

# Humble ISD

## High School Planning Guide



Graduation Requirements • High School Program Options  
Course Descriptions • For Humble ISD Students, Grades 9-12



## HUMBLE INDEPENDENT SCHOOL DISTRICT

### HIGH SCHOOL COURSE GUIDE

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# PLANNING FOR YOUR FUTURE

The Humble ISD Planning Guide is designed to provide our students and parents information to assist in planning a course of study during middle school and high school. Contact your campus counselor for additional information about graduation programs, courses, state mandated assessments, or other graduation requirements.



- To receive a diploma from Humble ISD, students must meet the requirements of a state graduation plan as mandated by [Chapter 74 of the Texas Administrative Code](#), as well as state testing requirements for graduation. Students are encouraged to develop a graduation plan that identifies the courses which will satisfy the program requirements and prepare them for their chosen career cluster.
- All students should create a PGP, **Personal Graduation Plan**. The PGP is a flexible college and career education plan for each student based on an interest area called an endorsement. High school course selection should be based on the student's researched and carefully selected career pathway.
- A **PGP** is helpful to students in three ways. First, a **PGP** is adjustable which allows students to change their minds. Second, a PGP encourages students to take responsibility for their own path. And third, no two PGP's are exactly the same which allows each student to create a plan of action for achieving his or her own individual goals and success!
- The goal of Humble ISD is to have every eighth grader create a **PGP** which is reviewed annually with the counselor revised as necessary to meet students goals. We accomplish this by encouraging students to work with their parents, teachers, and counselors to explore interests and careers and create a personalized plan using the Naviance Student program at <https://student.naviance.com>
- Parents can play a key role in helping their child develop a PGP by becoming partners with counselors and teachers. Parents are encouraged to learn more about endorsements and career clusters by visiting both the Humble ISD and Naviance Student websites frequently. At the Naviance Student website parents can view their child's PGP, goals, interest and values inventories and so much more!
- Humble ISD provides a customized online career exploration and college-planning tool for students and their families. This service can be accessed at <https://student.naviance.com> A motivated student who chooses a pathway is a more focused, achievement-oriented student.
- Professional school counselors provide individual and small group information sessions and guidance at each secondary campus throughout the year. We encourage you to participate in these activities so that you will be prepared to make informed decisions. It is important that each student and parent work with the school counselors to ensure that graduation program requirements are met.

**The following resources may be of additional assistance as you  
are planning and setting goals:**

- Texas Higher Education Coordinating Board: 1-800-242-3062 or [www.theccb.state.tx.us](http://www.theccb.state.tx.us)
- Financial Aid Hotline 1-877-782-7322
- SAT/PSAT: College Board [www.collegeboard.org](http://www.collegeboard.org)
- Big Future: <https://bigfuture.collegeboard.org/>
- College for Texans [www.collegefortexans.com](http://www.collegefortexans.com)
- ACT: [www.act.org](http://www.act.org)
- Occupational Outlook Handbook published by the US Department of Labor: <https://www.bls.gov/ooh/>
- Minnie Piper Stevens Foundation Compendium of Texas Colleges and Financial Aid: <https://comptroller.texas.gov/programs/education/msp/>
- Naviance Student: [www.student.naviance.com](http://www.student.naviance.com)
- Texas OnCourse College and Career Planning: [www.texasoncourse.org](http://www.texasoncourse.org)
- College Cost Planning: <https://studentaid.gov/>
- College and Scholarship Matching: [collegeexpress.com](http://collegeexpress.com)
- Peterson's renowned source for college information with ability to search by major, location, tuition costs, size, and much more. Contains practice tests for ACT and SAT with tips and strategies for success: [petersons.com](http://petersons.com)
- Mapping Your Future provides information on the steps necessary to prepare for college and what to consider at each step. It is divided into three major steps: Planning a Career – steps for choosing a career plan , Selecting a College – characteristics to look for , and Paying for College – options for paying for college: [mappingyourfuture.org](http://mappingyourfuture.org)
- Next Step U provides a guide that helps high school juniors and seniors explore potential careers, research collegiate options and make educated decisions about their futures: [nextstepu.com](http://nextstepu.com)
- Khan Academy is a free resource for practice and preparation for the new SAT debuting in spring 2016, also find practice and helpful videos for the PSAT and other school subjects and topics for all grade levels: [khanacademy.org](http://khanacademy.org)
- NCAA Eligibility Center for student athletes: <http://www.ncaa.org/student-athletes/future>
- The Princeton Review: [princetonreview.com](http://princetonreview.com)
- Free Application for Federal Student Aid and additional resources: [www.fafsa.ed.gov](http://www.fafsa.ed.gov)
- If you're not ready to apply for federal aid, but you'd like to estimate your aid, try FAFSA4caster: [www.studentaid.ed.gov/sa/fafsa/estimate](http://www.studentaid.ed.gov/sa/fafsa/estimate)

This is not an exhaustive list of resources, this list should be used as a guide to get you started in your process.

# Texas Education Agency Graduation Toolkit

## ✓ Foundation High School Program

A **Foundation High School Program** is required to graduate and makes up the core of the Texas high school diploma program.

### Course Credit: What is a credit, anyway?

A credit is a unit of measure awarded for successful completion of a high school course. Completion of a one-semester course typically earns one-half of a credit for a student. For the Foundation High School Program, the basic requirement is for Texas public school students to earn **22 credits**.

<b>English (4 credits)</b>	• English I	• English II	• English III	• An advanced English course
<b>Mathematics (3 credits)</b>	• Algebra I	• Geometry	• An advanced math course	
<b>Science (3 credits)</b>	• Biology	• Physics	• Chemistry	• An advanced science course
<b>Social Studies (3 credits)</b>	• World History or World Geography		• U.S. History	
	• U.S. Government (one-half credit)		• Economics (one-half credit)	
<b>Languages Other Than English (2 credits)</b>	• 2 credits in the same language or			
	• 2 credits from Computer Science I, II, III			
<b>Physical Education (1 credit)</b>				
<b>Fine Arts (1 credit)</b>				
<b>Electives and Career Technical Education (CTE) (5 credits)</b>				
<b>Speech:</b>	• Demonstrated proficiency			

### Did You Know?



### Industry-Based Certification

Students can earn a performance acknowledgement on their diploma by earning an Industry-Based Certification. Industry-Based Certifications assist students in entering into careers.

### Work-Based Learning

Interactions with industry or community professionals in real workplace settings or simulated environments at an educational institution that foster in-depth, firsthand engagement with the tasks required of a given career field, which are aligned to curriculum and instruction. These experiences can include participation in cooperative education, internships, apprenticeships, or mentoring programs in high school which are related to the career interests of the student.

# Texas Education Agency Graduation Toolkit

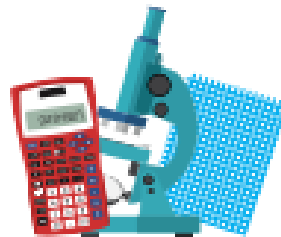
## Endorsement Options – Choices

### Endorsements

Students can earn one or more endorsements as part of their graduation requirements. Endorsements consist of a related series of courses that are grouped together by interest or skill set. They provide students with in-depth knowledge of a subject area.

Students earn an endorsement by completing the curriculum requirements for the endorsement, including 4 credits in both math and science and 2 additional elective credits.

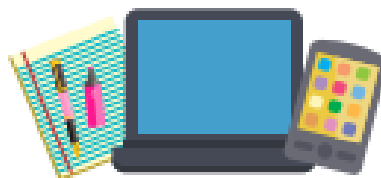
Students can choose from 5 endorsement areas:



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

(one of the following or a combination of no more than two of these categories)

- Career and Technical Education (CTE) courses related to STEM
- Computer Science
- Mathematics
- Science



### Business and Industry

(one of the following or a combination of areas)

- Agriculture, Food and Natural Resources
- Arts, Audio Video Technology and Communications
- Finance
- Marketing
- Hospitality and Tourism
- Information Technology
- Manufacturing
- Technology Applications
- Architecture and Construction
- Business Management and Administration
- Transportation or Distribution and Logistics
- English electives in public speaking, debate, advanced broadcast journalism, advanced journalism including newspaper and yearbook



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## Public Service

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**(one of the following)**

- Human Services
- Law, Public Safety, Corrections and Security\*
- Health Science

- Education and Training
- Government and Public Administration
- Junior Reserve Officer

Training Corps (JROTC)



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## Arts and Humanities

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**(one of the following)**

- 2 levels each in two languages other than English (LOTE)
- 4 levels in the same LOTE

- Courses from one or two areas (music, theater, art, dance) in fine arts
- English electives not included in Business and Industry

- Social Studies
- American Sign Language (ASL)



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## Multi-Disciplinary Studies

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**(one of the following)**

- 4 advanced courses from other endorsement areas

- 4 credits in each foundation subject area, including English IV and chemistry and/or physics and Algebra II

- 4 credits in Advanced Placement, International Baccalaureate, or dual credit selected from English, mathematics, science, social studies, economics, LOTE or fine arts

## Arts and Humanities Endorsement

### What is this?

Regardless of whether it's history, literature, language, or art, students who have an Arts and Humanities Endorsement will learn the best ways to figure out how to understand and relate to people. According to Georgetown Center on Education and the Workforce, being people-focused is the most high-demand, highly compensated skill that students can possess.

