral, and Professional Degrees

- Criminal Justice/Safety Studies/Law
- Enforcement Administration
- Natural Resources
- Law Enforcement and Protective Services

### Industry-Based Certifications

- Non-Commissioned Security Officer Level II
- International Academy of Emergency Dispatch Emergency Telecommunicator

### Work-Based Learning and Expanded Learning Opportunities

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
<b>Exploration Activities:</b> Criminal Justice Club, SkillsUSA	<b>Work Based Learning Activities:</b> Attend court hearings and other legal procedures

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Police and Sheriff's Patrol Officers	\$60,112	5,241	13%
Probation Officers and Correctional Treatment Officers	\$44,054	793	9%
Correctional Officers and Jailers	\$40,186	4,683	9%
Immigration and Customs Inspectors	\$78,104	1,236	9%
First-Line Supervisors of Police and Detectives	\$91,312	253	25%

Successful completed of this program of study will fulfill requirements of the Public Service Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Law Enforcement Course Information

### Level 1

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

13029200

**Grade:** 9-10

**Credit:** 1

Principles of Law, Public Safety, Corrections, and Security introduces students to professions in law enforcement, protective services, corrections, firefighting, 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, protective services, and corrections.

### Level 2

#### Law Enforcement I

13029300

**Grade:** 10-12

**Credit:** 1

*Recommended Prerequisite:* Principles of Law, Public Safety, Corrections, and Security

Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. Students will understand the role of constitutional law at local, state, and federal levels; the U.S. legal system; criminal law; and law enforcement terminology and the classification and elements of crime.

#### Federal Law Enforcement and Protective Services (San Jacinto College Course)

13029800

**Grade:** 11-12

**Credit:** 1

*Recommended Prerequisite:* Principles of Law, Public Safety, Corrections, and Security

Federal Law Enforcement and Protective Services provides the knowledge and skills necessary to prepare for certification in security services for federal law enforcement and protective services. The course provides an overview of security elements and types of organizations with a focus on security measures used to protect lives, property, and proprietary information, to ensure computer security, to provide information assurance, and to prevent cybercrime.

#### Criminal Investigations (San Jacinto College Course)

13029550

**Grade:** 11-12

**Credit:** 1

*Recommended Prerequisite:* Principles of Law, Public Safety, Corrections, and Security

Criminal Investigation is a course that introduces students 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.

#### Court Systems and Practices (San Jacinto College Course)

13029600

**Grade:** 11-12

**Credit:** 1

*Recommended Prerequisite:* Law Enforcement I

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.

#### Business Law (Optional)

13011700

**Grade:** 10-12

**Credit:** 1

*Recommended Prerequisite:* Principles of Principles of Business, Marketing, and Finance

Business Law is designed for students to analyze various aspects of the legal environment, including ethics, the judicial system, contracts, personal property, sales, negotiable instruments, agency and employment, business organization, risk management, and real property.



## Law Enforcement Course Information

### Level 3

#### Counseling and Mental Health

13024600

**Grade: 11-12**

**Credit: 1**

*Recommended Prerequisite: Principles of Human Services*

In Counseling and Mental Health, 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.

#### Correctional Services (San Jacinto College Course)

13029700

**Grade: 11-12**

**Credit: 1**

*Recommended Prerequisite: Principles of Law, Public Safety, Corrections, and Security*

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

#### Law Enforcement II (San Jacinto College Course)

13029400

**Grade: 10-12**

**Credit: 1**

*Prerequisite: Law Enforcement I*

Law Enforcement II provides the knowledge and skills necessary to prepare for a career in law enforcement. Students will understand ethical and legal responsibilities, patrol procedures, first responder roles, telecommunications, emergency equipment operations, and courtroom testimony.

Industry Based Certification: Non-Commissioned Security Officer Level II

### Level 4

#### Forensic Science (Satisfies a science credit)

13029500

**Grade: 11-12**

**Credit: 1**

**GPA: 4.0**

*Prerequisite: Biology and Chemistry (for CTE credit); After/or concurrent with Physics for a science credit*

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 crimes scenes such as fingerprinting analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensic science.



## Law and Public Service Public Service Endorsement

The Law and Public Service Career Cluster focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and fire and emergency services.



## LEGAL STUDIES



The Legal Studies program of study introduces CTE learners to the occupations and educational opportunities related to representing clients in criminal and civil litigation and other legal proceedings, as well as assisting lawyers and preparing legal documents. This program of study explores possible specializations in a single area of law.



### Courses



Principles of Law, Public Safety, Corrections, and Security



Business Law  
Court Systems and Practices



Legal and Research Writing  
Law Enforcement I (Optional)



Practicum in Law, Public Safety, Corrections, and Security  
OR  
Career Preparation I

### Postsecondary Opportunities

#### Associates Degrees

- Legal Assistant/Paralegal

#### Bachelor's Degrees

- Legal Assistant/Paralegal

#### Master's, Doctoral, and Professional Degrees

- Law
- Intellectual Property Law
- Advanced Legal Research/Studies General
- International Law and Legal Studies

### Work-Based Learning and Expanded Learning Opportunities

#### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

##### Exploration Activities:

Criminal Justice Club, SkillsUSA

##### Work Based Learning Activities:

Attend court hearings and other legal procedures  
Participate in a mock trial program

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Lawyers	\$126,131	2,801	19%
Paralegals and Legal Assistants	\$50,544	2,837	19%

Successful completion of this program of study will fulfill requirements of the Public Service Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Legal Studies Course Information

### Level 1

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

13029200

**Grade:** 9-10

**Credit:** 1

Principles of Law, Public Safety, Corrections, and Security introduces students to professions in law enforcement, protective services, corrections, firefighting, 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, protective services, and corrections.

### Level 2

#### Business Law

13011700

**Grade:** 10-12

**Credit:** 1

*Recommended Prerequisite:* Principles of Principles of Business, Marketing, and Finance

Business Law is designed for students to analyze various aspects of the legal environment, including ethics, the judicial system, contracts, personal property, sales, negotiable instruments, agency and employment, business organization, risk management, and real property.

#### Court Systems and Practices

13029600

**Grade:** 10-12

**Credit:** 1

*Recommended Prerequisite:* Principles of Principles of Law, Public Safety, Corrections, and Security

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

#### Law Enforcement I (Optional)

13029300

**Grade:** 10-12

**Credit:** 1

*Recommended Prerequisite:* Principles of Law, Public Safety, Corrections, and Security

Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. Students will understand the role of constitutional law at local, state, and federal levels; the U.S. legal system; criminal law; and law enforcement terminology and the classification and elements of crime.

### Level 3

#### Legal and Research Writing

N1303014

**Grade:** 10-12

**Credit:** 1

*Recommended Prerequisite:* Court Systems and Practices

Legal Research and Writing provides an introduction to the study and practice of legal writing and research. This course is designed to introduce students to the methods and tools used to conduct legal research, develop and frame legal arguments, produce legal writings such as briefs, memorandums, and other legal documents, study U.S. Constitutional law, and prepare for appellate argument(s).



## Legal Studies Course Information

### Level 4

#### Practicum in Law, Public Safety, Corrections, and Security

13030100

**Grade: 12**

**Credit: 2**

*Prerequisite: 1 credit in a Law and Public Service course*

The practicum course is designed to give students supervised practical application of previously studied knowledge and skills in law, public safety, corrections, and security. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

#### Career Preparation I

12701305

**Grade: 12**

**Credit: 3**

*Age Requirement: At least 16 years old*

This course is a work-based instructional arrangement in which students will develop essential knowledge and skills through classroom instruction and on-the-job training in an approved technical-specific area. Students will receive general employability skills as a group; however, each student will have an individual training plan that will address his/her job specific knowledge and skills. The training station must be approved by the instructor. Students will be given job specific training assignments in the classroom or participate in job shadowing or an internship. This course must be a part of the student's coherent sequence of CTE courses. The recommended prerequisite is two semesters of technical training prior to or during this course of study from any CTE pathway. Students must provide their own transportation and a copy of their social security card upon employment. An application and an interview are required before enrollment in the course. Genesys Works is a paid internship with a Fortune 500 company available to seniors who meet specific criteria.



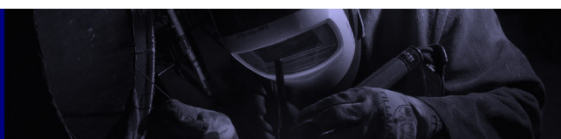
## Manufacturing Business & Industry Endorsement

The Manufacturing Career Cluster focuses on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.



### WELDING (Dual Credit)

Limited Seating



The Welding program of study focuses on the development and use of automatic and computer-controlled machines, tools, and robots that perform work on metal or plastic. CTE learners will learn how to modify parts to make or repair machine tools or maintain individual machines, and how to use hand-welding or flame-cutting equipment.



### Courses



Introduction to Welding



Welding I



Welding II (San Jacinto College Course)



Practicum in Manufacturing @ San Jacinto College  
OR  
Career Preparation I

### Postsecondary Opportunities

#### Associates Degrees

- Certified Welder or Welder Inspector
- Machine Shop Technology/Assistant
- Operations Management and Supervision
- Occupational Safety and Health Technology/Technician

#### Bachelor's Degrees

- Welding Engineering Technology/Technician
- Biomedical Technology/Technician
- Operations Management and Supervision
- Environmental Health

#### Master's, Doctoral, and Professional Degrees

- Welding Engineering Technology/Technician
- Occupational Health and Industrial Hygiene
- Operations Management and Supervision
- Environmental Health

### Industry-Based Certifications

- AWS D1.1 Structural Steel
- AWS D9.1 Sheet Metal Welding

### Work-Based Learning and Expanded Learning Opportunities

#### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

##### Exploration Activities:

SkillsUSA  
Job shadow a machinist

##### Work Based Learning Activities:

Work in a local business or  
industry apprenticeship  
Join the American Welding  
Society  
Earn industry certification

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Welders, Cutters, Solderers, and Brazers	\$41,350	6,171	9%
Welding Soldering and Brazing Machine Setters, Operators and Tenders	\$40,040	280	9%

Successful completion of this program of study will fulfill requirements of the Business and Industry Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Welding Course Information

### Level 1

#### Introduction to Welding

13032250

**Grade: 9-12**

**Credit: 1**

*Recommended Prerequisite: Algebra I*

Introduction to Welding will provide an introduction to welding technology with an emphasis on basic welding laboratory principles and operating procedures. Students will be introduced to the three basic welding processes. Topics include: industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and introduction to welding codes and standards. Introduction to Welding will provide students with the knowledge, skills, and technologies required for employment in welding industries. Students will develop knowledge and skills related to welding and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills will prepare students for future success.

### Level 2

#### Welding I

13032300

**Grade: 10-12**

**Credit: 2**

*Recommended Prerequisite: Introduction to Welding*

Welding I provides the knowledge, skills, and technologies required for employment in metal technology systems. Students will develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.

### Level 3

#### Welding II

13032400

**Grade: 11-12**

**Credit: 2**

*Prerequisite: Welding I*

Welding II builds on the knowledge and skills developed in Welding I. Students will develop advanced welding concepts and skills as related to personal and career development. Students will integrate academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

Industry Based Certifications: AWS D1.1 Structural Steel and AWS D9.1 Sheet Metal Welding

### Level 4

#### Practicum in Manufacturing @ San Jacinto College

13033000

**Grade: 12**

**Credit: 2**

*Prerequisite: Welding II*

The Practicum in Manufacturing course 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.

#### Career Preparation I

12701305

**Grade: 12**

**Credit: 3**

*Age Requirement: At least 16 years old*

This course is a work-based instructional arrangement in which students will develop essential knowledge and skills through classroom instruction and on-the-job training in an approved technical-specific area. Students will receive general employability skills as a group; however, each student will have an individual training plan that will address his/her job specific knowledge and skills. The training station must be approved by the instructor. Students will be given job specific training assignments in the classroom or participate in job shadowing or an internship. This course must be a part of the student's coherent sequence of CTE courses. The recommended prerequisite is two semesters of technical training prior to or during this course of study from any CTE pathway. Students must provide their own transportation and a copy of their social security card upon employment. An application and an interview are required before enrollment in the course. Genesys Works is a paid internship with a Fortune 500 company available to seniors who meet specific criteria.

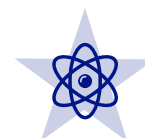


## Science, Technology, Engineering, and Mathematics STEM Endorsement

The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster focuses on planning, managing, and providing, scientific research and professional and technical services, including laboratory and testing services, and research and development services.



## BIOMEDICAL SCIENCE



The Biomedical Science program of study focuses on the study of biology and medicine in order to introduce CTE learners to the knowledge and skills necessary to be successful in the healthcare field, such as researching and diagnosing diseases, pre-existing conditions, or other determinants of health. Students may also practice patient care and communication.



### Courses



Principles of Biomedical Science (PLTW)



Human Body Systems (PLTW)



Medical Interventions (PLTW)



Practicum in STEM - Biomedical

### Postsecondary Opportunities

#### Associates Degrees

- Histologic Technician
- Clinical Laboratory Science/Medical Technology/Technologist

#### Bachelor's Degrees

- Biomedical Engineers
- Clinical Laboratory Science/Medical Technology/Technologist

#### Master's, Doctoral, and Professional Degrees

- Genetic Counseling
- Medical Scientists
- Epidemiology

### Industry-Based Certifications

- Biotechnician Assistant Credentialing Exam (BACE)

### Work-Based Learning and Expanded Learning Opportunities

#### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

##### Exploration Activities:

Health Occupation Students of America (HOSA)

##### Work Based Learning Activities:

Lab internship or shadow a healthcare or medical professional  
Earn industry certification

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Medical and Laboratory Technicians	\$37,981	1,159	28%
Biological Technicians	\$42,931	452	17%
Forensic Science Technicians	\$48,152	171	35%
Chemical Technicians	\$49,733	672	10%
Medical and Clinical Laboratory Technologies	\$58,760	1,166	35%

Successful completion of this program of study will fulfill requirements of the STEM Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Biomedical Course Information

### Level 1

#### Principles of Biomedical Science (PLTW)

N1302092

Grade: 9-12

Credit: 1

Students explore concepts of biology and medicine as they take on roles of different medical professionals to solve real-world problems. Over the course of the year, students are challenged in various scenarios including investigating a crime scene to solve a mystery, diagnosing and proposing treatment to patients in a family medical practice, to tracking down and containing a medical outbreak at a local hospital, stabilizing a patient during an emergency, and collaborating with others to design solutions to local and global medical problems.

### Level 2

#### Human Body Systems (PLTW)

N1302093

Grade: 10-12

Credit: 1

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis in the body. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

#### Medical Interventions (PLTW)

N1302094

Grade: 10-12

Credit: 1

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

### Level 4

#### Practicum in Science, Technology, Engineering, and Math - Biomedical

13037400

Grade: 12

Credit: 2

*Prerequisite: Algebra I and Geometry; two STEM Career Cluster Courses*

This practicum in Science, Technology, Engineering, and Mathematics 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. Although periods should be adhered to in order to provide students with experience, completion of skill sets may be demonstrated throughout the practicum; thus, units do not have to be delivered.

Industry Based Certification: Biotechnician Assistant Credentialing Exam (BACE)



## Science, Technology, Engineering, and Mathematics STEM Endorsement

The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster focuses on planning, managing, and providing, scientific research and professional and technical services, including laboratory and testing services, and research and development services.



## CYBERSECURITY



The Cybersecurity program of study includes the occupations and educational opportunities related to planning, implementing, upgrading, or monitoring security measure for the protection of computer networks and information. This program of study may also include exploration into responding to computer security breaches and virus and administering network security measures.