Because the areas of study are broad, an Arts and Humanities Endorsement can prepare students for hundreds of different jobs. Careers in this area are varied including audio recording, film and television technology, journalism, broadcasting, and telecommunications.

Success in these fields is limited only by the talent and, more importantly, the drive of the students who have the flexibility to see the full range of directions their talents may lead them! Students have three options for completing an Arts and Humanities Endorsement.

Arts and Humanities Endorsement Fine Arts Option						
English	Math	Science	Social Studies	Required	Electives	Total Credits
English I (EOC)	Algebra I (EOC)	Biology (EOC)	W. Geo or W. Hist	Foreign Language 2.0 credits		
English II (EOC)	Geometry	IPC, Chemistry, or Physics	US History (EOC)	PE 1.0		
English III	Additional Math- Algebra II— recommended	Additional Science	Gov't/Eco	Fine Arts 4.0 credits in a coherent sequence from 1 or 2 disciplines in fine arts		
Additional English	Additional Math	Additional Science				
<b>English 4.0</b>	<b>Math 4.0</b>	<b>Science 4.0</b>	<b>Soc Studies 3.0</b>	<b>Required 7.0</b>	<b>Electives 4.0</b>	<b>26</b>
<b>Distinguished Level of Achievement (DLA):</b> Students completing the Arts and Humanities endorsement must take Algebra II as one of the 4 math requirements in order to complete the DLA and be eligible for the Top 10%.						

\*EOC indicates an End of Course exam required for graduation

### What Fine Arts disciplines are offered?

Humble ISD offers the following additional Fine Arts disciplines.

Visual Arts  
Choir

Dance  
Orchestra

Theater  
Band

\*Some Fine Arts classes may be available as Advanced, Dual Credit, AP, and/or IB. Check with your Fine Arts teacher or campus counselor to see what's available on your campus.

<b>Arts and Humanities Endorsement Languages Other Than English (LOTE) Option</b>						
<b>English</b>	<b>Math</b>	<b>Science</b>	<b>Social Studies</b>	<b>Required</b>	<b>Electives</b>	<b>Total Credits</b>
English I <b>(EOC)</b>	Algebra I <b>(EOC)</b>	Biology <b>(EOC)</b>	W. Geo or W. Hist	Foreign Language 4.0 credits in 1 or 2 Languages		
English II <b>(EOC)</b>	Geometry	IPC, Chemistry, or Physics	US History <b>(EOC)</b>	PE 1.0		
English III	Additional Math - Algebra II– recommended	Additional I Science	Gov't/Eco	Fine Arts 1.0		
Additional I English	Additional Math	Additional I Science				
<b>English 4.0</b>	<b>Math 4.0</b>	<b>Science 4.0</b>	<b>Soc Studies 3.0</b>	<b>Required 6.0</b>	<b>Electives 5.0</b>	<b>26</b>
<b>Distinguished Level of Achievement (DLA):</b> Students completing the Arts and Humanities endorsement must take Algebra II as one of the 4 math requirements in order to complete the DLA and be eligible for the Top 10%.						

\*EOC indicates an **End of Course exam** required for graduation

### **What Languages Other Than English (LOTE) classes are offered?**

Humble ISD offers the following LOTE courses; however, not all courses are offered on all campuses.

French  
Spanish

Spanish

Latin

American Sign Language

\*LOTE classes may be available as On-level, Advanced, Dual Credit, AP, and IB. Check with your LOTE teacher or campus counselor to see what's available on your campus.

Arts and Humanities Endorsement Social Studies Option						
English	Math	Science	Social Studies	Required	Electives	Total Credits
English I <b>(EOC)</b>	Algebra I <b>(EOC)</b>	Biology <b>(EOC)</b>	W. Geo or W. Hist	Foreign Language 2.0		
English II <b>(EOC)</b>	Geometry	IPC, Chemistry, or Physics	US History <b>(EOC)</b>	PE 1. 0		
English III	Additional Math Algebra II– recommended	Additional Science	Gov't/Eco	Fine Arts 1.0		
Additional English	Additional Math	Additional Science	Additional Social Studies courses to total five social studies credits			
<b>Englis h 4.0</b>	<b>Math 4.0</b>	<b>Scienc e 4.0</b>	<b>Soc Studies 5.0</b>	<b>Require d 4.0</b>	<b>Elective s 5.0</b>	<b>26</b>
<b>Distinguished Level of Achievement (DLA):</b> Students completing the Arts and Humanities endorsement must take Algebra II as one of the 4 math requirements in order to complete the DLA and be eligible for the Top 10%.						

\*EOC indicates an **End of Course exam** required for graduation

### What additional Social Studies classes are offered?

Humble ISD offers the following additional Social Studies courses; however, not all courses are offered on all campuses. Ask a Social Studies teacher or check with your campus counselor.

IB History  
IB World Topics  
IB Psychology  
History of Sports in the United States

AP European History  
AP Introductory Psychology  
Personal Dynamics

Sociology  
Psychology

## Business and Industry Endorsement

### What is this?

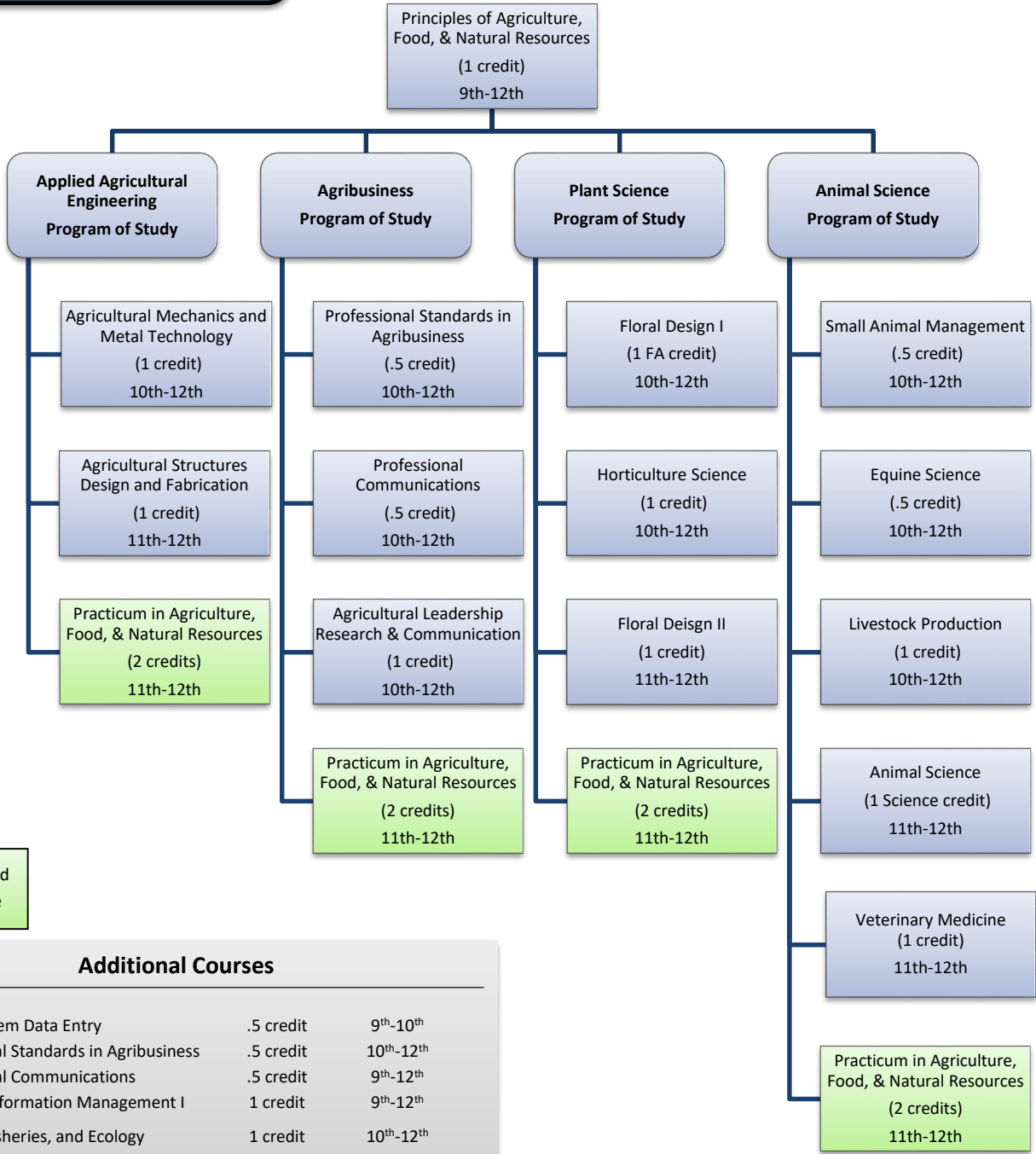
You can write your own ticket to success in the Business and Industry Endorsement! Business impacts everything in our world, and business is thriving in Texas! From small business owners to global corporate headquarters, there is a growing need for employees with strong financial, organizational, time-management, technical, and communication skills.

Because the Business and Industries Endorsement offers 11 different pathways for students, there is something here to interest almost everyone! An Endorsement in Business and Industry offers students the opportunity to explore their interests. Students who want to plan, organize, direct, or evaluate a successful business should consider the Business and Industries Endorsement!

Business & Industry Endorsement						
English	Math	Science	Social Studies	Required	Electives	Total Credits
English I (EOC)	Algebra I (EOC)	Biology (EOC)	W. Geo or W. Hist	Foreign Language 2.0		
English II (EOC)	Geometry	IPC, Chemistry, or Physics	US History (EOC)	PE 1. 0		
English III	Additional Math – Algebra II recommended	Additional I Science	Gov't/Eco	Fine Arts 1.0		
Additional I English	Additional Math	Additional I Science		A coherent sequence of CTE courses for 4 or more credits chosen from one CTE pathways: -Agriculture, Food & Natural Resources -Architecture & Construction -Arts, Audio/Visual -Technology & Communications -Business Management & Administration -Finance -Hospitality & Tourism -Information Technology -Manufacturing -Marketing -Transportation, Distribution & Logistics		
<b>English 4.0</b>	<b>Math 4.0</b>	<b>Science 4.0</b>	<b>Soc Studies 3.0</b>	<b>Required 8.0</b>	<b>Electives 3.0</b>	<b>26</b>
<b>Distinguished Level of Achievement (DLA):</b> Students completing the B & I Endorsement must take Algebra II as one of the 4 math requirements in order to complete the DLA and be eligible for the Top 10%.						

\*EOC indicates an End of Course exam required for graduation

**Agriculture, Food, and Natural Resources Cluster**  
*Business & Industry Endorsement*



Indicates Limited Seating Course

**Additional Courses**

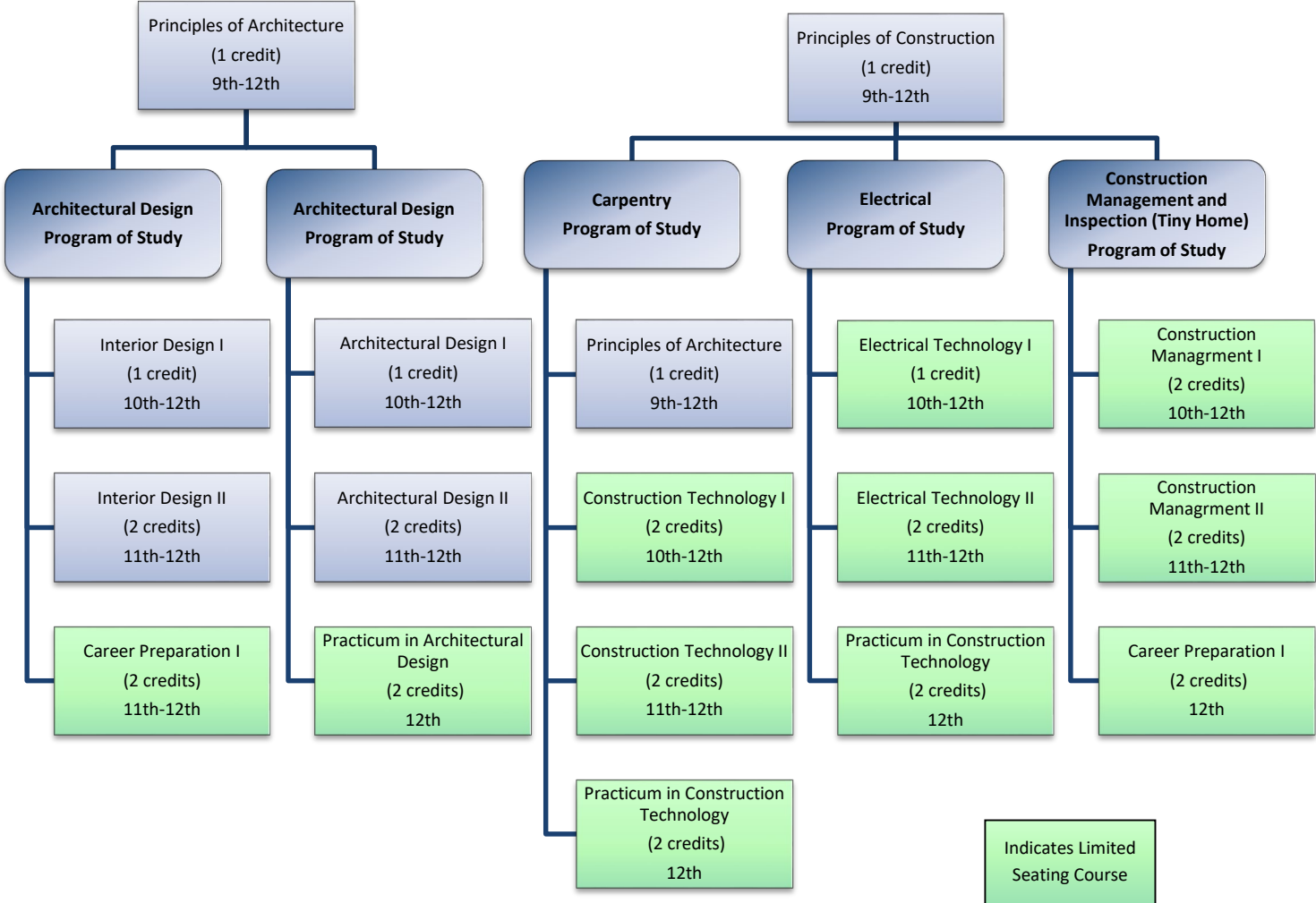
Touch System Data Entry	.5 credit	9 <sup>th</sup> -10 <sup>th</sup>
Professional Standards in Agribusiness	.5 credit	10 <sup>th</sup> -12 <sup>th</sup>
Professional Communications	.5 credit	9 <sup>th</sup> -12 <sup>th</sup>
Business Information Management I	1 credit	9 <sup>th</sup> -12 <sup>th</sup>
Wildlife, Fisheries, and Ecology Management	1 credit	10 <sup>th</sup> -12 <sup>th</sup>
Principles of CTE Ambassadors	1 credit	10 <sup>th</sup> -11 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	11 <sup>th</sup> -12 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	12 <sup>th</sup>

*These courses count toward the above Endorsement and can be taken at any point in the sequence.*

“Limited Seating” courses indicate a limited availability of seats district wide. Entry into a limited seating program is determined using admittance criteria that includes but is not limited to the following: student attendance, grades, discipline, tardies, program concentration, teacher/counselor recommendations, etc. See campus counselor for program admittance process and deadlines.

Students may earn the Business & Industry Endorsement in the Agriculture Cluster by successfully completing 4 or more credits from any combination of pathways above.

**Architecture & Construction Cluster**  
*Business & Industry Endorsement*



**Additional Courses**

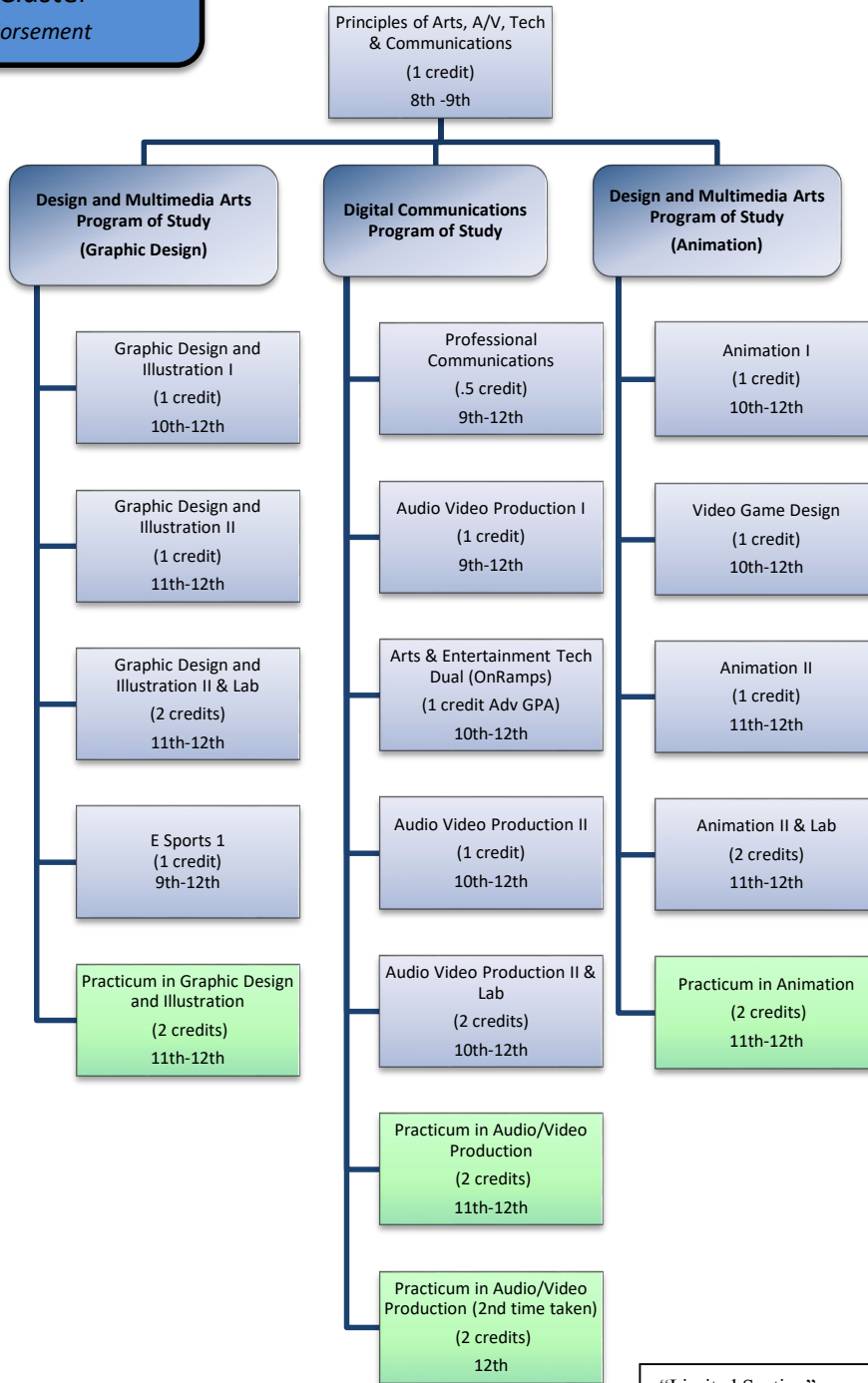
Touch System Data Entry	.5 credit	9 <sup>th</sup> -10 <sup>th</sup>
Professional Communications	.5 credit	9 <sup>th</sup> -12 <sup>th</sup>
Business Information Management I	1 credit	9 <sup>th</sup> -12 <sup>th</sup>
Engineering Design & Presentation I	1 credit	10 <sup>th</sup> -12 <sup>th</sup>
Principles of CTE Ambassadors	1 credit	10 <sup>th</sup> -11 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	11 <sup>th</sup> -12 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	12 <sup>th</sup>