### Courses



Fundamentals of Computer Science



AP Computer Science Principles



Networking



Practicum in STEM - Cybersecurity

### Postsecondary Opportunities

#### Associates Degrees

- System Networking, and LAN/WAN Management
- Information Technology
- Computer and Information Sciences, General
- Computer Science

#### Bachelor's Degrees

- Computer Systems Networking and Telecommunications
- Computer Systems Networking and Telecommunications
- Computer and Information Sciences, General
- Computer Science

#### Master's, Doctoral, and Professional Degrees

- Computer Systems Analysis/Analyst
- Information Technology
- Computer Information Sciences, General
- Computer Science

### Industry-Based Certifications

- CompTIA Network+
- CompTIA Security+

### Work-Based Learning and Expanded Learning Opportunities

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
<b>Exploration Activities:</b> Texas Technology Students Association (TSA)	<b>Work Based Learning Activities:</b> Earn industry certification

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Information Security Analysts	\$91,915	814	29%
Network and Computer System Administrators	\$82,597	2,814	19%
Computer System Analysts	\$87,568	5,937	29%

Successful completed of this program of study will fulfill requirements of the STEM Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Cybersecurity Course Information

### Level 1

#### Fundamentals of Computer Science

03580140

**Grade: 9-10**

**Credit: 1**

Fundamentals of Computer Science is intended as a first course for those students just beginning the study of computer science. Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn the problem-solving and reasoning skills that are the foundation of computer science. 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. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations and concepts.

### Level 2

#### AP Computer Science Principles

A3580300

**Grade: 9-12**

**Credit: 1**

**GPA: 6.0**

*Recommended Prerequisite: Algebra I*

*Advanced Placement Test offered*

Computer science is everywhere, from smartphones and video games to music, medicine, and much more. AP Computer Science Principles (AP CSP) can help students understand how computing and technology influence the world around them. Learn how to creatively address real-world issues while using the same tools and processes that artists, writers, computer scientists, and engineers use to bring ideas to life. If you have big ideas and an interest in using technology and creativity to realize those ideas and solve problems, computer science is for you. AP Computer Science Principles can lead to 49 college majors and 130 career areas.

AP Computer Science Principles explores the fundamentals of computing, including problem solving, working with data, understanding the internet, cybersecurity and programming. It will broaden students' understanding of computer science for use in a diversity of majors and careers.

Students must have knowledge of basic algebra, experience in problem solving and competence with written communication.

### Level 3

#### Networking

13027400

**Grade: 10-12**

**Credit: 1**

In Networking, students will develop knowledge of the concepts and skills related to 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.

Industry Based Certification: CompTIA Network+

### Level 4

#### Practicum in Science, Technology, Engineering, and Math - Cybersecurity

13037400

**Grade: 12**

**Credit: 2**

*Prerequisite: Algebra I and Geometry; two STEM Career Cluster Courses*

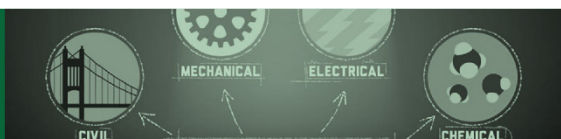
This practicum in Science, Technology, Engineering, and Mathematics is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Although periods should be adhered to in order to provide students with experience, completion of skill sets may be demonstrated throughout the practicum; thus, units do not have to be delivered.

Industry Based Certification: CompTIA Security+



## Science, Technology, Engineering, and Mathematics STEM Endorsement

The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster focuses on planning, managing, and providing, scientific research and professional and technical services, including laboratory and testing services, and research and development services.



The Engineering program of study focuses on the design, development, and use of engines, machines, and structures. CTE learners will learn how to apply science, mathematical methods, and empirical evidence to the innovation, design, construction, operation, and maintenance of different manufacturing systems.



### Courses



Introduction to Engineering Design (PLTW)  
Introduction to Unmanned Aerial Vehicles (UAV)



Engineering Science



Engineering Design & Development (PLTW)



Practicum in STEM - Engineering

### Postsecondary Opportunities

#### Associates Degrees

- Electrical and Electronics Engineering
- Drafting and Design Technology/ Technician, General
- Engineering Technology

#### Bachelor's Degrees

- Electrical and Electronics Engineering
- CAD/CADD Drafting and/or Design Technology/ Technician
- Bioengineering and Biomedical Engineering
- Construction Engineering Technology/ Technician

#### Master's, Doctoral, and Professional Degrees

- Electrical and Electronics Engineering
- Mechanical Engineering
- Bioengineering and Biomedical Engineering

### Industry-Based Certifications

- Autodesk Associate (Certified User) AutoCAD
- FAA Part 107 Remote Drone Pilot

### Work-Based Learning and Expanded Learning Opportunities

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
<b>Exploration Activities:</b> SkillsUSA	<b>Work Based Learning Activities:</b> Earn industry certification Engineering internship

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Aerospace Engineers	\$110,843	481	9%
Industrial Engineers	\$97,074	1,263	10%
Mechanical Engineers	\$91,707	1,535	11%
Chemical Engineers	\$112,819	474	9%
Electrical Engineers	\$98,405	1,137	10%

Successful completion of this program of study will fulfill requirements of the STEM Endorsement.  
Approved Statewide Program of Study: C. E. King High School – 2023-24



## Engineering Course Information

### Level 1

#### Introduction to Engineering Design (PLTW)

N1303742

**Grade: 9-10**

**Credit: 1**

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software, and use an engineering notebook to document their work.

#### Introduction to Unmanned Aerial Vehicles (UAV)

N1304670

**Grade: 9-12**

**Credit: 1**

The Introduction to Unmanned Aerial Vehicle (UAV) Flight course is designed to prepare students for entry-level employment or continuing education in piloting UAV operations. Principles of UAV is designed to instruct students in UAV flight navigation, industry laws and regulations, and safety regulations. Students are also exposed to mission planning procedures and environmental and human factors involved in the UAV industry.

### Level 2

#### Engineering Science (Satisfies a science credit)

13037500

**Grade: 10-12**

**Credit: 1**

*Prerequisite: Algebra I and Biology, Chemistry, IPC, OR Physics*

Students enrolled in the Engineering Science course explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

### Level 3

#### Engineering Design & Development (PLTW)

N1303749

**Grade: 11-12**

**Credit: 1**

*Prerequisite: Engineering Science*

The knowledge and skills students acquire throughout engineering come together in Engineering Design and Development as they identify an issue and then research, design, and test a solution, ultimately presenting their solution. Students apply the professional skills they have developed to document a design process to standards, completing Engineering Design and Development ready to take on any post-secondary program or career.

### Level 4

#### Practicum in Science, Technology, Engineering, and Math - Engineering

13037400

**Grade: 12**

**Credit: 2**

*Prerequisite: Algebra I and Geometry; two STEM Career Cluster Courses*

This Practicum in Science, Technology, Engineering, and Mathematics 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. Although periods should be adhered to in order to provide students with experience, completion of skill sets may be demonstrated throughout the practicum; thus, units do not have to be delivered. This course will focus on Drones.

Industry Based Certification: Autodesk Associate (Certified User) AutoCAD

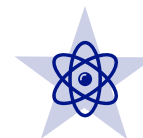


## Science, Technology, Engineering, and Mathematics STEM Endorsement

The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster focuses on planning, managing, and providing, scientific research and professional and technical services, including laboratory and testing services, and research and development services.



### PROGRAMMING & SOFTWARE DEVELOPMENT



The Programming and Software Development program of study explores the occupations and education opportunities associated with researching, designing, developing, and testing operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computer applications. This program of study may also include exploration into creating, modifying, and testing the codes, forms, and script that allow computer applications to run.



### Courses

	Dual Credit Pathway	KHS Pathway
9 <sup>th</sup> Grade	Fundamentals of Computer Science Game Programming and Design	Fundamentals of Computer Science
10 <sup>th</sup> Grade	AP Computer Science Principles	Game Programming and Design
11 <sup>th</sup> Grade	Computer Science I (San Jacinto College Course) Computer Science II (San Jacinto College Course)	Mobile App Development
12 <sup>th</sup> Grade	Practicum in STEM - Programming	Practicum in STEM - Programming

### Postsecondary Opportunities

#### Associates Degrees

- Computer Programming/Programmer General
- Computer Software Engineer
- Computer Science
- Certified Software Analyst

#### Bachelor's Degrees

- Management Information Systems, General
- Computer Software Engineer
- Computer Science
- Information Science/Studies

#### Master's, Doctoral, and Professional Degrees

- Computer Software Engineer
- Computer Science
- Information Science/Studies

### Industry-Based Certifications

- Certified User: Programmer
- Oracle Certified Associate Java SE 8 Programmer

### Work-Based Learning and Expanded Learning Opportunities

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES	
<b>Exploration Activities:</b> Texas Technology Students Association (TSA)	<b>Work Based Learning Activities:</b> Earn industry certification

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Software Developer, Systems Software	\$103,334	2,985	25%
Software Developers, Applications	\$104,499	6,311	30%
Computer Programmers	\$79,893	1,454	9%

Successful completion of this program of study will fulfill requirements of the STEM Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Programming and Software Development Course Information

### Level 1

#### Fundamentals of Computer Science

03580140

**Grade: 9-10**

**Credit: 1**

Fundamentals of Computer Science is intended as a first course for those students just beginning the study of computer science. Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn the problem-solving and reasoning skills that are the foundation of computer science. 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. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations and concepts.

### Level 2

#### AP Computer Science Principles

A3580300

**Grade: 9-12**

**Credit: 1**

**GPA: 6.0**

*Recommended Prerequisite: Algebra I*

*Advanced Placement Test offered*

Computer science is everywhere, from smartphones and video games to music, medicine, and much more. AP Computer Science Principles (AP CSP) can help students understand how computing and technology influence the world around them. Learn how to creatively address real-world issues while using the same tools and processes that artists, writers, computer scientists, and engineers use to bring ideas to life. If you have big ideas and an interest in using technology and creativity to realize those ideas and solve problems, computer science is for you. AP Computer Science Principles can lead to 49 college majors and 130 career areas.

AP Computer Science Principles explores the fundamentals of computing, including problem solving, working with data, understanding the internet, cybersecurity and programming. It will broaden students' understanding of computer science for use in a diversity of majors and careers.

Students must have knowledge of basic algebra, experience in problem solving and competence with written communication.

#### Computer Science I (San Jacinto College Course)

03580200

**Grade: 11-12**

**Credit: 1**

*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. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts.

#### Game Programming and Design

03580380

**Grade: 9-12**

**Credit: 1**

*Prerequisite: Algebra I*

Game Programming and Design will foster student creativity and innovation by presenting students with 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 gaming problems. Through data analysis, students will include the identification of task requirements, plan search strategies, and use programming concepts to access, analyze, and evaluate information needed to design games. By acquiring programming 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. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect.



## Programming and Software Development Course Information

### Level 3

#### Computer Science II (San Jacinto College Course)

03580300

**Grade: 11-12**

**Credit: 1**

*Prerequisite: Algebra I AND Fundamentals of Computer Science or Computer Science I*

Computer Science II 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. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of computer science through the study of technology operations, systems, and concepts.

#### Mobile App Development

03580390

**Grade: 11-12**

**Credit: 1**

*Prerequisite: Algebra I*

Mobile Application Development will foster students' creativity and innovation by presenting opportunities to design, implement, and deliver meaningful projects using mobile computing devices. Students will collaborate with one another, their instructor, and various electronic communities to solve problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use software development concepts to access, analyze, and evaluate information needed to program mobile devices. By using software design 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. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of mobile application development through the study of development platforms, programming languages, and software design standards.

### Level 4

#### Practicum in Science, Technology, Engineering, and Math - Programming

13037400

**Grade: 12**

**Credit: 2**

*Prerequisite: Algebra I and Geometry; two STEM Career Cluster Courses*

This practicum in Science, Technology, Engineering, and Mathematics 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. Although periods should be adhered to in order to provide students with experience, completion of skill sets may be demonstrated throughout the practicum; thus, units do not have to be delivered.

Industry Based Certification Offered: Certified User: Programmer and/or Oracle Certified Associate Java SE 8 Programmer



## Transportation, Distribution & Logistics Business & Industry Endorsement

The Transportation, Distribution, and Logistics Career Cluster focuses on careers in planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water. It also includes related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.



### AUTOMOTIVE

Limited Seating



The Automotive program of study teaches CTE learners how to repair and refinish automobiles and service various types of vehicles. CTE learners may learn to collect payment for services or supplies and perform typical vehicle maintenance procedures such as lubrication, oil changes, installation of antifreeze, or replacement of accessories like wiper blades or tires.



### Courses



Principles of Transportation Systems



Automotive Basics



Automotive Technology I: Maintenance and Light Repair



Automotive Technology II: Automotive Service  
Practicum in Transportation Systems (Future Course)  
OR  
Career Preparation I

### Postsecondary Opportunities

#### Associates Degrees

- Autobody/ Collision and Repair Technology/ Technician
- Medium/Heavy Vehicle and Truck Technology/ Technician
- Mechanical Engineering/ Mechanical Technology/ Technician

#### Bachelor's Degrees

- Mechanical Engineering/ Mechanical Technology/ Technician

#### Master's, Doctoral, and Professional Degrees

- Mechanical Engineering

### Industry-Based Certifications

- ASE Entry Level Automobile Maintenance and Light Repair (MR)

### Work-Based Learning and Expanded Learning Opportunities

#### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

**Exploration Activities:**  
SkillsUSA

**Work Based Learning  
Activities:**

Work at a local automotive repair  
or body shop  
Earn industry certification

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Automotive Body and Related Repairers	\$40,144	1,456	25%
Automotive Service Technician and Mechanics	\$38,459	208	25%

Successful completion of this program of study will fulfill requirements of the Business and Industry Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Automotive Course Information

### Level 1

#### Principles of Transportation Systems

13039250

**Grade:** 9-12

**Credit:** 1

In Principles of Transportation Systems, students will gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This knowledge includes the history, laws and regulations, and common practices used in the transportation industry. Students should apply knowledge and skills in the application, design, and production of technology as it relates to the transportation industries. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings.

### Level 2

#### Automotive Basics

13039550

**Grade:** 10-12

**Credit:** 1

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.

### Level 3

#### Automotive Technology I: Maintenance and Light Repair

13039600

**Grade:** 10-12

**Credit:** 2

*Prerequisite: Automotive Basics*

Automotive Technology I: Maintenance and Light Repair includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. This course includes applicable safety and environmental rules and regulations. In Automotive Technology I: Maintenance and Light Repair, 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.



## Automotive Course Information

Level 4

### Automotive Technology II: Automotive Service

13039700

**Grade: 11-12**

**Credit: 2**

*Prerequisite: Automotive Technology I: Maintenance and Light Repair*

Automotive Technology II: Automotive Service includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. Automotive Technology II: Automotive Service includes applicable safety and environmental rules and regulations. In this course, 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.

Industry Based Certification: ASE Entry Level Automobile Maintenance and Light Repair (MR)

### Practicum in Transportation Systems

13040450

**Grade: 12**

**Credit: 2**

*Prerequisite: 1 credit in a Transportation, Distribution & Logistics course*

Practicum in Transportation Systems 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.

### Career Preparation I

12701305

**Grade: 12**

**Credit: 3**

*Age Requirement: At least 16 years old*

This course is a work-based instructional arrangement in which students will develop essential knowledge and skills through classroom instruction and on-the-job training in an approved technical-specific area. Students will receive general employability skills as a group; however, each student will have an individual training plan that will address his/her job specific knowledge and skills. The training station must be approved by the instructor. Students will be given job specific training assignments in the classroom or participate in job shadowing or an internship. This course must be a part of the student's coherent sequence of CTE courses. The recommended prerequisite is two semesters of technical training prior to or during this course of study from any CTE pathway. Students must provide their own transportation and a copy of their social security card upon employment. An application and an interview are required before enrollment in the course. Genesys Works is a paid internship with a Fortune 500 company available to seniors who meet specific criteria.



## Transportation, Distribution & Logistics Business & Industry Endorsement

The Transportation, Distribution, and Logistics Career Cluster focuses on careers in planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water. It also includes related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.



## DIESEL & HEAVY EQUIPMENT (DUAL CREDIT)



The Diesel and Heavy Equipment program of study teaches students to diagnose, repair, modify, or redo mechanical and hydraulic equipment on crane, bulldozer, grader, conveyor, construction equipment, bus, and truck diesel engines.



### Courses



Principles of Transportation Systems



Automotive Basics



Diesel Equipment Technology I @ San Jacinto College



Diesel Equipment Technology II @ San Jacinto College  
Practicum in Transportation Systems @ San Jacinto College

### Postsecondary Opportunities

#### Associates Degrees

- Diesel Mechanics Technology/ Technician
- Heavy Equipment Maintenance Technology/Technician

### Work-Based Learning and Expanded Learning Opportunities

#### WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

**Exploration Activities:**  
SkillsUSA

**Work Based Learning  
Activities:**

Volunteer or work part-time for a repair shop that works on engines

### Aligned Occupations

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Bus and Truck Mechanics and Diesel Engine Specialists	\$44,574	3,150	21%
Mobile Heavy Equipment Mechanics, Except Engines	\$47,299	1,627	16%

Successful completion of this program of study will fulfill requirements of the Business and Industry Endorsement.  
Approved Statewide Program of Study. C. E. King High School – 2023-24



## Diesel & Heavy Equipment Course Information

### Level 1

#### Principles of Transportation Systems

13039250

Grade: 9-12

Credit: 1

In Principles of Transportation Systems, students will gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This knowledge includes the history, laws and regulations, and common practices used in the transportation industry. Students should apply knowledge and skills in the application, design, and production of technology as it relates to the transportation industries. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings.

### Level 2

#### Automotive Basics

13039550

Grade: 10-12

Credit: 1

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.

#### Diesel Equipment Technology I @ San Jacinto College

13040150

Grade: 11-12

Credit: 2

*Prerequisite: Principles of Transportation Systems and meet the San Jacinto College entrance requirements*

Diesel Equipment Technology I includes knowledge of the function and maintenance of diesel systems. Rapid advances in diesel technology have created new career opportunities and demands in the transportation industry. This course provides the knowledge, skills, and technologies required for employment in transportation systems.

### Level 3

#### Diesel Equipment Technology II @ San Jacinto College

13040160

Grade: 11-12

Credit: 2

*Prerequisite: Diesel Equipment Technology I and meet the San Jacinto College entrance requirements*

Diesel Equipment Technology II includes knowledge of the function, diagnosis, and service of diesel equipment systems. Rapid advances in diesel technology have created new career opportunities and demands in the transportation industry. This course provides the advanced knowledge, skills, and technologies required for employment in transportation systems.

### Level 4

#### Practicum in Transportation Systems @ San Jacinto College

13040450

Grade: 12

Credit: 2

*Prerequisite: 1 credit in a Transportation, Distribution & Logistics course*

Practicum in Transportation Systems 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.

## English Language Arts

Foundation/Required for All Endorsements	Advanced Academics
English I	Pre-AP English I
English II	Pre-AP English II
English III Language and Composition	AP English III Language and Composition
English IV Literature and Composition or College Preparatory Course ELA	AP English IV Literature and Composition or College Preparatory Course ELA or OnRamps Dual Credit English IV or English IV Dual Credit

\* In order to earn an Arts and Humanities Endorsement, students must take four English elective courses in addition to English I, English II, and English III Language and Composition (see page 8).

\*\* In order to earn a Business and Industry Endorsement, students must take four Journalism elective courses (see page 9).

### College Preparatory Course English Language Arts

CP110100

**Grade: 10-12**

**Credit: 0.5 – 1**

**GPA: 4.0**

*Prerequisite: English I*

Students will learn to investigate academic texts, construct supported interpretations and arguments for an authentic audience, and acquire academic habits of thought. Reading instruction will focus on developing critical reading skills for comprehension, interpretation, and analysis. In writing, students will develop skills through composing with specific purpose, situation, genre, and audience in mind. Students will write a variety of effective formal and informal text. To learn to integrate reading and writing, students will use an inquiry approach to analyze, synthesize, and make value judgments regarding text and writing. This course is designed to prepare students for college-level reading and writing intensive courses. Successful completion of this course, as defined by the memorandum of understanding (MOU) with the partnering institution(s), grants the student an exemption to TSI requirements for reading and writing at the partnering institution(s).

### Communications Applications Dual Credit (San Jacinto College)

03241400

**Grade: 11**

**Credit: 0.5**

**GPA: 6.0**

This introductory class in Public Speaking offers training in principles of Speech Communication and delivery as well as an introduction to various types of speaking situations.

### Creative Writing

03221200

**Grade: 11-12**

**Credit: 0.5 – 1**

The study of creative writing allows high school students to earn one-half to 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.

### English I

03220100

**Grade: 9**

**Credit: 1**

**GPA: 4.0**

English I is a study in composition, literature and grammar. Students will complete essays as they analyze and respond to the literature studied. Students will complete independent reading of classical and multicultural works to strengthen their comprehension. Grammar, writing mechanics, and research techniques will be addressed through direct instruction.

### Pre-AP English I

03220100

**Grade: 9**

**Credit: 1**

**GPA: 5.0**

Pre-Advanced Placement English I is a course designed to prepare students for participation in Advanced Placement (AP) English. Students will experience a greater depth of study of the English language. Emphasis is placed on a high level of written work demonstrating in-depth literary analysis through completion of essays and commentaries. Students will strengthen language comprehension and vocabulary skill through readings in prose, poetry and drama. Library research and oral presentation skills are also major components.

<b>English II</b>	<b>03220200</b>
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<b>Grade: 10</b>	<b>Credit: 1</b>	<b>GPA: 4.0</b>
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English II involves an intensive study of multi-paragraph papers in descriptive, narrative, classificatory, and evaluative modes; traditional and integrated grammar, vocabulary, mechanics; oral communication skills; introduction to research skills; and literature.

<b>Pre-AP English II</b>	<b>03220200</b>
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<b>Grade: 10</b>	<b>Credit: 1</b>	<b>GPA: 5.0</b>
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*Prerequisite: English I or Pre-AP English I; approved application and signed contract*

Pre-AP English II is a survey course of classical works tracing the development of the hero/heroine in literature. Included with the study of these classics is a review of grammatical skills and usage, an in-depth study of writing skills, a research paper, and a study of vocabulary words and roots. The academic rigor of this course and the vertical alignment of all Pre-AP courses help to prepare students for the AP exams given in grades 11 and 12 should students decide to sit for those exams.

<b>English III</b>	<b>03220300</b>
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<b>Grade: 11</b>	<b>Credit: 1</b>	<b>GPA: 4.0</b>
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English III includes an intensive unit covering the modes and purposes of writing, the development of the multi-paragraph paper, the building of vocabulary skills, literary analysis, and an emphasis on grammar and usage skills. Emphasis is also placed on the process of writing the research paper. The literature study surveys major authors and periods in American literature.

<b>AP English III Language and Composition</b>	<b>A3220100</b>
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<b>Grade: 11</b>	<b>Credit: 1</b>	<b>GPA: 6.0</b>
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The AP English Language and Composition course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based argumentative essays. Students evaluate, synthesize, and cite research to support their arguments. Throughout the course, students develop a personal style by making appropriate grammatical choices. Additionally, students read and analyze the effects of rhetorical elements in non-fiction texts, including graphic images, from many disciplines and historical periods. The academic rigor of this course and the vertical alignment of all Pre-AP courses help to prepare students for Advanced Placement exams that result in college credit by earning a qualifying score.

<b>English IV</b>	<b>03220400</b>
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<b>Grade: 12</b>	<b>Credit: 1</b>	<b>GPA: 4.0</b>
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English IV focuses on the development of analytical and synthesizing skills through emphasis on student-generated learning. The curriculum reviews the development of the English language, and surveys British Literature from the Anglo-Saxon Era to modernism. The student reviews and refines language, grammar, and research skills within the context of writing in various modes for diverse purposes. Opportunities are offered for improving speaking skills. This course provides the student with the necessary skills for success in college literature and composition courses.

<b>AP English IV Literature and Composition</b>	<b>A3220200</b>
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<b>Grade: 12</b>	<b>Credit: 1</b>	<b>GPA: 6.0</b>
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English IV Advanced Placement begins with an intensive review of literary terms and rhetorical skills introduced in AP English III, as well as a thorough overview of the various forms, styles, and periods of literature. Throughout the course, students will be exposed to various fictional and creative texts (novels, poetry, dramas, short stories, etc.), primarily from Europe, which they will be expected to analyze and discuss thoroughly, through both objective and subjective inquiry. At the end of the year, successful students will be able to interpret an unfamiliar piece of fiction perceptively, write cogent essays in a timed writing situation, and use higher-level verbal reasoning skills. The academic rigor of this course and the vertical alignment of all Pre-AP courses help to prepare students for Advanced Placement exams that result in college credit by earning a qualifying score.

<b>English IV Dual Credit (San Jacinto College – ENG 1301/1302)</b>	<b>03220400</b>
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<b>Grade: 12</b>	<b>Credit: High School and College</b>	<b>GPA: 6.0</b>
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Students enroll in English 1301 and 1302 at San Jacinto College North. Students receive one high school English IV credit and six semester hours of college credit. Participating students are responsible for tuition, fees, and books for these courses.

**English Speakers of Other Languages (ESOL) I****03200600****Grade: 9-12****Credit: 1****GPA: 4.0**

Students enrolled in English Speakers of Other Languages I (ESOL I) continue to increase and refine their communication skills. The seven strands of this course mirror the essential knowledge and skills for English language arts and reading, which are intended to be integrated for instructional purposes and are recursive in nature. Strands include the four domains of language (listening, speaking, reading, and writing) and their application in order to accelerate the acquisition of language skills so that students develop high levels of social and academic language proficiency.

**English Speakers of Other Languages (ESOL) II****03200700****Grade: 10-12****Credit: 1****GPA: 4.0**

Students enrolled in English Speakers of Other Languages II (ESOL 2) continue to increase and refine their communication skills. The seven strands of this course mirror the essential knowledge and skills for English language arts and reading, which are intended to be integrated for instructional purposes and are recursive in nature. Strands include the four domains of language (listening, speaking, reading, and writing) and their application in order to accelerate the acquisition of language skills so that students develop high levels of social and academic language proficiency.

**Journalism****03230100****Grade: 9-12****Credit: 1**

This is the foundation course for high school publications laying the groundwork for all yearbook and newspaper production. Students are expected to plan, draft and complete written compositions on a regular basis. Writing, technology and visual and electronic media are used as tools for learning as students create, edit, critique, write and produce effective communications. Students will learn journalistic texts and learn the principles of publishing. This course will be the study of journalism and the role which media plays in society. Students will use desktop publishing software; Microsoft Publisher. Students may contribute to the production of publications.

**Journalism: Yearbook Production I****03230110****Grade: 10-12****Credit: 1***Prerequisite: Journalism, Photojournalism, or Advisor approval*

Yearbook Production is designed for students who are interested in studying the production of the school yearbook. The curriculum includes the following: group cooperative effort in the production of a yearbook; yearbook development within time constraints and budget limitations; financial responsibility in production and publication of a yearbook; planning and implementing advertising and circulation campaigns; cropping photographs for overall page planning; writing and editing copy; producing effective graphic art; writing effective headlines; and editing/proofreading. Students plan, report, edit, design, layout, finance, produce, and circulate a yearly publication, THE PANTHER. Students will use desktop publishing software: Microsoft Publisher, InDesign and Taylor Elitevision.

**Journalism: Yearbook Production II****03230120****Grade: 11-12****Credit: 1***Prerequisite: Yearbook Production I or Advisor approval*

Yearbook Production is designed for students who are interested in studying the production of the school yearbook. The curriculum includes the following: group cooperative effort in the production of a yearbook; yearbook development within time constraints and budget limitations; financial responsibility in production and publication of a yearbook; planning and implementing advertising and circulation campaigns; cropping photographs for overall page planning; writing and editing copy; producing effective graphic art; writing effective headlines; and editing/proofreading. Students plan, report, edit, design, layout, finance, produce, and circulate a yearly publication, THE PANTHER. Students will use desktop publishing software: Microsoft Publisher, InDesign and Taylor Elitevision.

**Journalism: Yearbook Production III****03230130****Grade: 12****Credit: 1***Prerequisite: Yearbook Production II or Advisor approval*

Yearbook Production is designed for students who are interested in studying the production of the school yearbook. The curriculum includes the following: group cooperative effort in the production of a yearbook; yearbook development within time constraints and budget limitations; financial responsibility in production and publication of a yearbook; planning and implementing advertising and circulation campaigns; cropping photographs for overall page planning; writing and editing copy; producing effective graphic art; writing effective headlines; and editing/proofreading. Students plan, report, edit, design, layout, finance, produce, and circulate a yearly publication, THE PANTHER. Students will use desktop publishing software: Microsoft Publisher, InDesign and Taylor Elitevision.

**Newcomers English Language Development (A&B)****N1280042/N1280043****Grade: 9-12****Credit: 1****GPA: 4.0**

The Newcomers English Language Development courses are designed to provide instructional opportunities for secondary level recent immigrant students with little or no English proficiency. The development of communicative competence occurs through targeted lessons based on students' needs.

**Newcomers English Language Development (ELD) II****TBD****Grade: 10-12****Credit: 1****GPA: 4.0***Prerequisite: TBD*

TBD

**Photojournalism****03230800****Grade: 10-12****Credit: 1***Prerequisite: Journalism*

Photojournalism provides the opportunity for development of photography skills related to newspaper or yearbook production. Students practice and refine their skills in taking pictures, processing film, making prints, and cropping photos for editing and composition. Students develop proficiency in basic black-and-white darkroom procedures. Students must provide additional supplies not furnished by the school. The cost of these supplies is approximately \$50. Darkroom supplies may be required second semester, approximately \$30. This class will review the history of photography and the role it plays in society. Students will learn camera parts and operation, photographic composition, black and white processing and printing.

**Practical Writing****03221300****Grade: 10-12****Credit: 0.5 – 1**

The study of writing allows high school students to earn one-half to one credit while developing skills necessary for practical writing. This course emphasizes skill in the use of conventions and mechanics of written English, the appropriate and effective application of English grammar, the reading comprehension of informational text, and the effective use of vocabulary. Students are expected to understand the recursive nature of reading and writing. Evaluation of students' own writing as well as the writing of others ensures that students completing this course are able to analyze and evaluate their writing.

**University of Texas OnRamps – English IV****UE431A/UE431B****Grade: 12****Credit: 1 (possibility of earning 6 hrs. college credit if all requirements are met)****GPA: 6.0**

OnRamps is a dual-enrollment program designed to increase the number and diversity of students who engage in college courses designed by faculty at The University of Texas at Austin and facilitated by high school teachers. During the first semester, the student must complete the coursework and meet the academic requirements to earn college credit.

OnRamps requires a one-time, annual non-refundable fee per student for each course. The fee is due prior to the beginning of the fall semester. The fee includes access to course materials, the learning management system, and technology tools.

0.5 high school credit is awarded for Semester A and 0.5 high school credit is awarded for Semester B. Successful completion of Semester A earns 3 college credits in ENG 1301. Successful completion of Semester B earns 3 college credits in ENG 1302.