*These courses count toward the above Endorsement and can be taken at any point in the sequence.*

“Limited Seating” courses indicate a limited availability of seats district wide. Entry into a limited seating program is determined using admittance criteria that includes but is not limited to the following: student attendance, grades, discipline, tardies, program concentration, teacher/counselor recommendations, etc. See campus counselor for program admittance process and deadlines.

Students may earn the Business & Industry Endorsement in the Architecture & Construction Cluster by successfully completing 4 or more credits from any combination of pathways above.

**Arts, Audio/Video Technology, and Communications Cluster**  
*Business & Industry Endorsement*



Indicates Limited Seating Course

**Additional Courses**

Touch System Data Entry	.5 credit	9 <sup>th</sup> -10 <sup>th</sup>
Professional Communications	.5 credit	9 <sup>th</sup> -12 <sup>th</sup>
Business Information Management I	1 credit	9 <sup>th</sup> -12 <sup>th</sup>
Computer Science I	1 credit	10 <sup>th</sup> -12 <sup>th</sup>
Principles of CTE Ambassadors	1 credit	10 <sup>th</sup> -11 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	11 <sup>th</sup> -12 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	12 <sup>th</sup>

*These courses count toward the above Endorsement and can be taken at any point in the sequence.*

“Limited Seating” courses indicate a limited availability of seats district wide. Entry into a limited seating program is determined using admittance criteria that includes but is not limited to the following: student attendance, grades, discipline, tardies, program concentration, teacher/counselor recommendations, etc. See campus counselor for program admittance process and deadlines.

Students may earn the Business & Industry Endorsement in the Arts, A/V, & Communications Cluster by successfully completing 4 or more credits from any combination of pathways above.

# Business, Marketing, and Finance Cluster

*Business & Industry Endorsement*

Principles of Business, Marketing, and Finance  
(1 credit)  
8th-11th

**Marketing and Sales Program of Study**

**Business Management Program of Study**

**Accounting and Financial Services Program of Study**

Fashion Marketing  
(.5 credit)  
9th-12th

Business Information Management I  
(1 credit)  
9th-12th

Money Matters  
(1 credit)  
9th-12th

Sports & Entertainment Marketing  
(.5 credit)  
9th-12th

Virtual Business  
(.5 credit)  
10th-12th

Business Information Management I  
(1 credit)  
9th-12th

Virtual Business  
(.5 credit)  
10th-12th

Business Law  
(1 credit)  
11th-12th

Accounting I  
(1 credit)  
10th-12th

Social Media Marketing  
(.5 credit)  
9th-12th

Global Business  
(.5 credit)  
10th-12th

Banking and Financial Services  
(.5 credit)  
10th-12th

Advertising  
(.5 credit)  
9th-12th

Statistics and Business Decision Making  
(1 Math credit)  
11th-12th

Accounting II  
(1 Math)  
11th-12th

Accounting II (Dual)  
(1 Math Adv GPA)  
11th-12th

Statistics and Business Decision Making  
(1 Math credit)  
11th-12th

Practicum in Business Management  
(2 credits)  
11th-12th

Financial Analysis  
(1 credit)  
11th-12th

Practicum in Marketing  
(2 credits)  
11th-12th

Securities and Investments  
(1 credit)  
10th-12th

Practicum in Business Management  
(2 credits)  
11th-12th

Pract. in Business Management (Dual)  
(2 credits Adv GPA)  
12th

Students may earn the Business & Industry Endorsement in the Business, Marketing, and Finance cluster by successfully completing 4 or more credits from any combination of pathways above.

Indicates Limited Seating Course

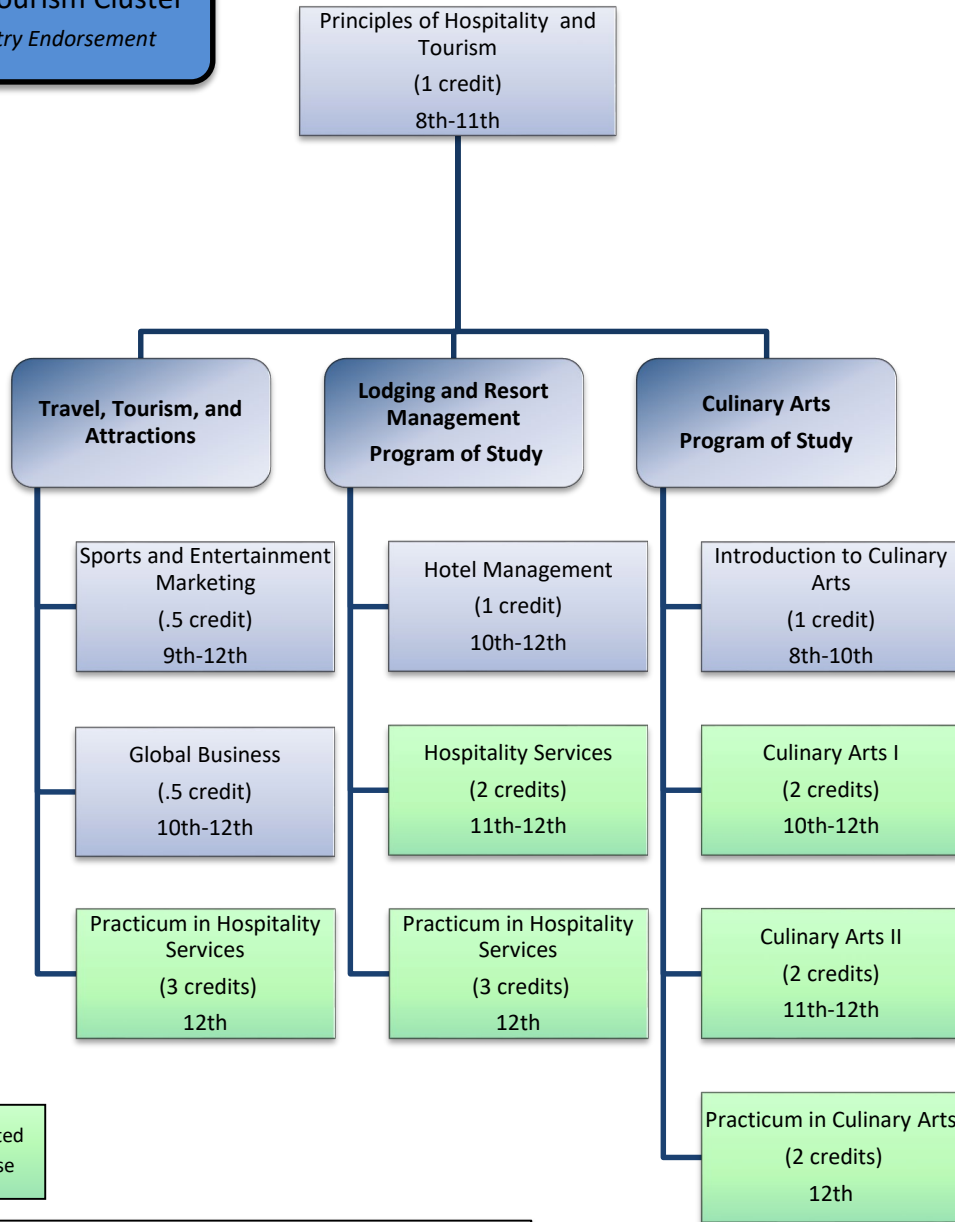
“Limited Seating” courses indicate a limited availability of seats district wide. Entry into a limited seating program is determined using admittance criteria that includes but is not limited to the following: student attendance, grades, discipline, tardies, program concentration, teacher/counselor recommendations, etc. See campus counselor for program admittance process and deadlines.

Additional Courses		
Touch System Data Entry	.5 credit	9 <sup>th</sup> -10 <sup>th</sup>
Professional Communications	.5 credit	9 <sup>th</sup> -12 <sup>th</sup>
Business English	1 Eng credit	12 <sup>th</sup>
Real Estate Agent	1 credit	12 <sup>th</sup>
Principles of CTE Ambassadors	1 credit	10 <sup>th</sup> -11 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	11 <sup>th</sup> -12 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	12 <sup>th</sup>

*These courses count toward the above Endorsement and can be taken at any point in the sequence*

# Hospitality & Tourism Cluster

*Business & Industry Endorsement*



Indicates Limited Seating Course

## Additional Courses

Touch System Data Entry	.5 credit	9 <sup>th</sup> -10 <sup>th</sup>
Professional Communications	.5 credit	9 <sup>th</sup> -12 <sup>th</sup>
Business Information Management I	1 credit	9 <sup>th</sup> -12 <sup>th</sup>
Principles of CTE Ambassadors	1 credit	10 <sup>th</sup> -11 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	11 <sup>th</sup> -12 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	12 <sup>th</sup>

*These courses count toward the above Endorsement and can be taken at any point in the sequence*

“Limited Seating” courses indicate a limited availability of seats district wide. Entry into a limited seating program is determined using admittance criteria that includes but is not limited to the following: student attendance, grades, discipline, tardies, program concentration, teacher/counselor recommendations, etc. See campus counselor for program admittance process and deadlines.

Students not admitted into the capstone course for each Hospitality & Tourism Pathway may earn the Business & Industry Endorsement by successfully completing 4 or more credits from any combination of Business Management & Administration cluster courses.

**Information Technology Cluster**  
Business & Industry Endorsement

Principles of Information Technology  
(1 credit)  
9th-10th

**Web Development Program of Study**

Computer Science I  
(1 LOTE credit)  
10th-12th

Practicum in Information Technology  
(2 credits)  
12th

**Information Technology Support and Services Program of Study**

Computer Maintenance  
(1 credit Adv GP)  
10th-12th

Networking  
(1 credit Adv GP)  
10th-12th

Computer Technician Practicum  
(2 credits)  
11th-12th

Practicum In Information Technology  
(2 credits)  
12th

**Networking Systems Program of Study**

AP Computer Science Principles  
(1 LOTE credit, Adv GPA)  
10th-12th

Computer Science I  
(1 LOTE credit)  
10th-12th

Computer Maintenance  
(1 credit Adv GP)  
10th-12th

Networking  
(1 credit Adv GP)  
10th-12th

CISCO Internetworking Technologies I  
(1 credit Adv GP)  
11th-12th

CISCO Internetworking Technologies II  
(1 credit Adv GP)  
11th-12th

Practicum In Information Technology  
(2 credits)  
12th

“Limited Seating” courses indicate a limited availability of seats district wide. Entry into a limited seating program is determined using admittance criteria that includes but is not limited to the following: student attendance, grades, discipline, tardies, program concentration, teacher/counselor recommendations, etc. See campus counselor for program admittance process and deadlines.

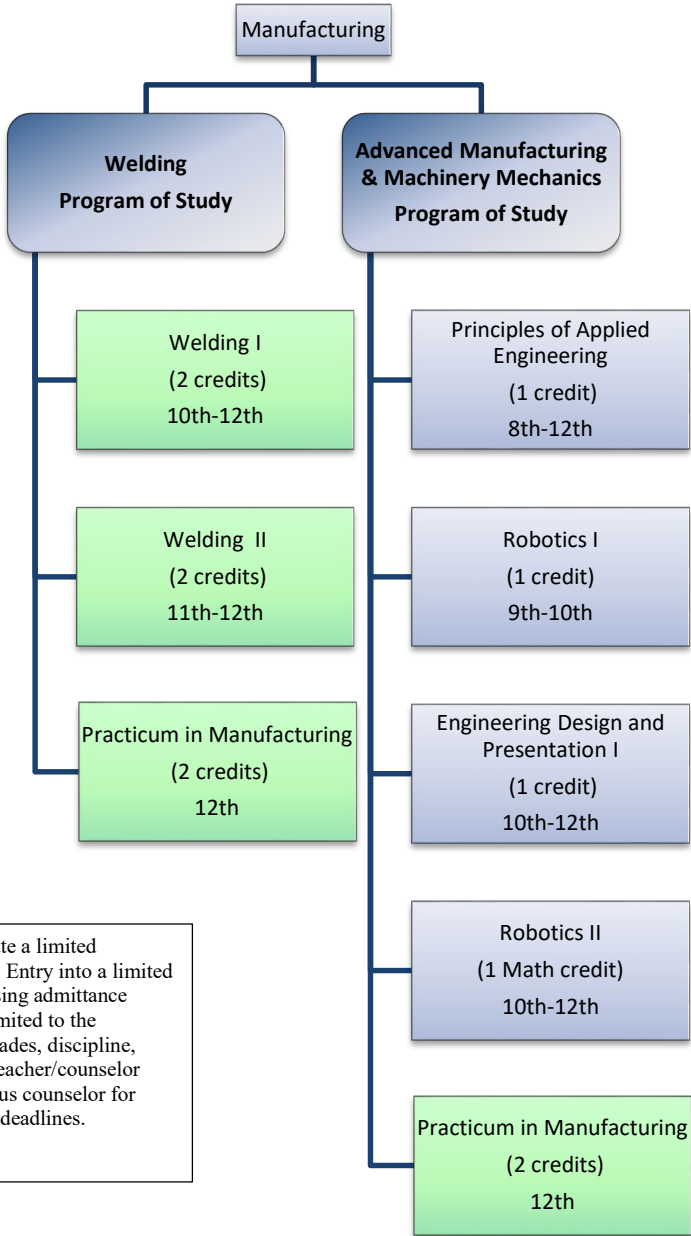
Additional Courses		
Touch System Data Entry	.5 credit	9 <sup>th</sup> -10 <sup>th</sup>
Esports I	1 credit	9 <sup>th</sup> -12 <sup>th</sup>
Professional Communications	.5 credit	9 <sup>th</sup> -12 <sup>th</sup>
Business Information Management I	1 credit	9 <sup>th</sup> -12 <sup>th</sup>
Video Game Design	1 credit	10 <sup>th</sup> -12 <sup>th</sup>
Computer Science II	1 credit Adv GP	11 <sup>th</sup> -12 <sup>th</sup>
Principles of CTE Ambassadors	1 credit	10 <sup>th</sup> -11 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	11 <sup>th</sup> -12 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	12 <sup>th</sup>

*These courses count toward the above Endorsement and can be taken at any point in the sequence*

Students may earn the Business & Industry Endorsement in the Information Technology cluster by successfully completing 4 or more credits. Students should select a pathway above and supplement with other Information Technology courses to achieve 4 credits.

Indicates Limited Seating Course

**Manufacturing Cluster**  
Business & Industry Endorsement



“Limited Seating” courses indicate a limited availability of seats district wide. Entry into a limited seating program is determined using admittance criteria that includes but is not limited to the following: student attendance, grades, discipline, tardies, program concentration, teacher/counselor recommendations, etc. See campus counselor for program admittance process and deadlines.

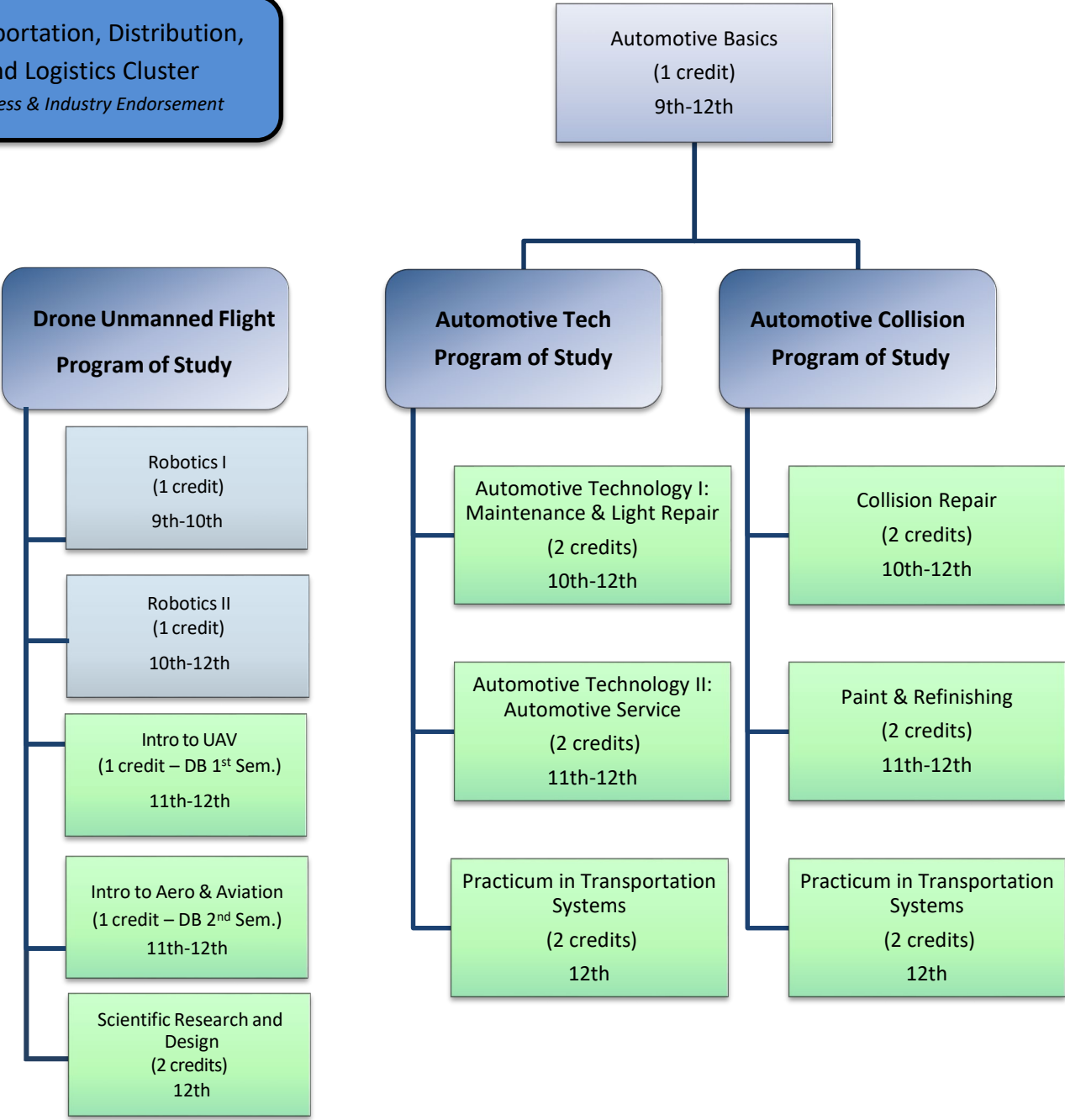
Additional Courses		
Touch System Data Entry	.5 credit	9 <sup>th</sup> -10 <sup>th</sup>
Professional Communications	.5 credit	9 <sup>th</sup> -12 <sup>th</sup>
Business Information Management I	1 credit	9 <sup>th</sup> -12 <sup>th</sup>
Ag Mech and Metal Tech	1 credit	10 <sup>th</sup> -12 <sup>th</sup>
Principles of Agriculture	1 credit	9 <sup>th</sup> -12 <sup>th</sup>
Principles of CTE Ambassadors	1 credit	10 <sup>th</sup> -11 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	11 <sup>th</sup> -12 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	12 <sup>th</sup>