**PSAT/SAT/ACT Prep: Independent Study in English****03221800****Grade: 9-12****Credit: 0.5 – 1**

The SAT Prep course is designed to help students prepare for the rigors of taking the PSAT and/or SAT offered by the College Board. The primary goal is to identify and implement test taking strategies using prerequisite knowledge to increase student performance. The bulk of the class work will be centered upon drilling with practice and released PSAT/SAT exams, while simultaneously attempting to maximize the effectiveness of such drilling through the identification of individual students' specific areas of growth and opportunity. At the end of the course, students will be able to complete a PSAT/SAT exam with greater success and higher scores.

**Social Intelligence for ESL Students****N1280041****Grade: 9-12****Credit: 0.5 – 1**

This course provides ESL students with the necessary knowledge and skills required for successful adaptation to a new community and educational environment. Students will learn skills to navigate through social situations, such as conflict resolution, communication, decision making, cultural awareness, etc.

## Fine Arts



## Art

Fine Arts and Humanities Endorsement				
Career Pathway	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Art	Art I	Art II – Ceramics I	Art III – Sculpture II	Art IV – Sculpture III OR AP Art & Design
		Art II – Drawing I	Art III – Painting II	Art IV – Painting III OR AP Art & Design

### Art I 03500100

**Grade: 9-12** **Credit: 1**

Art I is the foundation course for all other Art Classes. This entry-level art course allows students to explore the art elements for line, shape, value, texture, color, form and space while applying the principles of art to develop and create original artworks using a variety of art media. Students will analyze, interpret, and evaluate their own artwork as well as those of well-known artists comparing the different styles and techniques used throughout the various periods of art history. This introductory art course is designed for students to experiment with a wide variety of media and skills while providing an overview of the conceptual relationship of art to other subject areas.

### Art II – Ceramics I 03500900

**Grade: 10-12** **Credit: 1**

Students may take either Art II Drawing or Ceramics for credit, but not both.

The Ceramics course is designed for students who are interested in the use of clay and associated materials to create 3D art pieces. The Ceramics class will utilize principles of design as they relate to the integration of depth and space, volume and surface.

### Art II – Drawing I 03500500

**Grade: 10-12** **Credit: 1**

Students may take either Art II Drawing or Ceramics for credit, but not both.

This course is designed to teach mastery of academic drawing and two dimensional design. It will further the art experience through a variety of drawing media, techniques and vocabulary. Students will learn traditional drawing as well as experimental design techniques using wet and dry media. Art history, aesthetic awareness and appreciation, and the critical evaluation of art are integrated into the learning.

### Art III – Painting II 03501400

**Grade: 10-12** **Credit: 1**

*Prerequisite: Art II – Drawing*

Art III - Painting builds upon the skills learned in Art II - Drawing. This course is intended for art students who are interested in developing a portfolio in painting and two-dimensional design. A strong emphasis will be placed on learning painting techniques and styles in acrylic and watercolor, and students will continue to develop drawing and two-dimensional design skills to create original artworks. Art history, aesthetics, and criticism are included. Students may begin developing their own personal art styles throughout this course.

### Art III – Sculpture II 03501900

**Grade: 11-12** **Credit 1**

*Prerequisite: Art II - Ceramics*

Art III Sculpture builds upon the skills and concepts explored in Art II - Ceramics. This course is designed for students who are interested in the use of clay and other materials to create 3D art pieces. The Sculpture class will utilize principles of design as they relate to the integration of depth and space, volume and surface. Art history, aesthetics, and criticism are included. Students may begin developing their own personal art styles throughout this course.

**Art IV – Painting III****03502400****Grade: 12****Credit 1***Prerequisite: Art III – Painting I*

Art IV - Painting is for the student who has successfully completed Art III - Painting and wishes to continue his or her investigation of painting and two dimensional design. Students will continue to develop a personal style and a portfolio of two-dimensional artwork.

**Art IV – Sculpture III****03502800****Grade: 12****Credit 1***Prerequisite: Art III - Sculpture*

Art IV - Sculpture is for the student who has successfully completed Art III - Sculpture and wishes to further his or her investigation of sculpture and three dimensional design. Students will continue to develop a personal style and a portfolio of three-dimensional artwork.

**AP Art & Design****2D Art: A3500300****3D Art: A3500500****Grade: 12****Credit: 1****GPA: 6.0***Prerequisite: Art III and approval from instructor*

The AP Art and Design course is designed for students who are seriously interested in the practical experience in art. In this class, students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year. Portfolios include works of art and design, process documentation, and written information about the work presented. In May, student submit portfolios for evaluation based on specific criteria, which include skillful synthesis of materials, processes, and ideas and sustained investigation through practice, experimentation, and revision, guided by questions. Students will choose between the three AP Portfolio exams—AP 2D Art & Design, AP 3-D Art & Design, and AP Drawing. Each of these corresponds to an introductory college art course for which the student could earn college credit, upon successful completion of the course and a passing score on the portfolio exam.



## Band

Fine Arts and Humanities Endorsement				
Career Pathway	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Band	Band I	Band II	Band III	Band IV
	Color Guard/Winter Guard I	Color Guard/Winter Guard II	Color Guard/Winter Guard III	Color Guard/Winter Guard IV
	Jazz Band I	Jazz Band II	Jazz Band III	Jazz Band IV
	Orchestra I	Orchestra II	Orchestra III	Orchestra IV
	Percussion I	Percussion II	Percussion III	Percussion IV

### Band

During the fall semester, all band students are members of the marching band that rehearses daily after school hours and performs at all varsity football games, selected competitions, and local school and community events. Students in Marching Band in the fall semester may substitute a maximum of 1 units for the physical education graduation requirement with the remaining Band units applying toward Fine Arts and/or elective graduation requirements. Placement in a band ensemble is determined by an audition which includes students' technical proficiency, musical ability, and sight reading skills. Other factors include reliability, academic eligibility, ensemble instrumentation limitations, and personal commitment to ensemble requirements; placement is not necessarily related to the number of years in band. All ensembles perform at numerous concerts, community events, competitions, and festivals that require frequent rehearsals and performances after school hours. Attendance is required at all after school rehearsals and performances as part of the graded curricula.

### Band I-IV

03150100 - 03150400

**Grade: 9-12**

**Credit: 1**

*Prerequisite: Consent of the Instructor*

The high school Band program provides four levels of Band classes during the school day. The instructional priorities include instructional technique, musicianship, critical listening, cultural growth, basic music theory, creative self-expression, rehearsal and concert etiquette, self-discipline, responsible citizenship, effective communication, problem solving, and production of quality products. Band students receive instruction on both marching band concert fundamentals. During marching band instruction, students learn marching fundamentals, spatial awareness, kinesthetic awareness and basic dance fundamentals. A variety of musical styles are performed. Importance is placed on physical conditioning, so students should be in good physical condition in order to participate. This includes summer preparation in band camp during the months of July and August. Concert season is ongoing and provides students an opportunity to continue musical growth and experience music literature. Individual musicianship as well as small and large ensemble concepts and skills are emphasized. Performances during the concert season include numerous concerts, festivals, and community events. Students may also participate in a series of auditions related to the all-state process as well as solo and ensemble competitions. Students enrolled in the band class must attend after school rehearsals and performances. According to the students' demonstrated proficiency during their audition, class period placements will be made in the appropriate Band grouping (i. e. Symphonic, Wind Symphony, Wind Ensemble, Percussion, etc.)

Students must complete one credit in Physical Education or an equivalent in order to receive a high school diploma. Marching Band substitutes for P.E. during the season it is offered with the remaining semesters of Band contributing toward the Fine Arts graduation requirement. Students may receive State elective credits for all semesters of Band that are not counted toward Physical Education or Fine Arts credits. According to the student's proficiency, specific campus placement will be made in the appropriate Band grouping (i.e. Symphonic, Concert, Percussion, etc.).

### Color Guard/Winter Guard

03150100 - 03150400

**Grade: 9-12**

**Credit 1**

*Prerequisite: Consent of the Instructor*

The Color Guard and Winter Guard performs original choreography to many different types of music using various types of equipment such as sabers, rifles, flags and other props. To make a stunning visual representation of the given piece of music, we rehearse frequently and are showcased at many different competitions and public performances.

In the fall semester, the Color Guard rehearses with the KHS Marching Band and performs with them at all times. Students are expected to attend multiple after school rehearsals each week. During the winter and spring seasons, the Winter Guard performs independently from the band on their indoor show. Full attendance and participation are required at all after school rehearsals and weekend performances.

Color Guard and Winter Guard are auditioned groups so students must attend and qualify in auditions in order to become a member of the group. Guard members are also members of the band and will follow the same rules and procedures as band students.

**Jazz Band I-IV****03151300 – 03151400 – 03151500 - 03151600****Grade: 9-12****Credit: 1***Prerequisite: Consent of the Instructor*

Students involved in the jazz program will be taking the next step in performing on their instrument by learning the various styles of the American art form. Jazz band members will play in traditional 'big band' instrumentation, but also in smaller groups (combos) and modified groups (brass band). Students will learn the varying styles of jazz (swing, bebop, Latin, funk, etc.) and the art of improvisation in those styles. The jazz band performs at band concerts and at various jazz festivals in the Houston area. Students will receive 1 Fine Arts Credit toward the Fine Arts requirement for graduation.

**Orchestra I-IV****03150500 – 03150800****Grade: 9-12****Credit: 1***Prerequisite: Consent of the Instructor*

For students playing a school owned instrument, there is a \$50 fee for the school year; all other instruments must be purchased or rented; additional fees will be required. These courses consist of concert playing, sight reading, small ensemble playing, and individual instrumental technique. Students learn the enjoyment and appreciation of music through the development of performance skills and disciplines. Public performance is an integral part of the orchestra experience. Students in grades 9-12 will comprise various classes according to achievement levels monitored by periodic auditions. Each student will audition for the appropriate orchestra. Members are expected to participate in extra rehearsals and performances that involve the orchestra as a whole. All styles of music are explored.

**Percussion****03151700 – 03152000****Grade: 9-12****Credit: 1***Prerequisite: Consent of the Instructor*

Percussion students participate in the Marching Band and concentrate on technique, repertoire, and musical issues. Emphasis is placed on memorization, tone production, musicianship, an overview of all percussion instrument techniques, history, mechanics of movement, solo and ensemble literature, and practice techniques. Students will receive a 0.5 credit in the fall toward P.E. requirement and a 0.5 credit in the spring toward the Fine Arts requirement for graduation.

**Choir****Fine Arts and Humanities Endorsement**

Career Pathway	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Choir	Men's Choir I	Men's Choir II	Men's Choir III	Men's Choir IV
	Women's Choir I	Women's Choir II	Women's Choir III	Women's Choir IV
	Ladies Vocal Ensemble I	Ladies Vocal Ensemble II	Ladies Vocal Ensemble III	Ladies Vocal Ensemble IV
	A Capella Vocal Ensemble I	A Capella Vocal Ensemble II	A Capella Vocal Ensemble III	A Capella Vocal Ensemble IV
	Chamber Singers World Music Ensemble I	Chamber Singers World Music Ensemble II	Chamber Singers World Music Ensemble III	Chamber Singers World Music Ensemble IV
	Music Appreciation I (available 9 <sup>th</sup> – 12 <sup>th</sup> Grade)			
	AP Music Theory (available 10 <sup>th</sup> – 12 <sup>th</sup> grade)			

**A Capella Vocal Ensemble I-IV****03152400****Grade: 10-12****Credit: 1***Prerequisite: Approval from Instructor*

A Cappella choir is an advanced level choir for both male and female students who have had at least one year of high school level choir. This class is designed for students who have a passion for singing and a passion for excellence. The A Cappella Choir will compete at various events including UIL Concert and Sight-Reading. In this class, students will continue learning both fundamental and advanced levels of music theory, sight-reading, vocal production and music history. Approval from choir director is required to participate in this class. Please take note that there will be required after school rehearsals for this choir.

**Chamber Singers World Music Ensemble I-IV****03153400-03153700****Grade: 10-12****Credit: 1***Prerequisite: Approval from Instructor*

Chamber Singers choir is a varsity level choir for both male and female students who have had at least one year of high school choir. This class is designed for advanced choral students who possess a passion for singing and a passion for excellence. The Chamber Singers choir will compete in UIL Concert and Sight-Reading. Students in this class will learn advanced concepts of music theory, music history, sight-reading, and vocal production. All students in this class will be required to sing at the Region 19 Solo and Ensemble contest and audition for the Region 19 honor choir. There will be a formal audition process for this class and only 16 students will be accepted. Approval from a director after a scheduled audition will be required to participate in this class. All after school rehearsals and performances are mandatory. This course has a co-enrollment requirement of being in an additional choir. The second choir will be A Cappella or Ladies Ensemble at the discretion of the director.

**Ladies Vocal Ensemble I-IV****03152100-03152400****Grade: 10-12****Credit: 1***Prerequisite: Approval from Instructor*

Ladies Ensemble is an advanced choir class for female students who have already had at least one year of high school level choir. This class is designed for female vocalists who have a passion for excellence. Ladies Ensemble will compete at various events including UIL Concert and Sight-Reading. In this class, students will continue learning both fundamental and advanced levels of music theory, sight-reading, vocal production and music history. Approval from choir director is required to participate in this class. Please take note that there will be required after school rehearsals for this choir.

**Men's Choir I-IV****03150900-03151200****Grade: 9****Credit: 1**

Men's Chorus is a beginning level choir class specifically for freshman and sophomores but is open to any first-time choir student. This class is designed for students who have an interest in choral singing. In this class, students will learn the fundamentals of music theory, sight-reading, vocal production and music history. This is a performance based class and all concerts are mandatory. There are no prerequisites to this class. Students who join this course will enjoy singing music from all different countries and time periods.

**Music Appreciation I****03155600****Grade: 9-12****Credit: 1**

Music appreciation is open to 9th -12th grade students who are in need of a fine arts credit but feel that they are not ready to be in a performance based class such as choir or band. In music appreciation we will cover topics such as: music history, music theory and composition from the earliest records of music all the way through music of today. We will also spend time every week working with different instruments including: piano, keyboard, percussion, voice, band instruments, and orchestra instruments. This class does not have regular after school commitments, nor are there any concerts. This class will be structured much like core classes with lectures, class work, home work and assessments.

**AP Music Theory****A3150200****Grade: 10-12****Credit: 1****GPA: 6.0**

Music Theory is an advanced level course designed to engage students in learning activities that will help them to achieve the outcomes assessed by the College Board's Advanced Placement Music Theory Examination. The AP Music Theory course is designed to develop a student's ability to recognize, understand, and describe the basic materials and processes of music that are heard or presented in a score. These abilities will be developed through various listening performance, written, creative, and analytical exercises. Although this course focuses on music of the Common Practice Period (1600-1900), materials and processes found in other styles and genres are also studied. This course has a co-enrollment requirement of being in band or choir.

**Women's Choir I-IV****03151000-03151200****Grade: 10-12****Credit: 1***Prerequisite: Approval from Instructor*

Women's Chorus is a beginning level choir class specifically for freshman and sophomores but is open to any first-time choir student. This class is designed for students who have an interest in choral singing. In this class, students will learn the fundamentals of music theory, sight-reading, vocal production and music history. This is a performance based class and all concerts are mandatory. There are no prerequisites to this class. Students who join this course will enjoy singing music from all different countries and time periods.



## Dance

Fine Arts and Humanities Endorsement				
Career Pathway	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Dance	Dance I	Dance II	Dance III	Dance IV
	Drill Team I	Drill Team II	Drill Team III	Drill Team IV
		Dance Performance Ensemble I	Dance Performance Ensemble II	Dance Performance Ensemble III

### Dance I

03830100

**Grade: 9-12**

**Credit: 1**

Dance I is a performance-base, entry-level course that serves as a dance student's first year to be a member of a dance ensemble at the high school. Dance I students explore fundamental aspects of dance performance through basic technical dance applications as well as perform memorized movement sequences with rhythmical accuracy in several dance styles to including classical ballet, hip-hop, modern, jazz, and ethnic dance. Students will learn to incorporate appropriate movement/dance vocabulary when identifying qualities and discussing meaning of performance and production in dance. Students will identify historical figures and their significance in dance history.