*These courses count toward the above Endorsement and can be taken at any point in the sequence*

Indicates Limited Seating Course

Students may earn the Business & Industry Endorsement in the Manufacturing cluster by successfully completing 4 or more credits in any combination from the courses listed above.

**Transportation, Distribution,  
and Logistics Cluster**  
*Business & Industry Endorsement*



“Limited Seating” courses indicate a limited availability of seats district wide. Entry into a limited seating program is determined using admittance criteria that includes but is not limited to the following: student attendance, grades, discipline, tardies, program concentration, teacher/counselor recommendations, etc. See campus counselor for program admittance process and deadlines.

Additional Courses		
Touch System Data Entry	.5 credit	9 <sup>th</sup> -10 <sup>th</sup>
Professional Communications	.5 credit	9 <sup>th</sup> -12 <sup>th</sup>
Principles of CTE Ambassadors	1 credit	10 <sup>th</sup> -11 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	11 <sup>th</sup> -12 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	12 <sup>th</sup>

*These courses count toward the above Endorsement and can be taken at any point in the sequence*

Indicates Limited Seating Course

Students may earn the Business & Industry Endorsement in the Transportation, Distribution, and Logistics cluster by successfully completing 4 or more credits in any combination from the courses listed above.

**Energy Cluster**  
*Business & Industry Endorsement*

**Refining and Chemical Processes  
 Program of Study**

Foundations of Energy  
 (1 credit)  
 9th-10th

Introduction to Process Technology  
 (1 credit Adv GP)  
 11th-12th

Petrochemical Safety, Health, and Environment  
 (1 credit Adv GP)  
 11th-12th

(TBD) Practicum in Energy  
 (2 credits)  
 12th

“Limited Seating” courses indicate a limited availability of seats district wide. Entry into a limited seating program is determined using admittance criteria that includes but is not limited to the following: student attendance, grades, discipline, tardies, program concentration, teacher/counselor recommendations, etc. See campus counselor for program admittance process and deadlines.

**Additional Courses**

Touch System Data Entry	.5 credit	9 <sup>th</sup> -10 <sup>th</sup>
Professional Communications	.5 credit	9 <sup>th</sup> -12 <sup>th</sup>
Business Information Management I	1 credit	9 <sup>th</sup> -12 <sup>th</sup>
Principles of CTE Ambassadors	1 credit	10 <sup>th</sup> -11 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	11 <sup>th</sup> -12 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	12 <sup>th</sup>

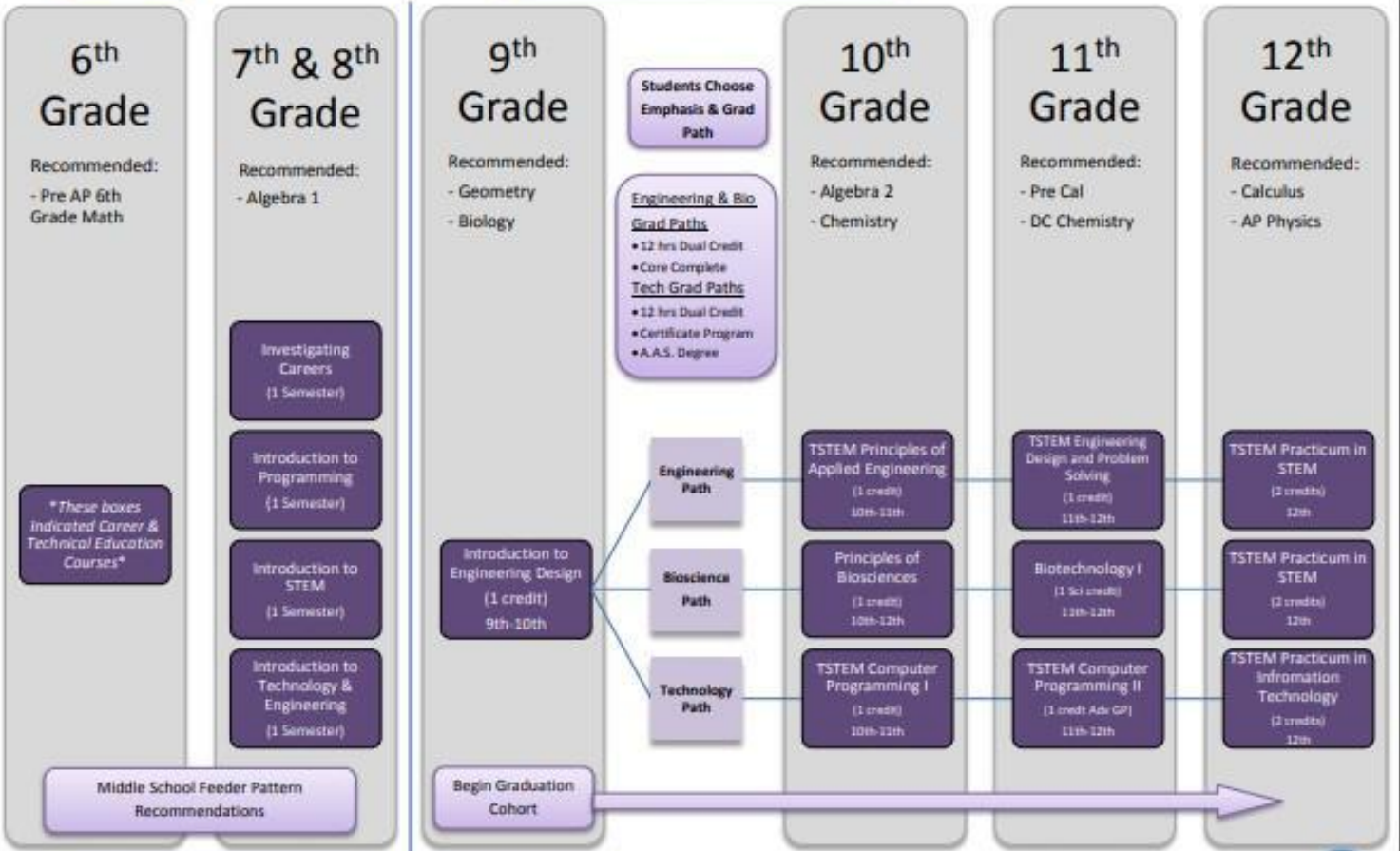
*These courses count toward the above Endorsement and can be taken at any point in the sequence*

Indicates Limited Seating Course

Students may earn the Business & Industry Endorsement in the Energy cluster by successfully completing 4 or more credits in any combination from the courses listed above.



**T-STEM Academy**  
 (Humble High School Only)  
 STEM or Business & Industry Endorsement



## Public Service Endorsement

### What is this?

Students who desire to make a lasting contribution to society by serving their fellow man should consider the Public Service Endorsement. This endorsement offers some of the most in-demand careers in the areas of Health Science, Education, Law, and Public Service.

Humble ISD offers 5 different pathways for students interested in pursuing a Public Service Endorsement.