### Dance II

03830200

**Grade: 10-12**

**Credit: 1**

*Prerequisite: Dance I*

Dance II is a performance-based, intermediate-level course that serves as a dance student's second year to be a member of a dance ensemble at the high school. Students will learn to improvise dance phrases using the concept of abstraction by incorporating choreographic processes by altering time, space, dynamics, and intensity in dance styles. Students will analyze and critique their own as well as others' performance skills and production qualities in dance. Students identify similarities of form and expression in dance with other art mediums while applying dance-related skills.

### Dance III

03830300

**Grade: 11-12**

**Credit: 1**

*Prerequisite: Dance I and II*

Dance III is a performance-based, advanced-level course that serves as a dance student's third year to be a member of a dance ensemble at the high school. Dance III students are expected to perform memorized and complex movement sequences with rhythmic accuracy, projection, confidence, and expression. Students will analyze dance from a variety of perspectives such as those of dance critics, performers, choreographers, and audience members.

### Dance IV

03830400

**Grade: 11-12**

**Credit: 1**

*Prerequisite: Dance I, II, and III*

Dance IV is a performance-based/highly advanced-level course that serves as a dance student's fourth year to be a member of a dance ensemble at the high school. Dance IV students are expected to lead peers with understanding and respect by demonstrating refined kinesthetic and spatial awareness, as well as self-evaluation, insight, movement inflection, and interpretation skills. Students will demonstrate knowledge of injury prevention rules and other health related principles when exercising, practicing, and performing. Students will perform dance movements with a refined sense of rhythm and musicality with clarity, expressiveness, and a wide range of spatial qualities by creating original dances using improvisation and other choreographic processes.

### Dance Performance Ensemble I-III

N1170034 – N1170035 – N1170036

**Grade: 10-11**

**Credit: 1**

*Prerequisite: Drill Team 1 and Tryout Required*

Dance Performance Ensemble I - III is an intense interdisciplinary program that combines performance elements such as dance, music, costumes and theatrical design with performance opportunities for small dance ensembles.

**Grade: 9-12****Credit: 1***Prerequisite: Tryout Required*

This course is designed for students selected to represent the high school on the drill team. This class meets during the school day and consists of conditioning activities, skill development in various dance routines, and choreographed programs. Specific preparations for game and competition performances are the foundation of this course. Students are required to attend all after-school practices as well as every performance outside of class time. Students gain membership through a try-out procedure held during the spring of the previous school year. Additional expenses for equipment are required.

Students must complete one credit in Physical Education or an equivalent in order to receive a high school diploma. Drill Team I substitutes for P.E. while Drill Team II – V contribute toward the Fine Arts graduation requirement. Students may receive State elective credits for all semesters of Drill Team that are not counted toward Physical Education or Fine Arts credits.



## Theatre

### Fine Arts and Humanities Endorsement

Career Pathway	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
Theatre	Theatre Arts I	Theatre Arts II	Theatre Arts III	Theatre Arts IV
	Theatre Production I	Theatre Production II	Theatre Production III	Theatre Production IV
	Technical Theatre I	Technical Theatre II	Technical Theatre III	Technical Theatre IV

#### Technical Theatre I

03250500

**Grade: 9-12****Credit: 1**

Technical Theatre I focuses on the offstage work in theatre including, but not limited to set design, safety, lighting, sound, costume, makeup, set construction and production. This course establishes a foundation in all aspects of technical theatre. This course involves basic carpentry, electrical design and setup, painting, research, and various design techniques for each of the technical elements.

#### Technical Theatre II, III, IV

03250600, 03251100, 03251200

**Grade: 10-12****Credit: 1***Prerequisite: Technical Theatre I OR must acquire written permission from the course teacher*

Technical Theatre II-IV is a more advanced technical theatre class that builds on technical skills learned in Technical Theatre I. This course delves deeper into the design and creating process. Students will be required to analyze plays and design appropriately for the different technical theatre offstage work such as set design, lighting, sound, costume, makeup, set construction, stage management, and production. This course also reinforces collaboration and sets up systems that provide leadership training and professional outlook on the field. Students will be required to create a portfolio that organizes their experience and artistic creations.

#### Theatre Arts I

03250100

**Grade: 9-12****Credit: 1**

Theatre Arts I is a survey course that establishes the base for all subsequent theatre courses and serves as a general introduction to all of the fundamental aspects of the theatre that range from creative use of technical and production skills to the exploration of acting techniques. This course will focus on both the acting and technical aspects involved in the total theatre experience. The technical opportunities afforded students include: sound, sets, lights, costumes, props, and makeup. Basic craftsmanship skills will be taught with students mastering the use of various stage equipment and electrical tools utilizing in-model and full-size building and design. The acting/performance opportunities afforded students will include: acting, directing, analysis and interpretation of scripts, script reading, interdependence of all theatrical elements, appreciation of theatre, theatre etiquette, evaluation of theatrical experiences, and theatre history. This course is a prerequisite for Theatre Arts II or Technical Theatre II.

**Theatre Arts II****03250200****Grade: 10-12****Credit: 1***Prerequisite: Theatre Arts I*

Theatre Arts II builds on the background established in Theatre Arts I while continuing the development of acting skills through physical, vocal and improvisation exercises. Acting and directing principles are applied through performances and productions. This course also covers a more in depth analysis of the various theatrical modes including classical and contemporary theatre, drama, mime, musical theatre and TYA (Theatre for Young Audiences.) Students enrolled in this class will participate in ONE production that will be rehearsed in class.

**Theatre Arts III****03250300****Grade: 11-12****Credit: 1***Prerequisite: Theatre Arts I and II*

Theatre Arts III is an advanced-level, performance based course designed for the highly motivated, serious theatre student, further defining the concepts and skills acquired in Theatre Arts II. This course has an emphasis on the elements of directing and playwriting. Students write original plays and monologues. Various styles of theatre will be used including, but not limited to TYA (Theatre for Young Audiences) puppetry, classical theatre, musical theatre, and acting for the camera. Students enrolled in this class will participate in ONE production that will be rehearsed in class.

**Theatre Arts IV****03250400****Grade: 12****Credit: 1***Prerequisite: Theatre Arts I, II, and III*

Theatre Arts IV is an advanced-level, performance based course designed for highly motivated, serious theatre students, further exploring the concepts and skills acquired in Theatre Arts III. This course has an emphasis on professional outlook on Theatre as whole. The course requires students to create a portfolio that will organize all their experience and skills. This course emphasizes Theatre Arts on the professional stage, for the camera, and other theatre role career venues. This course will emphasize self-responsibility and self-accountability in improving the student's art.

**Theatre Art Production I****03250700****Grade: 9****Credit: 1***Prerequisite: Students must acquire written permission from the course teacher or middle school theatre arts teacher*

Theatre Arts Production I is intended for the acting student who wants to continue to develop skills that were learned from their middle school theatre program. Acting and directing principles are applied through performances in various theatrical modes including classical and contemporary theatre. This course also serves as a more in depth study of analysis and interpretation of scripts, script reading, interdependence of all theatrical elements, and theatre history. Enrollment in this class is contingent upon a referral from a middle-school theatre teacher or an audition with the high school department.

**Theatre Art Production II, III, IV****03250800 - 03251000****Grade: 10-12****Credit: 1***Prerequisite: Students must acquire written permission from the course teacher*

Theatre Production II-IV is designed for the serious drama student. Its emphasis will be on public and competitive performances. There will be work on advanced acting skills, improvisation, and script interpretation. Students will write and perform original script. Each student will be expected to work at an independent level in research and rehearsal of individual material. This course participates in the UIL One Act Play and students are required to be academically fit to participate.

## Languages Other Than English (LOTE)

### Accelerated Spanish I & II for Native Speakers

03440110/03440220

**Grade: 9-12**

**Credit: 2**

**GPA: 4.0**

*Prerequisite: Students conversant in Spanish who have had little or no formal training in their native language; Spanish Diagnostic Entrance Exam; Spanish teacher recommendation based on exam results and oral interview.*

This course is designed for the native Spanish-speaking students who are conversant in their native language but need improvement in the grammatical and writing skills. Emphasis will be placed on reading, writing, and higher order thinking skills. Course work will be done at an accelerated pace, covering two years' work in one year and receiving two high school Credit. Students who have completed Spanish I are not eligible for this course.

### French I

03410100

**Grade: 9-12**

**Credit: 1**

**GPA: 4.0**

French I emphasizes development of the four basic language skills: listening, speaking, reading and writing. The class also stresses cultural awareness and appreciation of the French-speaking world, as well as an awareness of the French influence on the language and customs of North America. Class work includes oral drills, dictation, vocabulary, composition and simple reading assignments, as well as dialogue, creative writing and multi-media presentations.

### French II

03410200

**Grade: 10-12**

**Credit: 1**

**GPA: 4.0**

*Prerequisite: French I*

French II is a continuation of French I, emphasizing mastery of basic language patterns, using correct pronunciation and intonation. This class will read simple selections for comprehension and write short compositions. Students will continue to study French culture.

### Pre-AP French III

03410300

**Grade: 11-12**

**Credit: 1**

**GPA: 5.0**

*Prerequisite: French II*

French III is a continuation of French II. The student will have a variety of listening experiences, be able to discuss subjects of everyday interest, and have a broadened knowledge of grammar. By studying selections of increasing literary value the students will advance their reading skills and cultural understanding. Students will write original and guided compositions. Special assignments may include writing a paper, presenting poetry and skits, and writing letters.

### AP French Language and Culture

A3410100

**Grade: 12**

**Credit: 1**

**GPA: 6.0**

*Prerequisite: French III*

The AP French Language and Culture course emphasizes the interpersonal, interpretive, and presentational modes of French in real-life situations. This includes vocabulary, communication strategies, and cultural awareness. The course explores French culture and integrates six themes: beauty and aesthetics, contemporary life, families and communities, global challenges, personal and public identities, and science and technology. The course is taught almost exclusively in French, and students are expected to take the Advanced Placement French Language and Culture Exam.

### Spanish I

03440100

**Grade: 9-12**

**Credit: 1**

**GPA: 4.0**

Spanish I emphasizes development of the four basic language skills: listening, speaking, reading and writing. The class also stresses cultural awareness and appreciation of the Spanish-speaking world as well as an awareness of the Spanish influence on the language and customs of North America. Class work includes oral drills, dictation, vocabulary, composition and simple reading assignments, as well as dialogue, creative writing and multi-media presentations.

### Spanish II

03440200

**Grade: 9-12**

**Credit: 1**

**GPA: 4.0**

*Prerequisite: Spanish I*

Spanish II is a continuation of Spanish I, emphasizing mastery of basic language patterns, using correct pronunciation and intonation. The class will read simple selections for comprehension and write short compositions. Students will complete projects to strengthen their language skills. Students will continue to study Hispanic culture.

**Pre-AP Spanish III****03440300****Grade: 10-12****Credit: 1****GPA: 5.0***Prerequisite: Spanish II*

The student will have a variety of listening experiences, be able to discuss subjects of everyday interest, and have a broadened knowledge of grammar. By studying selections of increasing literary value, students will advance their reading skills and cultural understanding. Students will write original and guided compositions. Special assignments may include presenting poetry, skits, and writing letters.

**AP Spanish Language and Culture****A3440100****Grade: 11-12****Credit: 1****GPA: 6.0***Prerequisite: Spanish III*

The AP Spanish IV curriculum is designed to perfect the student's proficiency in all aspects of language communication in preparation for the AP Spanish Language Examination. Class is conducted entirely in Spanish. Grammar will be thoroughly reviewed, new vocabulary and idiomatic expressions will be learned, and students will read and analyze selections from literature and other authentic written texts, including newspaper and magazine articles. Students will make frequent oral presentations, both spontaneous and prepared, in order to practice their speaking and listening skills. They will prepare frequent compositions and increase their listening comprehension through authentic audio and video recordings. Students will further their ability to integrate their language skills through formal writing that requires them to synthesize written and aural materials.

**AP Spanish Literature and Culture****A3440200****Grade: 11-12****Credit: 1****GPA: 6.0***Prerequisite: Spanish III*

The AP Spanish Literature is equivalent to a college level introductory survey course of literature written in Spanish. Students continue to develop their interpretive, interpersonal, and presentational skills in Spanish language as well as critical reading and analytical writing as they explore short stories, novels, plays, essays, and poetry from Spain, Latin America, and U.S. Hispanic authors along with other non-required texts.

**Special Topics in Language and Culture****11410000****Grade: 10-12****Credit: 1***Prerequisite: Spanish I OR French I*

The study of world languages is an essential part of education. In the 21st century language classroom, students gain an understanding of two basic aspects of human existence: the nature of communication and the complexity of culture. Students become aware of multiple perspectives and means of expression, which lead to an appreciation of difference and diversity. Further benefits of foreign language study include stronger cognitive development, increased creativity, and divergent thinking. Students who effectively communicate in more than one language, with an appropriate understanding of cultural context, are globally literate and possess the attributes of successful participants in the world community.

# Mathematics

Foundation	Required for All Endorsements	Advanced Academics
Algebra I	Algebra I	Pre-AP Geometry*
Algebraic Reasoning	Algebra II	Pre-AP Algebra II
Geometry	Geometry	Advanced Math
	Advanced Math**	Advanced Math**
Advanced math course options (see prerequisites in course descriptions below):		
<ul style="list-style-type: none"> <li>Algebra III</li> <li>Dual Credit College Algebra</li> <li>AP Calculus AB</li> <li>College Preparatory Course Mathematics</li> </ul>	<ul style="list-style-type: none"> <li>AP Pre-Calculus</li> <li>Statistics and Business Decision Making (CTE Course)</li> <li>AP Statistics</li> <li>University of Texas OnRamps – College Algebra</li> </ul>	

\* Students in this pathway took Algebra I during 8<sup>th</sup> grade.

\*\* In order to earn a STEM Endorsement, students must take an additional advanced math course (see page 11).

## Algebra I

03100500

**Grade: 9**

**Credit: 1**

**GPA: 4.0**

The focus of Algebra I is to develop in the students the ability to work with linear functions and quadratic functions. The student will use these functions to develop relationships among the different types of functions and to understand the attributes of the function. The student will analyze functions graphically, verbally, numerically and symbolically. Included in the Algebra course is a study of the attributes and properties of polynomials, exponents, irrational numbers, inequalities and square roots and their connection to functions. The use of the graphing calculator is a major component in the teaching of this course and will be provided by the school.

## Algebra II

03100600

**Grade: 10-12**

**Credit: 1**

**GPA: 4.0**

*Prerequisite: Algebra I*

Algebra II is an advanced algebra course. It is designed for students who have mastered the content for Algebra I. Topics covered include mathematical structure, quadratic functions, quadratic relations, systems of equations, numerical methods and higher degree polynomials, exponential and logarithmic functions, rational algebraic functions, sequences and series, data handling, and analysis. Algebra II relates or extends concepts to previously learned material. The use of current technology as problem-solving and discovery tools is integrated throughout the course whenever possible. The next recommended course is Pre-Calculus or Algebra III.

## Pre-AP Algebra II

03100600

**Grade: 10-12**

**Credit: 1**

**GPA: 5.0**

*Prerequisite: Algebra I*

The Pre-AP Algebra II course provides a more in-depth coverage of all the topics in regular Algebra II as well as the study and writing of algebraic proofs. Students are required to analyze and to extend their learning of the basic concepts. They are provided extensive and challenging higher-level applications and real-world problems. Students are expected to do independent study and research and to present their research in some visual manner. The use of current technology as problem-solving and discovery tools is integrated throughout the course whenever possible. This course is designed for the self-motivated, math-oriented student with a willingness to investigate mathematics and meets the requirements for G/T. The next recommended course is Pre-Calculus.