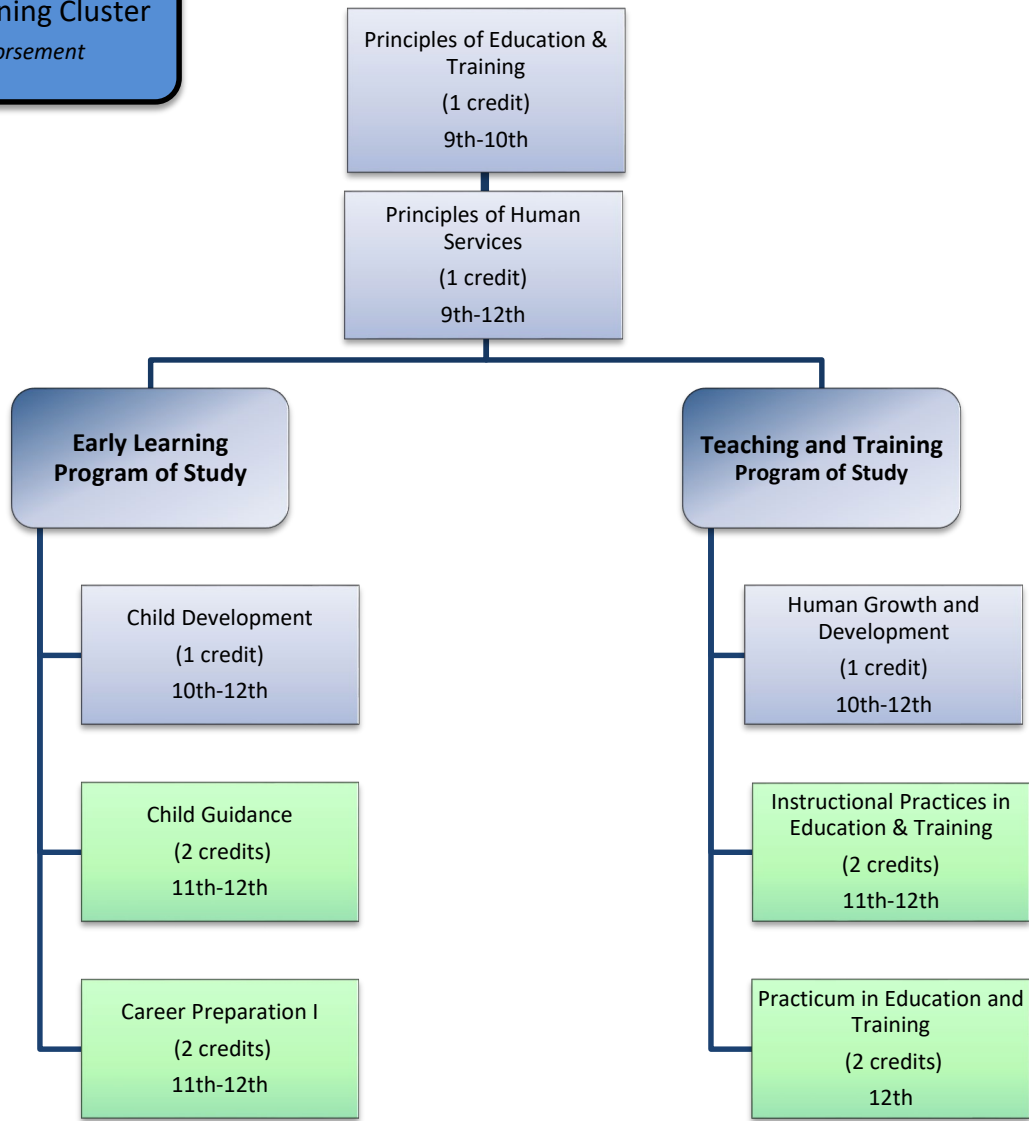
Public Service Endorsement						
English	Math	Science	Social Studies	Required	Electives	Total Credits
English I (EOC)	Algebra I (EOC)	Biology (EOC)	W. Geo or W. Hist	Foreign Language 2.0		
English II (EOC)	Geometry	IPC, Chemistry, or Physics	US History (EOC)	PE 1. 0		
English III	Additional Math	Additional Science	Gov't/Eco	Fine Arts 1.0		
Additional English	Additional Math	Additional Science		A coherent sequence of CTE courses for 4 or more credits from: -Education and Training -Human Services -Law, Public Safety, Corrections & Securities -Health Science -JROTC		
<b>English 4.0</b>	<b>Math 4.0</b>	<b>Science 4.0</b>	<b>Soc Stu die s 3.0</b>	<b>Require d 8.0</b>	<b>Elective s 3.0</b>	<b>26</b>
<b>Distinguished Level of Achievement (DLA):</b> Students completing the Public Service endorsement must take Algebra II as one of the 4 math requirements in order to complete the DLA and be eligible for the Top 10%.						

\*EOC indicates an End of Course exam required for graduation

\*CERT indicates a certification exam requirement.

# Education and Training Cluster

Public Service Endorsement



Indicates Limited Seating Course

Additional Courses		
Touch System Data Entry	.5 credit	9 <sup>th</sup> -10 <sup>th</sup>
Professional Communications	.5 credit	9 <sup>th</sup> -12 <sup>th</sup>
Business Information Management I	1 credit	9 <sup>th</sup> -12 <sup>th</sup>
Family and Community Services	1 credit	11 <sup>th</sup> -12 <sup>th</sup>
Principles of CTE Ambassadors	1 credit	10 <sup>th</sup> -11 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	11 <sup>th</sup> -12 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	12 <sup>th</sup>

*These courses count toward the above Endorsement and can be taken at any point in the sequence.*

Students may earn the Public Service Endorsement in the Education and Training cluster by successfully completing 4 or more credits from any combination of pathways above.

“Limited Seating” courses indicate a limited availability of seats district wide. Entry into a limited seating program is determined using admittance criteria that includes but is not limited to the following: student attendance, grades, discipline, tardies, program concentration, teacher/counselor recommendations, etc. See campus counselor for program admittance process and deadlines.

**JROTC Option**  
Public Service Endorsement

JROTC

**Army Pathway**  
HHS and SCHS

**Air Force Pathway**  
KPHS

**Marines Pathway**  
AHS

**Navy Pathway**  
KHS

Army LET I  
(1 credit)  
9th-12th

Aerospace Science I  
(1 credit)  
9th-12th

Marines LE I  
(1 credit)  
9th-12th

Navy Science I  
(1 credit)  
9th-12th

Army LET II  
(1 credit)  
9th-12th

Aerospace Science II  
(1 credit)  
9th-12th

Marines LE II  
(1 credit)  
9th-12th

Navy Science II  
(1 credit)  
9th-12th

Army LET III  
(1 credit)  
9th-12th

Aerospace Science III  
(1 credit)  
9th-12th

Marines LE III  
(1 credit)  
9th-12th

Navy Science III  
(1 credit)  
9th-12th

Army LET IV  
(1 credit)  
9th-12th

Aerospace Science IV  
(1 credit)  
9th-12th

Marines LE IV  
(1 credit)  
9th-12th

Navy Science IV  
(1 credit)  
9th-12th

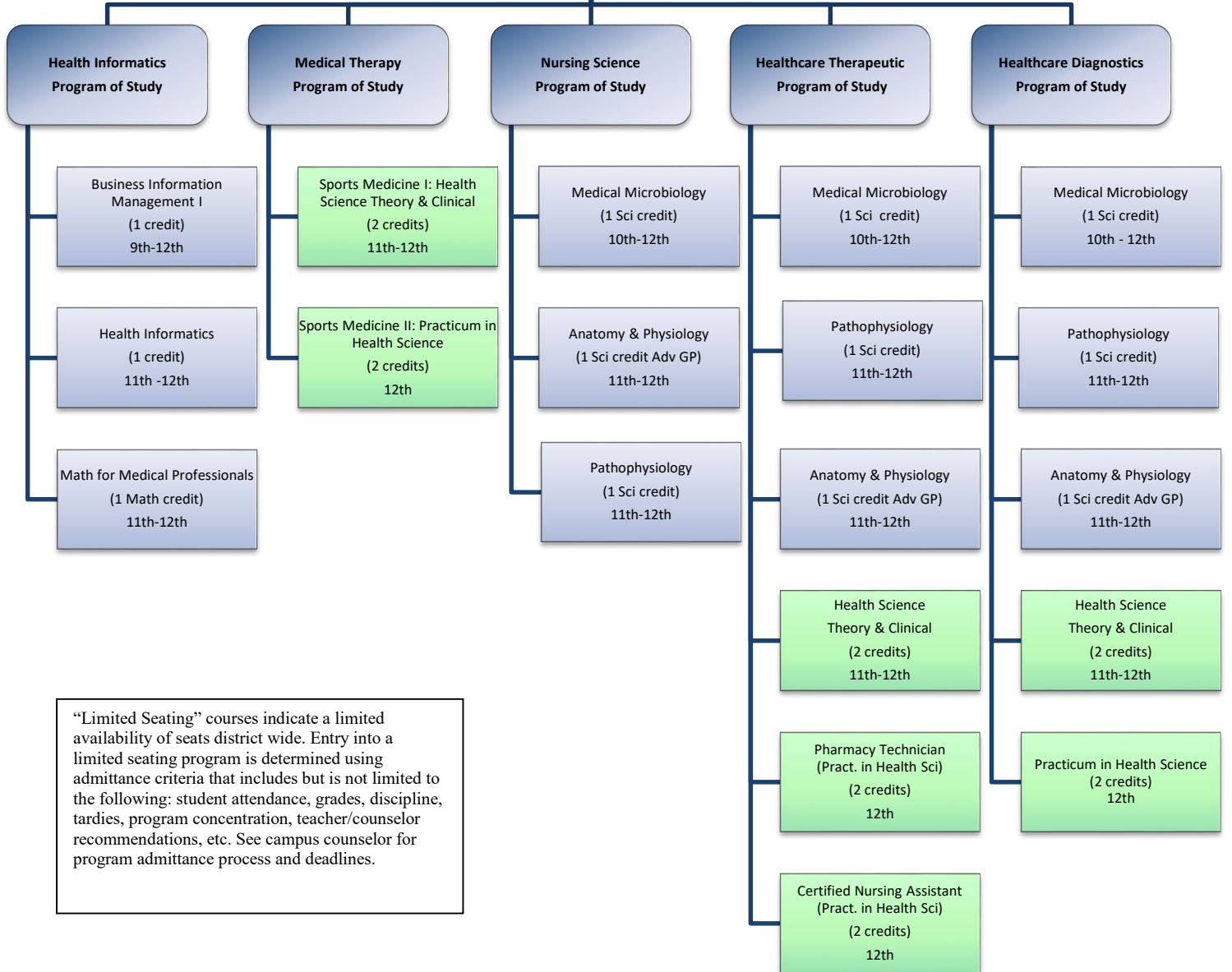
Aviation Honors Ground School  
(1 credit)  
11th - 12th