## Algebra III

03102500

**Grade: 11-12**

**Credit: 1**

**GPA: 5.0**

This course is an in-depth study and application of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included.

**Algebraic Reasoning****03102540****Grade: 9-12****Credit: 1****GPA: 4.0**

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 study 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.

**AP Calculus AB****A3100101****Grade: 12****Credit: 1****GPA: 6.0***Prerequisite: Pre-Calculus*

Advanced Placement Calculus AB covers the topics of elementary functions, differential and integral calculus. Students evaluate limits, analyze and apply the notions of continuity and differentiability to algebraic and trigonometric functions; use the concept of the derivative and the various formulas associated with it to investigate the properties of functions; use implicit differentiation to solve related rates, problems; construct detailed graphs of functions using differentiation; use basic integration techniques to solve simple differential equations; apply the Fundamental Theorem of Calculus to evaluate definite integrals and solve real world problems; differentiate and interpret logarithmic and exponential functions in addition to inverse trigonometric functions. The course is primarily concerned with an intuitive understanding of the concepts of Calculus with emphasis on methods and applications and meets the requirements for G/T. Whenever possible the use of technology is incorporated with traditional problem-solving methods. After successful completion of the course, the student should be prepared to take the College Board Calculus AB Advanced Placement exam in May.

**College Preparatory Course Mathematics****CP111200****Grade: 10-12****Credit: 1****GPA: 4.0***Prerequisite: Algebra II*

This course addresses a variety of mathematical topics needed to prepare students success in college-level mathematics. In this course students will connect and use multiple strands of mathematics in situations and problems, as well as in the study of other disciplines. In addition, the course supports students in developing skills and strategies needed to succeed in college. Mathematics topics include: numeracy with an emphasis on estimation and fluency with large numbers; manipulating and evaluating expressions and formulas, to include perimeter, area, and volume; rates, ratios, and proportions; percentages; solving equations; linear equations and inequalities; linear systems; exponential models; data interpretations including graphs and tables; verbal, algebraic, and graphical interpretations of functions. Mathematical process standards are also included in this framework; these process standards describe ways in which students are expected to engage in the content. Successful completion of this course, as defined by the memorandum of understanding (MOU) with the partnering institution(s), grants the student an exemption to TSI requirements for mathematics at the partnering institution(s).

Please note that College Preparatory Mathematics is not an approved NCAA course.

**Geometry****03100700****Grade: 9-12****Credit: 1****GPA: 4.0***Prerequisite: Algebra I*

Geometry is designed to develop an understanding of the basic structure of plane and spatial geometry. Developing the ability to analyze geometric relationships, make and verify conjectures, apply logical reasoning to justify and prove mathematical statements, and to use a variety of representations to describe geometric relationships and solve problems. This course allows students to apply algebraic skills in a logical and concrete manner.

**Pre-AP Geometry****03100700****Grade: 9-12****Credit: 1****GPA: 5.0***Prerequisite: Algebra I*

This course takes all of the goals of the regular Geometry course and further explores the content with an emphasis on problem solving in a multi-step format. Strategies and testing using the AP format are alternated with the intent of preparing students to enter our Advanced Placement mathematics program. Strong algebra skills and excellent study habits are required.

**University of Texas OnRamps – College Algebra****UM531A/UM531B****Grade: 12****Credit: 1 (possibility of earning 3 hrs. college credit if all requirements are met)****GPA: 6.0**

OnRamps is a dual-enrollment program designed to increase the number and diversity of students who engage in college courses designed by faculty at The University of Texas at Austin and facilitated by high school teachers. During the first semester, the student must complete the coursework and meet the academic requirements to earn college credit.

OnRamps requires a one-time, annual non-refundable fee per student for each course. The fee is due prior to the beginning of the fall semester. The fee includes access to course materials, the learning management system, and technology tools.

0.5 high school credit is awarded for Semester A and 0.5 high school credit is awarded for Semester B. Successful completion of Semester A and B earns 3 college credits in MATH 1301.

**AP Pre-Calculus****A3100100****Grade: 11-12****Credit: 1****GPA: 6.0***Prerequisite: Algebra I, Geometry and Algebra II*

AP Pre-Calculus is taught to prepare students for AP Calculus. Students will study this math from a functional approach integrating the topics of trigonometry, elementary analysis, analytic geometry, and number theory. Topics studied in the course include: operations with functions, composite and inverse functions, graphing functions using symmetry and translation, and using functions to model real-world situations to find maximums or minimums; trigonometric circular functions, their inverses and graphs, trigonometric identity and equations, and solving triangles using the Law of Sines and the Law of Cosines; operations with and graphing of polynomial, rational, exponential, and logarithmic functions, solving equations with these functions, and using them to model real-world problems; properties and systems of real and complex numbers; polar coordinates and graphing polar equations; vectors; conic sections; Binomial Theorem; arithmetic and geometric sequences and series and their application in modeling real-world situations, limits, and proof by mathematical induction. Whenever possible the use of technology is incorporated with traditional problem-solving methods. This course meets G/T requirements. The next recommended course is Calculus.

**AP Statistics****A3100200****Grade: 12****Credit: 1****GPA: 6.0***Prerequisite: Algebra II*

The purpose of the AP course in statistics is to introduce 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), and Statistical Inference (Estimating population parameters and testing hypotheses).

Students who successfully complete the course and exam may receive credit, advanced placement or both for a one-semester introductory college statistics course.

## Physical Education, Athletics and Health

Students are required to earn 1 credit of physical education to graduate. A maximum of 4 physical education credits can apply toward the state graduation requirements; any additional physical education credit will receive local credit only. As allowed by Chapter 74 of the Texas Administrative Code, students may substitute certain physical activities for graduation Credit required in physical education. The following physical activities will substitute 0.5 credit per semester towards the physical education state graduation requirements: Athletics, Cheerleading (fall semester only), Drill Team, JROTC, and Marching Band.

Athletics provides opportunities for students at KHS to compete competitively in a wide range of sports. Positions on the teams are determined through competitive tryouts.

### Requirements for All Competitive Athletics:

- Before any student can tryout or begin any athletic activity, the student must have a completed physical as well as all required forms from the University Interscholastic League and Sheldon ISD on file in the Athletic Trainers' Office. A copy of all the forms can be downloaded from the Athletics webpage or can be obtained in the Athletic Trainers' Office. Forms are updated each spring for the following school year.
- KHS offers a wide variety of highly competitive athletic programs. Positions on an athletic team are earned through competitive tryouts. Depending on the sport, tryouts may be held in the semester prior to the activity or at the beginning of the semester when the activity is held. Additional tryouts may also be held at the beginning of the season. A schedule change is required in the event a student does not make an athletic team.
- All students who participate in athletics must adhere to all regulations regarding academic performance, citizenship, physical training guidelines, and attendance at practice. Extended practice time beyond the regular class period and school day will be required during the season. Athletes are required to travel to and from all competitions with their team unless excused by the coach.
- All students will be required to participate in the strength and conditioning program.

### Athletics/Team Sports

PES00000 – PES00003

**Grade: 9-12**

**Credit: 1**

Team sports introduce students to concepts, strategies, rules, and physical activity. Cardiovascular fitness is incorporated into each unit. Upon completion of this course, the student has learned skills necessary to perform a variety of successful physical activities. Below is a list of the team sports offered at C. E. King High School:

#### Girls' Athletics

Basketball – Fall and Spring  
Tennis – Fall and Spring  
Volleyball – Fall  
Soccer – Spring  
Softball – Spring  
Track – Spring  
Golf – Spring (After-School ONLY)  
AFJROTC Competition Team

#### Boys' Athletics

Basketball – Fall and Spring  
Tennis – Fall and Spring  
Football – Fall  
Soccer – Spring  
Baseball – Spring  
Track – Spring  
Golf – Spring (After-School ONLY)  
AFJROTC Competition Team

### Aerobic Activities

PES00054

**Grade: 9-12**

**Credit: 0.5**

Students in aerobic activities are exposed to a variety of activities that promote health-related fitness. A major expectation of this course is for the student to design a personal fitness program that uses aerobic activities as a foundation.

### Cheerleading

PES00013

**Grade: 9-12**

**Credit: 0.5**

*Prerequisite: Tryout Required*

Cheerleaders are responsible for leading the school in spirit activities and leading cheers at athletic events. Specific guidelines relating to participation, citizenship, and academics must be met and maintained in order to hold the position of cheerleader. A time commitment is crucial to this course. Additional practice or activity time outside of school is required. Constitution guidelines and procedures are available the month prior to tryouts.

**Color Guard (Flags)****PES00012, 03150100****Grade: 9-12****Credit: 1***Prerequisite: Tryout Required*

The Color Guard is a pageantry orientated performance ensemble. This group visually interprets selected musical repertoire utilizing flags and other props together with basic dance moves, original choreography, and traditional marching techniques. Students are expected to attend all Marching Band rehearsals and abide by all rules of the C. E. King High School Marching Band. During the spring semester, the Color Guard will learn a choreographed routine and compete at local "winter guard" competitions. Attendance at all rehearsals, sectionals, and performances are mandatory. Please note that year-long participation is required, and students are expected to practice after regular school hours.

**Drill Team I****PES00014, 03830200 - 0380400****Grade: 9-12****Credit: 1***Prerequisite: Tryout Required*

This course is designed for students selected to represent the high school on the drill team. This class meets during the school day and consists of conditioning activities, skill development in various dance routines, and choreographed programs. Specific preparations for game and competition performances are the foundation of this course. Students are required to attend all after-school practices as well as every performance outside of class time. Students gain membership through a try-out procedure held during the spring of the previous school year. Additional expenses for equipment are required.

Students must complete one credit in Physical Education or an equivalent in order to receive a high school diploma. Drill Team I substitutes for P.E. while Drill Team II – IV contribute toward the Fine Arts graduation requirement. Students may receive State elective credits for all semesters of Drill Team that are not counted toward Physical Education or Fine Arts credits.

**Foundations of Personal Fitness****PES00052****Grade: 9-12****Credit: 0.5**

Foundations of Personal Fitness represents a new approach in physical education and the concept of personal fitness. The basic 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 corner stone of this course and is exemplified by one of the course objectives-students designing their own personal fitness program.

**Health****03810100****Grade: 9-12****Credit: 0.5**

Health is designed to give students practical knowledge that will help them keep physically fit and mentally healthy throughout their lives. The scope of this course includes three-week studies of each of the following: education in healthy sexuality (relationships, reproduction, family planning, sexually transmitted diseases), emergency care (CPR, first aid), healthful lifestyles (nutrition, fitness), mental and social health (teen suicide and stress management), chemical substance abuse (drugs, alcohol, tobacco), and current health issues (research papers and oral presentations). Class work for the course includes a variety of activities such as teacher-led discussions, newspaper reports, role playing, guest lecturers, student-led large/small discussion groups, and appropriate audio-visual materials.

**Individual Sports****PES00055****Grade: 9-12****Credit: 0.5**

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.

**Team Sports****PES00055****Grade: 9-12****Credit: 0.5**

Students enrolled in Team Sports are expected to develop health-related fitness and an appreciation for team work and fair play. Like the other high school physical education courses, Team Sports is less concerned with the acquisition of physical fitness during the course than reinforcing the concept of incorporating physical activity into a lifestyle beyond high school.

## Science

Foundation	Required for All Endorsements	Advanced Academics
IPC	Biology	Pre-AP Biology
Biology	Chemistry	Chemistry (Pre-AP or AP)
Chemistry	Physics	Advance Science
	Advanced Science*	Advance Science*
Physical advanced science course options (see prerequisites in course descriptions below):		Advanced science course options (see prerequisites in course descriptions below):
<ul style="list-style-type: none"> <li>Integrated Physics and Chemistry (IPC)</li> <li>Chemistry</li> <li>Pre-AP Chemistry</li> <li>AP Chemistry</li> <li>Physics</li> <li>AP Physics I</li> <li>University of Texas OnRamps – Physics</li> </ul>		<ul style="list-style-type: none"> <li>Advanced Animal Science (CTE course)</li> <li>Advanced Plant and Soil Science (CTE course)</li> <li>Anatomy and Physiology (CTE course)</li> <li>AP Biology</li> <li>Earth &amp; Space Science</li> <li>Environmental Systems</li> <li>Forensic Science (CTE course)</li> </ul>
<i>Note: Students must earn one credit in Physical advanced science.</i>		

\* In order to earn a STEM Endorsement, students must take an additional advanced science course (see page 11).

### Biology

03010200

Grade: 9

Credit: 1

GPA: 4.0

Biology includes the study of cells, plant and animal processes, genetics and ecology through classroom and laboratory experience. The study develops scientific attitudes, skills in the use of the scientific method and relates the vast store of scientific knowledge to solving problems in today's world.

### Pre-AP Biology

03010200

Grade: 9

Credit: 1

GPA: 5.0

This course includes all the concepts of Biology, but with more in-depth study and an expectation of increased homework. It is designed to provide a framework of rigorous academic challenge to prepare students for the AP Biology Exam. Laboratory (or out-of-school fieldwork) is designed to develop a critical approach to high level problem solving. A lab notebook analyzing data with detailed discussion is required. Oral, written, study and research skills are emphasized through various types of activities. Excellent study habits are imperative.

### AP Biology

A3010200

Grade: 11-12

Credit: 1

GPA: 6.0

AP Biology course work is evaluated and approved by the College Board. A college level laboratory notebook will be used. This course is equivalent to college-level general biology for science majors and is designed to prepare the student to take the College Board Advanced Placement examination. Three general areas (molecules and cells, genetics and evolution, and organisms and populations) are studied. Laboratory work is an integral part of the course. The aim of the course is to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically and effectively with the rapidly changing science of biology. The text is a college-level text. Students are expected to take the Advanced Placement exam given in the spring.

### Chemistry

03040000

Grade: 10-12

Credit: 1

GPA: 4.0

*Prerequisite: Algebra I and Biology*

Chemistry is designed to achieve the following objectives: to become proficient in the use of the scientific method and laboratory equipment, to solve problems using dimensional analysis and the mole concepts, to understand the properties of matter and energy, to use this information quantitatively and qualitatively to predict chemical behavior, and to develop an appreciation for the work of earlier scientists as well as ongoing scientific research. Chemistry is a concept-oriented course. Good mathematics skills are essential to success in this class. Laboratory safety and technique are emphasized throughout the year. Grades are based on tests, lab reports, and daily assignments, with the emphasis placed on tests.

**Pre-AP Chemistry****03040000****Grade: 10-12****Credit: 1****GPA: 5.0***Prerequisite: Algebra I and Biology*

Pre-AP Chemistry is designed for students to achieve the following objectives: to become proficient in the use of the scientific method and laboratory equipment, to solve problems using dimensional analysis and the mole concepts, to understand the properties of matter and energy, and to use this information quantitatively and qualitatively to predict chemical behavior, and to develop an appreciation for the work of earlier scientists. Chemistry is a concept-oriented course where students use a problem-solving approach. Study and perseverance are a must. As an end product of this course, the student gains a creative and inquisitive approach to learning. This course meets the requirements for G/T.

**AP Chemistry****A3040000****Grade: 11-12****Credit: 1****GPA: 6.0***Prerequisite: Algebra II and Chemistry*

AP Chemistry offers students advanced study in the concepts of chemistry. Laboratory techniques are developed to further the student's ability to pursue a career in an engineering or chemical-related field. Advanced laboratory investigations of atomic theory, properties of matter, chemical reactions, kinetics, and equilibrium are presented. Students are expected to take the Advanced Placement exam given in the spring.

**Earth and Space Science****03060200****Grade: 11-12****Credit: 1****GPA: 4.0***Prerequisite: three units of science (one of which may be taken concurrently) and three units of mathematics (one of which may be taken concurrently)*

Earth and Space Science is a capstone course designed to build on student's prior scientific and academic knowledge and skills to develop understanding of Earth's system in space and time. This course includes the study of:

Advances in technologies that continue to further our understanding of the origin, evolution, and properties of Earth and planetary systems within a chronological framework. The geosphere as a collection of complex, interacting, dynamic subsystems linking Earth's interior to its surface. The fluid Earth consisting of the hydrosphere, cryosphere, and atmosphere subsystems.

**Environmental Systems****03020000****Grade: 11-12****Credit: 1****GPA: 4.0***Prerequisite: Biology and Chemistry or IPC*

In Environmental Systems, 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: 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.

**Integrated Physics and Chemistry (IPC)****03060201****Grade: 9-10****Credit: 1****GPA: 4.0**

Integrated Physics and Chemistry is designed to provide a foundation in the physical sciences for those students seeking additional skill development before continuing with more advanced science courses. Although this course is taught in a conceptual manner, mathematical analysis of scientific concepts is also presented. In the chemistry portion of the course, material classification, atomic structure, interpretation of the periodic table, compound structures, chemical reactions, solutions and mixtures are introduced. In the physics portion of the course, topics such as forces, waves, sound, light, heat, and electricity are discussed. Laboratory activities, an integral part of this course, are used not only to reinforce concepts, but also to give students hands-on experience in making inferences and predictions, collecting data and drawing conclusions.

**Physics****03050000****Grade: 11-12****Credit: 1****GPA: 4.0***Prerequisite: Algebra I*

Physics is designed for students interested in science and planning a career in engineering, technical business, science, or mathematics. Topics covered in the course include kinematics, dynamics, heat, light, sound, and electricity. Class work includes demonstrations, lectures, class discussions, and problem-solving activities. Laboratory activities help to extend the understanding of basic physical concepts.

**AP Physics I****A3050001****Grade: 11-12****Credit: 1****GPA: 6.0***Concurrent with Calculus*

AP Physics I is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits.

**University of Texas OnRamps – Physics****TBD****Grade: 12****Credit: 1 (possibility of earning 3 hrs. college credit if all requirements are met)****GPA: 6.0**

OnRamps is a dual-enrollment program designed to increase the number and diversity of students who engage in college courses designed by faculty at The University of Texas at Austin and facilitated by high school teachers. During the first semester, the student must complete the coursework and meet the academic requirements to earn college credit.

OnRamps requires a one-time, annual non-refundable fee per student for each course. The fee is due prior to the beginning of the fall semester. The fee includes access to course materials, the learning management system, and technology tools.

0.5 high school credit is awarded for Semester A and 0.5 high school credit is awarded for Semester B. Successful completion of Semester A and B earns 3 college credits in TBD.

## Social Studies

Foundation/ Required for All Endorsements*	Advanced Academics
World Geography	Pre-AP World Geography
World History	AP World History
U.S. History	AP U.S. History
Government and Economics	AP US Government & Politics and AP Macroeconomics

\* Sheldon ISD requires all students to have 4 credits in social studies.

\*\* In order to earn an Arts and Humanities Endorsement, students must take an additional social studies course (see page 8).

### Economics

03310300

Grade: 12

Credit: 0.5

GPA: 4.0

Economics concentrates on the economic concepts, laws, and principles as they apply to comparative economic systems, with emphasis on the free enterprise system of the United States. Students examine the monetary and fiscal policies of the United States, apply economic knowledge to practical economic functions including the Federal Income Tax, review current events, and examine trends in the United States and global economics.

### Ethnic Studies: African American Studies

03380085

Grade: 10-12

Credit: 1

GPA: 4.0

In Ethnic Studies: African American Studies, an elective course, students learn about the history and cultural contributions of African Americans. This course is designed to assist students in understanding issues and events from multiple perspectives. This course develops an understanding of the historical roots of African American culture, especially as it pertains to social, economic, and political interactions within the broader context of United States history. It requires an analysis of important ideas, social and cultural values, beliefs, and traditions. Knowledge of past achievements provides citizens of the 21st century with a broader context within which to address the many issues facing the United States.

### Ethnic Studies: Mexican American Studies

03380084

Grade: 10-12

Credit: 1

GPA: 4.0

In Ethnic Studies: Mexican American Studies, an elective course, students learn about the history and cultural contributions of Mexican Americans. Students explore history and culture from an interdisciplinary perspective. The course emphasizes events in the 20th and 21st centuries, but students will also engage with events prior to the 20th century.

### Introduction to Philosophy Dual Credit (San Jacinto College)

0338002

Grade: 11

Credit: 0.5

This course provides a general overview of the historical development and the major systems of the philosophic thought. The nature of man, knowledge, morality, social and political theory, and the existence of God.

### Introduction to Sociology Dual Credit (San Jacinto College)

03380032

Grade: 11

Credit: 0.5

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

### Learning Framework Foundation of Success Dual Credit (San Jacinto College)

03380023

Grade: 11

Credit: 0.5

The purpose of EDUC1300/PSYC 1300 is to enable you to develop effective academic behaviors for college success. The course includes a balance between the research and theory in the psychology of learning, cognition, and motivation and how to apply what you learn to becoming successful in a college setting. You will understand the factors that affect assessment instruments, such as learning inventories, to help you identify your own strengths and weaknesses as a strategic learner. You are ultimately expected to integrate and apply the learning skills discussed across your own academic courses and program and become an effective and efficient learner. As you develop these skills, you should be able to continually draw from the theoretical models and apply this to your courses and to your life.

**AP Macroeconomics****A33102000****Grade: 12****Credit: 0.5****GPA: 6.0**

A macroeconomics course introduces students to fundamental economic concepts such as scarcity and opportunity costs. Students understand the distinction between absolute and comparative advantage, and apply the principle of comparative advantage to determine the basis on which mutually advantageous trade can take place between individuals and/or countries, and to identify comparative advantage from differences in opportunity costs. Other basic concepts that are explored include the functions performed by an economic system, and the way the tools of supply and demand are used to analyze the workings of a free market economy. The course will also introduce the concept of the business cycle to give students an overview of economic fluctuations and to highlight the dynamics of unemployment, inflation, and economic growth.

**Personal Financial Literacy****03380082****Grade: 10-12****Credit: 0.5****GPA: 4.0**

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.

**Special Topics in Social Studies – United States History through Film****03380002****Grade: 11-12****Credit: 0.5 – 1****GPA: 4.0**

Students will study United States History through the medium of film. This will be done through viewing, writing, and discussing both historical and contemporary pieces on topics related to the political, social, economic, and racial history of the world. After reviewing early United States history (1607-1865), students will investigate reconstruction, Westward Expansion, industrialization and its effects on the United States, overseas expansion and the building of an empire, the Progressive Era, World War I and the League of Nations, the Roaring 20s and the Great Depression, the New Deal and its successes and challenges, World War II, and foreign and domestic affairs from 1945 to the present.

**Special Topics in Social Studies – World History through Film****03380002****Grade: 11-12****Credit: 0.5 – 1****GPA: 4.0**

Students will study world history through the medium of film. This will be done through viewing, writing, and discussing both historical and contemporary pieces on topics related to the political, social, economic, and racial history of the world.

**United States History****03340100****Grade: 11****Credit: 1****GPA: 4.0**

U.S. History since Reconstruction surveys the significant events, issues, and problems in United States History since Reconstruction, considering the causes and results, and attempting to show the students how they may be affected by similar situations. After reviewing early United States history (1607-1865), students will investigate reconstruction, Westward Expansion, industrialization and its effects on the United States, overseas expansion and the building of an empire, the Progressive Era, World War I and the League of Nations, the Roaring 20s and the Great Depression, the New Deal and its successes and challenges, World War II, and foreign and domestic affairs from 1945 to the present.

**AP United States History****A3340100****Grade: 11****Credit: 1****GPA: 6.0**

This course surveys the events in United States History from the arrival of the Indians to the present, with the following units: discovery, colonization, the American Revolution and formation of a government, the Jacksonian Era, the Civil War, Westward Expansion, the Industrial Revolution, the Gilded Age, the Progressive Era, the emergence of the United States as a world power, business and culture, World War II, superpowers in the missile age, a dissenting generation, and the start of the third century. This course objective prepares the student for the Advanced Placement exam. Upon successful completion of the AP exam, a student may be awarded college credit.

The class is designed to emulate a college course. This class places a greater emphasis on higher-level thinking and writing skills than the regular U.S. History course. The student will read and evaluate a large amount of material and is expected to conduct independent and guided research. This course meets the requirements for G/T.

**United States Government****03330100****Grade: 12****Credit: 0.5****GPA: 4.0**

United States Government includes a study of the political heritage of the United States and Texas, the national and state constitutions, and political participation. Topics examined include political parties and ideologies; voting and elections; interest groups and lobbying; civil rights; and the functions and responsibilities of the legislative, executive, and judicial branches.

**AP United States Government and Politics****A3330100****Grade: 12****Credit: 0.5****GPA: 6.0**

This course in United States Government and Politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students will learn important facts, concepts, and theories pertaining to U.S. government and politics, understand typical patterns of political processes and behavior and their consequences, be able to analyze and interpret basic data relevant to U.S. government and politics (including data presented in charts, tables, and other formats) and be able to critically analyze relevant theories and concepts, apply them appropriately, and develop their connections across the curriculum.

**United States Government Dual Credit (San Jacinto College)****03330100****Grade: 12****Credit: 1 (0.5 High School; 0.5 is College)****GPA: 6.0**

Students receive 0.5 high school government credit and 3 semester hours of college credit. Participating students are responsible for tuition, fees, and books for this course and must provide own transportation.

**World Geography****03320100****Grade: 9****Credit: 1****GPA: 4.0**

The student will be introduced to the nature of geography. Analysis of physical characteristics and natural resources of various regions of the earth will be made with respect to the economic, social and cultural impact on the environment and resources. The student will acquire and refine map skills. They will also examine the uses, abuses and preservation of natural resources and physical environment with special attention to urban growth.

**Pre-AP World Geography****03320100****Grade: 9****Credit: 1****GPA: 5.0**

In Pre-AP/IB World Geography, students study the same objectives as in World Geography but at a more in-depth level. The course will be enriched with the study of world literature, primary sources, case studies, and research projects. Excellent study habits are imperative.

**World History****03340400****Grade: 10****Credit: 1****GPA: 4.0**

World History provides an overview of the development of civilization in all parts of the globe from prehistoric times to the present. Students explore the foundations of civilization, the classical world, development of nations in the Far East and Middle East, the Middle Ages, and Renaissance and Reformation. They also investigate the growth of the nation-state, revolutions, nationalism, imperialism, and democracy, and culminate with a study of the twentieth century.

**AP World History****03340400****Grade: 10****Credit: 1****GPA: 6.0**

*Prerequisite: Approved application and signed contract*

AP World History offers students an overview of the entire history of humankind. The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Included in the study are the foundations of civilization, comparative religions, Greek philosophies, Middle Ages, Renaissance and Reformation. Additional emphasis is placed on the growth of the nation-state and nationalism, revolution and world war, and the effects of imperialism on the Far East, Africa, and Latin America. Higher level thinking skills including individual research and critical analysis on selected topics will be incorporated into problem solving studies. This course meets the requirements for G/T.

## Specialty Courses

Public Service Endorsement				
Career Pathway	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
<b>Air Force Junior Reserve Officer Training Corps (AFJROTC)</b>	AFJROTC 1	AFJROTC 2	AFJROTC 3	AFJROTC 4

### Air Force Junior Reserve Officer Training Corps (AFJROTC)

*Prerequisite: Approval of the Senior Aerospace Science Instructor*

The mission of the Air Force Junior ROTC is to, "Develop citizens of character dedicated to serving their nation and community." The objectives of the program are to educate and train high school students in citizenship; promote community service; instill responsibility, character, and self-discipline; and provide instruction in air and space fundamentals. Each course is divided into three areas of instruction: Aerospace Science (40%), Leadership Education (40%), and Health & Wellness (20%). Drill and ceremonies is integrated into the Leadership Education portion and is part of every course. Here cadets are provided fundamental and in-depth instruction in Air Force drill and ceremonies. Health and Wellness is also part of every course. It is a mental and physical program focused on individual baseline improvements in set exercises with the goal of achieving a national standard based on age and gender. The objective is to motivate students to lead an active, healthy lifestyle beyond program requirements into their adult lives. AFJROTC 1 may substitute ½ credit per semester towards the physical education state graduation requirements. Students can earn college credit from the University of Colorado at Colorado Springs or Adams State College for each year of AFJROTC.

**NOTE:** AFJROTC is designed as a four-year course of study for high school students beginning with the freshman year. Sophomores and juniors with no previous JROTC experience may be enrolled in AFJROTC beginning with ROTC1 with approval of the Senior Aerospace Science Instructor. Seniors with no previous JROTC experience may not enroll in AFJROTC.

#### AFJROTC 1

03160100/PES00004

**Grade: 9-11**

**Credit: 1**

This is the basic course for all new AFJROTC students. It is an aviation history course focusing on the development of flight throughout the centuries. It starts with ancient civilizations, then progresses through time to modern day. The emphasis is on civilian and military contributions to aviation; the development, modernization, and transformation of the Air Force; and a brief astronomical and space exploration history. It is interspersed with concise overviews of the principles of flight to include basic aeronautics, aircraft motion and control, flight power, and rockets. Leadership Education is an introduction to the AFJROTC program including instruction of organizational structure; uniform wear; customs, courtesies, and other military traditions. Drill and Wellness are also an integral part of this course.

#### AFJROTC 2

03160200

**Grade: 10**

**Credit: 1**

*Prerequisite: At minimum successful completion of JROTC 1*

Course is for second year AFJROTC students. Students will begin to assume positions of leadership and responsibility in the Cadet Corps. The Aerospace Science portion of the course begins with the space environment moving into an in-depth examination of our earth, the Moon and the planets, the latest advances in space technology, and continuing challenges of space and manned spaceflight. The course is designed to complement materials taught in math, physics, and other science-related courses. Leadership Education 200 portion of the course stresses developing vision and teams, solving conflicts and problems, exploring a leadership model, and how to implement adaptive leadership. Leadership Education 300 portion of the course provides an essential component of leadership education for today's high school students. The course focuses charting your course to achieve your life goals, applying for jobs, working for the Federal Government, and developing your career skills. This course is designed to prepare students for life after high school in the high-tech, globally oriented, and diverse workplace. Unlocking Your Potential (UYP) is also part of this course which specifically focuses on three ingredients that make up a person's potential, building a positive self-image, using positive self-talk, how to put visualization to work for you, the importance of goal setting, and the six characteristics all high performers share. Drill and Wellness are also an integral part of this course.

#### AFJROTC 3

03160300

**Grade: 11**

**Credit: 1**

*Prerequisite: At minimum successful completion of JROTC 1*

Course is for third year AFJROTC students. Students will qualify to hold mid and upper level positions of leadership and management in the Cadet Corps. The Aerospace Science portion of the course begins with the space environment moving into an in-depth examination of our earth, the Moon and the planets, the latest advances in space technology, and continuing challenges of space and manned spaceflight. The course is designed to complement materials taught in math, physics, and other science-related courses. Leadership Education 200 portion of the course stresses developing vision and teams, solving conflicts and problems, exploring a leadership model, and how to implement adaptive leadership. Leadership Education 300 portion of the course provides an essential component of leadership education for today's high school students. The course focuses charting your course to achieve your life goals, applying for jobs, working for the Federal Government, and developing your career skills. This course is designed to prepare students for life after high school in the high-tech, globally oriented, and diverse workplace. Unlocking Your Potential (UYP) is also part of this course which specifically focuses on three ingredients that make up a person's potential, building a positive self-image, using positive self-talk, how to put visualization to work for you, the importance of goal-setting, and the six characteristics all high performers share. Drill and Wellness are also an integral part of this course.

**AFJROTC 4****03160400****Grade: 12****Credit: 1***Prerequisite: At minimum successful completion of JROTC 1*

Course is for fourth year AFJROTC students. Students will qualify for top level positions of leadership and management in the Cadet Corps. The Aerospace Science portion consists of the hands-on experience where cadets are afforded the opportunity to put theories of previous leadership courses into practice by managing the entire corps. The instruction also includes a block of college ePrep which helps cadets with college application and scholarship applications. They will put into practice their communication, decision-making, personal-interaction, managerial, and organizational skills. Leadership Education provides exposure to many leadership topics that will benefit the students as well as provide them the necessary skills needed to put into practice what they have learned during their time in AFJROTC. Drill and Wellness are also an integral part of this course.

**AFJROTC Competition Teams****PES00055****Grade: 9-12****Credit: 1***Prerequisite: Approval of the Senior Aerospace Science Instructor**Corequisite: Must be enrolled in a AFJROTC course*

This course is designed for AFJROTC students selected to represent the high school on one of the JROTC Competition Teams. Competition Teams introduces students to concepts, strategies, rules and physical activity. Cardiovascular fitness and strength training are incorporated into each unit. Specific preparations for competition are the foundation of this course. Upon completion of this course, the student has learned skills necessary to compete on various teams and perform a variety of successful physical activities. This course meets during the school day. Students are required to attend all after-school practices. Competition Teams offered at C.E. King High School Air Force JROTC are Unarmed Drill, Armed Drill, Color Guard (male and female), Orienteering, Rocketry, PT (male and female), and Marksmanship.

**Academic Decathlon I-IV****03221600 – 03221610 – 03380001 – 03380021****Grade: 9-12****Credit: 0.5 – 1***Prerequisite: Teacher Recommendation*

This is designed to prepare students for competition in Decathlon. Students are required to do independent and team research projects. This course covers ten events/subjects. Literature involves one novel, short stories, poems, and an essay. Students present a four-minute speech and two-minute impromptu speech. Students learn how to interview and be interviewed. The contest also includes social science, economics, mathematics, art, music, and science.

**AVID****N129001 – N129002 – N129003 – N129004****Grade: 9-12****Credit: 0.5 – 1**

The AVID Elective Class. The AVID Elective is the core of AVID Secondary. It targets students in the academic middle with the desire to go to college and the willingness to work hard. Often, AVID Elective students will be the first in their families to attend college, and come from groups traditionally underrepresented in higher education.

**Peer Assistance and Leadership (PALS) 1 and 2****N1290040/N1290041****Grade: 11-12****Credit: 0.5 – 1***Prerequisite: Application, interview, teacher recommendation*

The PALS course is a peer-helping program in which selected students are trained to work as peer facilitators. Students are trained in a variety of helping skills, which enable them to assist other students to have a more positive and productive school experience. Positive peer influence will be utilized as a central strategy for addressing peer school issues.

## San Jacinto College Dual Credit Courses

### Weighted Dual Credit Courses

High School		College	
Course Code	Course Name	College Course	Course Name
YH330A	U.S. History A	HIST 1301	United States History I
YH330B	U.S. History B	HIST 1302	United States History II
YM5E00	Independent Study in Math 2	MATH 1324	Math for Business and Social Sciences (Finite Math)
YM3D30	Ind Study in Math 3	MATH 1325	Calculus for Business and Social Science
YE4D0A	English IV A	ENGL 1301	Composition I
YE4D0B	English IV B	ENGL 1302	Composition II
YH430G	United States Government	GOVT 2305	Federal Government
YS4M0C	Sci. Research & Design II, Sem. A	GEOL 1303/1103	Physical Geology
	Need Course ID for BIOL Option	BIOL 1308/1108	Biology for Non-Science Majors I
YS4M0D (GEOL)	Sci. Research & Design II, Sem. B	GEOL 1304/1104	Historical Geology
YH4M0E	Economics	ECON 2301	Principles of Macroeconomics
YM3D00	Independent Study in Math 1	MATH 1314	*College Algebra
YS2EOB (BIOL)	Sci. Research & Design II B	BIOL 1307/1107	Biology for Science Majors I
YM3M10	Statistics	MATH 1342	*Elementary Statistical Methods
YS9E0A	Sci. Research & Design III A	BIOL 2301/1101	Anatomy & Physiology I
YS9E0B	Sci. Research & Design III A	BIOL 2302/1102	Anatomy & Physiology II
YS5D0A	Sci. Research & Design I A	CHEM 1305/1105	Introductory Chemistry I
YS5D0A	Sci. Research and Design I B	BIOL 2320/2120	Microbiology for Health Science Majors

High School		College	
Course Code	Course Name	College Course	Course Name
YM4M00	Precalculus	MATH 2412	Precalculus
YC1000?	Computer Science II	COSC 1436	Programming Fundamentals I
YM6E00	Independent Study in Math 2	MATH 2413	Calculus I (Summer before senior year)
YS8E0A	Sci. Research & Design III A	PHYS 2325/2125	University Physics I
YS8E0B	Sci. Research & Design III B	PHYS 2326/2126	University Physics II
YS4E0A	Sci. Research & Design A	CHEM 1311/1111	General Chemistry I
YS5E0B	Sci. Research & Design B	CHEM 1312/1112	General Chemistry II
YS2E0A	Sci. Research & Design II A	BIOL 1306/1106	Biology for Science Majors I
YS2E0B	Sci. Research & Design II B	BIOL 1307/1107	Biology for Science Majors II
YF410A	Spanish 4 A	SPAN 1411	Beginning Spanish I
YF410B	Spanish 4 B	SPAN 1412	Beginning Spanish II
YM3D00	Independent Study in Math	MATH 1332	Contemporary Mathematics
YS9E0A	Sci. Research & Design III A	BIOL 2301/2101	Anatomy & Physiology I
YS4D4A	Sci. Research & Design I B	BIOL 2320/2120	Microbiology for Health Science Majors

## San Jacinto College Dual Credit – Academic Courses

### Communications Applications Dual Credit (San Jacinto College)

03241400

Grade: 11

Credit: 0.5

GPA: 6.0

This introductory class in Public Speaking offers training in principles of Speech Communication and delivery as well as an introduction to various types of speaking situations.

### English IV Dual Credit (San Jacinto College – ENG 1301/1302)

03220400

Grade: 12

Credit: High School and College

GPA: 6.0

Students enroll in English 1301 and 1302 at San Jacinto College North. Students receive one high school English IV credit and six semester hours of college credit. Participating students are responsible for tuition, fees, and books for these courses.

### Introduction to Philosophy Dual Credit (San Jacinto College)

0338002

Grade: 11

Credit: 0.5

This course provides a general overview of the historical development and the major systems of the philosophic thought. The nature of man, knowledge, morality, social and political theory, and the existence of God.

### Introduction to Sociology Dual Credit (San Jacinto College)

03380032

Grade: 11

Credit: 0.5

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

### Learning Framework Foundation of Success Dual Credit (San Jacinto College)

03380023

Grade: 11

Credit: 0.5

The purpose of EDUC1300/PSYC 1300 is to enable you to develop effective academic behaviors for college success. The course includes a balance between the research and theory in the psychology of learning, cognition, and motivation and how to apply what you learn to becoming successful in a college setting. You will understand the factors that affect assessment instruments, such as learning inventories, to help you identify your own strengths and weaknesses as a strategic learner. You are ultimately expected to integrate and apply the learning skills discussed across your own academic courses and program and become an effective and efficient learner. As you develop these skills, you should be able to continually draw from the theoretical models and apply this to your courses and to your life.

### United States Government Dual Credit (San Jacinto College)

03330100

Grade: 12

Credit: 1 (0.5 High School; 0.5 is College)

GPA: 6.0

Students receive 0.5 high school government credit and 3 semester hours of college credit. Participating students are responsible for tuition, fees, and books for this course and must provide own transportation.

## San Jacinto College Dual Credit – Technical Courses

### Cosmetology I & II (Two Year Program at San Jacinto College)

13025210/13025310

**Grade: 11-12**

**Credit: 3 per year**

*Prerequisite: Principles of Human Services AND meet the San Jacinto College entrance requirements*

In Cosmetology I, 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.

In Cosmetology II, students review academic knowledge and skills related to cosmetology. This course is designed to provide advanced training for employment in cosmetology careers. Instruction includes advanced training in sterilization and sanitation processes, hair cares, 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 and skills to a variety of settings and problems.

### Construction Management Technology I & II (Two Year Program at San Jacinto College)

13001800

**Grade: 11-12**

**Credit: 3 per year**

*Prerequisite: Principles of Architecture AND meet the San Jacinto College entrance requirements*

Construction managers plan, coordinate, budget and supervise construction projects from early development to completion. The San Jacinto College program focuses on the management of commercial and industrial construction with an emphasis on green construction. This program is designed to prepare students to work in the field of commercial and industrial construction management. Allows students to participate in conceptual development and organization of a construction project, pricing procurement, cost scheduling and the estimating, scheduling, and implementation of the project.

### Criminal Justice (San Jacinto College)

13029200

**Grade: 11-12**

**Credit: 3 per year**

*Prerequisite: Business Law AND meet the San Jacinto College entrance requirements*

This program can prepare students for a variety of exciting and meaningful career – law enforcement, emergency management, homeland security, corrections, probation, parole, even social work. Criminal justice is one of the most popular, fascinating, and fastest growing fields out there. Choose this path and you will be serving society with a chance to make the world a better place.

### Diesel Technology I & II (San Jacinto College – 2 year program)

13039600/13039700

**Grade: 11-12**

**Credit: 3 per year**

*Prerequisite: Principles of Agriculture, Foods & Natural Resources AND meet the San Jacinto College entrance requirements*

The world relies on energy, and as we have worked to develop the fuels that drive our way of life, diesel has become more important than ever. This program will help students become key players in this bustling industry. Students learn engine testing and repair, electrical systems, HVAC, power trains, brake systems, safety and much more.

### Electrical Technology I & II (Two Year Program at San Jacinto College)

13005600/13005700/13005250/13005260

**Grade: 11-12**

**Credit: 3 per year**

*Prerequisite: Agricultural Mechanics and Metal Technologies AND meet the San Jacinto College entrance requirements*

Students can learn these highly marketable skills in this program. The Houston area is a rapidly expanding metropolis, with constant new residential, commercial, and industrial construction. This program will prepare students for a wide range of career possibilities in all of these areas. Students tackle everything from common household wiring to the complex industrial concepts that power the area's petrochemical plants.

**Emergency Medical Technology (San Jacinto College)****13001800****Grade: 12****Credit: 3***Prerequisite: Principles of Health Science, Health Science Theory, and Medical Terminology AND meet the San Jacinto College entrance requirements*

This course provides the introduction to the level of Emergency Medical Technician (EMT) - Basic level of emergency care. All the skills necessary to provide emergency medical care at a basic life support level with an ambulance service or other specialized services are taught. The course includes American Heart Association Healthcare Provider CPR.

**Medical Assisting I & II (San Jacinto College – 2 year program)****13020300 – 13020800****Grade: 11-12****Credit: 3 per year***Prerequisite: Principles of Health Science AND meet the San Jacinto College entrance requirements*

The medical assisting program is designed to prepare students for careers assisting physicians in the examination and treatment of patients. Medical assistants prepare treatment rooms, inventory supplies and instruments, and prepare patients for the attention of physicians. They hand instruments and materials to physicians as directed. They also schedule appointments, keep medical records, and perform secretarial duties.

**Pharmacy Technician I & II (San Jacinto College – 2 year program)****13020400 – 13020510****Grade: 11-12****Credit: 3 per year***Prerequisite: Principles of Health Science AND meet the San Jacinto College entrance requirements*

The pharmacy technician certificate of technology program provides graduates with the skills and knowledge that will enable them to qualify for entry-level positions in pharmacies as well as prepare them for national certification. The emphasis of the program is on training students to work in retail and hospital pharmacies. The program includes two clinical courses. Students who successfully complete this certificate program will be eligible to take the National Certification Examination for Pharmacy Technicians administered by the Pharmacy Technician Certification Board.

**Welding Technology I & II (Two Year Program at San Jacinto College)****13032400/13033000****Grade: 11-12****Credit: 2***Prerequisite: Agricultural Mechanics and Metal Technologies AND meet the San Jacinto College entrance requirements*

In Welding Technology I, students will apply knowledge and skills to join or cut metal surfaces. Includes instruction in arc welding, resistance welding, brazing and soldering, cutting, high-energy beam welding and cutting, solid state welding, ferrous and non-ferrous materials, oxidation-reduction reactions, welding metallurgy, welding processes and heat treating, structural design, safety, and applicable codes and standards.

In Welding Technology II, students will apply technical knowledge and skills to join or cut metal surfaces. Includes instruction in arc welding, resistance welding, brazing and soldering, cutting, high-energy beam welding and cutting, solid state welding, ferrous and non-ferrous materials, oxidation-reduction reactions, welding metallurgy, welding processes and heat treating, structural design, safety, and applicable codes and standards.

## University of Texas OnRamps

### University of Texas OnRamps – English

UE431A/UE431B

**Grade: 12**

**Credit: 1 (possibility of earning 6 hrs. college credit if all requirements are met)**

**GPA: 6.0**

OnRamps is a dual-enrollment program designed to increase the number and diversity of students who engage in college courses designed by faculty at The University of Texas at Austin and facilitated by high school teachers. During the first semester, the student must complete the coursework and meet the academic requirements to earn college credit.

OnRamps requires a one-time, annual non-refundable fee per student for each course. The fee is due prior to the beginning of the fall semester. The fee includes access to course materials, the learning management system, and technology tools.

0.5 high school credit is awarded for Semester A and 0.5 high school credit is awarded for Semester B. Successful completion of Semester A earns 3 college credits in ENG 1301. Successful completion of Semester B earns 3 college credits in ENG 1302.

### University of Texas OnRamps – College Algebra

UM531A/UM531B

**Grade: 12**

**Credit: 1 (possibility of earning 3 hrs. college credit if all requirements are met)**

**GPA: 6.0**

OnRamps is a dual-enrollment program designed to increase the number and diversity of students who engage in college courses designed by faculty at The University of Texas at Austin and facilitated by high school teachers. During the first semester, the student must complete the coursework and meet the academic requirements to earn college credit.

OnRamps requires a one-time, annual non-refundable fee per student for each course. The fee is due prior to the beginning of the fall semester. The fee includes access to course materials, the learning management system, and technology tools.

0.5 high school credit is awarded for Semester A and 0.5 high school credit is awarded for Semester B. Successful completion of Semester A and B earns 3 college credits in MATH 1301.

### University of Texas OnRamps – Physics

TBD

**Grade: 12**

**Credit: 1 (possibility of earning 3 hrs. college credit if all requirements are met)**

**GPA: 6.0**

OnRamps is a dual-enrollment program designed to increase the number and diversity of students who engage in college courses designed by faculty at The University of Texas at Austin and facilitated by high school teachers. During the first semester, the student must complete the coursework and meet the academic requirements to earn college credit.

OnRamps requires a one-time, annual non-refundable fee per student for each course. The fee is due prior to the beginning of the fall semester. The fee includes access to course materials, the learning management system, and technology tools.

0.5 high school credit is awarded for Semester A and 0.5 high school credit is awarded for Semester B. Successful completion of Semester A and B earns 3 college credits in TBD.