# Health Science Cluster

Public Service Endorsement

Principles of Health Science  
(1 credit)  
9th-10th

Medical Terminology  
(1 credit)  
10th-12th



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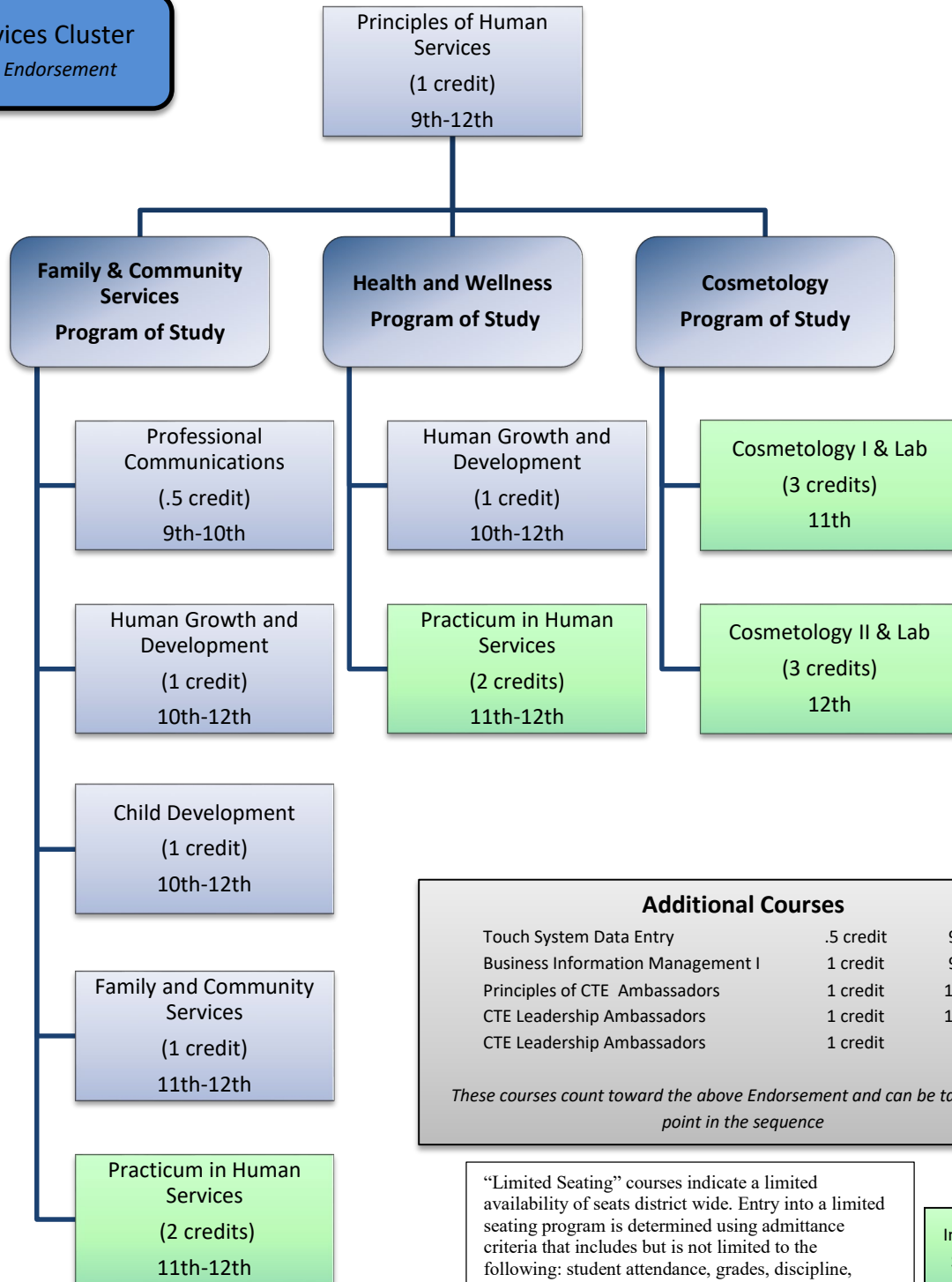
Additional Courses		
Touch System Data Entry	.5 credit	9 <sup>th</sup> -10 <sup>th</sup>
Professional Communications	.5 credit	9 <sup>th</sup> -12 <sup>th</sup>
Business Information Management I	1 credit	9 <sup>th</sup> -12 <sup>th</sup>
Child Development	1 credit	10 <sup>th</sup> -12 <sup>th</sup>
Principles of CTE Ambassadors	1 credit	10 <sup>th</sup> -11 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	11 <sup>th</sup> -12 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	12 <sup>th</sup>

*These courses count toward the above Endorsement and can be taken at any point in the sequence.*

Students may earn the Public Service Endorsement in the Health Science cluster by successfully completing 4 or more credits from any combination of pathways above.

Indicates Limited Seating Course

**Human Services Cluster**  
Public Service Endorsement



**Additional Courses**

Touch System Data Entry	.5 credit	9 <sup>th</sup> -10 <sup>th</sup>
Business Information Management I	1 credit	9 <sup>th</sup> -12 <sup>th</sup>
Principles of CTE Ambassadors	1 credit	10 <sup>th</sup> -11 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	11 <sup>th</sup> -12 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	12 <sup>th</sup>

*These courses count toward the above Endorsement and can be taken at any point in the sequence*

“Limited Seating” courses indicate a limited availability of seats district wide. Entry into a limited seating program is determined using admittance criteria that includes but is not limited to the following: student attendance, grades, discipline, tardies, program concentration, teacher/counselor recommendations, etc. See campus counselor for program admittance process and deadlines.

Indicates Limited Seating Course

Students may earn the Public Service Endorsement in the Human Services cluster by successfully completing 4 or more credits from any combination of the pathways above.

**Law and Public Service Cluster**  
Public Service Endorsement

Principles of Law, Public Safety,  
Corrections, & Security  
(1 credit)  
9th-12th

**Legal Studies  
Program of Study**

Court Systems & Practices  
(1 credit)  
10th-12th

Business Law  
(1 credit)  
11th-12th

Practicum in Law, Public  
Safety, Corrections, and  
Security  
(2 credits)  
11th-12th

**Law Enforcement  
Program of Study**

Criminal Investigation  
(1 credit)  
10th-12th

Law Enforcement I  
(1 credit)  
10th-12th

Federal Law Enforcement and  
Protective Services  
(1 credit)  
10th-12th

Law Enforcement II  
(1 credit)  
10th-12th

Forensic Science  
(1 Science credit)  
11th-12th

Practicum in Law, Public  
Safety, Corrections, and  
Security  
(2 credits)  
11th-12th

**Emergency Services  
Program of Study**

Disaster Response  
(.5 credit)  
10th-12th

Anatomy and Physiology  
(1 credit)  
11th-12th

Emergency Medical Technician  
Basic  
(2 credits)  
12th

Firefighter I @LSC  
(2 credits Adv GP)  
12th

Firefighter II @LSC  
(3 credits Adv GP)  
12th

“Limited Seating” courses indicate a limited availability of seats district wide. Entry into a limited seating program is determined using admittance criteria that includes but is not limited to the following: student attendance, grades, discipline, tardies, program concentration, teacher/counselor recommendations, etc. See campus counselor for program admittance process and deadlines.

Additional Courses		
Touch System Data Entry	.5 credit	9 <sup>th</sup> -10 <sup>th</sup>
Professional Communications	.5 credit	9 <sup>th</sup> -12 <sup>th</sup>
Business Information Management I	1 credit	9 <sup>th</sup> -12 <sup>th</sup>
Principles of CTE Ambassadors	1 credit	10 <sup>th</sup> -11 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	11 <sup>th</sup> -12 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	12 <sup>th</sup>

*These courses count toward the above Endorsement and can be taken at any point in the sequence*

Students may earn the Public Service Endorsement in the Law, Public Corrections, & Security cluster by successfully completing 4 or more credits from any combination of the pathways above.

Indicates Limited Seating Course

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

### What is this?

Scientists, technologists, engineers, and mathematicians are men and women on the cutting edge. They investigate everything from supernovas to tiny subatomic particles. They invent the technologies that make our lives easier and healthier, and they find solutions for the problems that threaten our very existence.

If you are curious about the world around you, want to help the planet by finding solutions to our problems, or want to pursue a profession on the cutting edge of medicine or technology, then **STEM** may be the endorsement for you!

Students have three options for completing a STEM Endorsement.

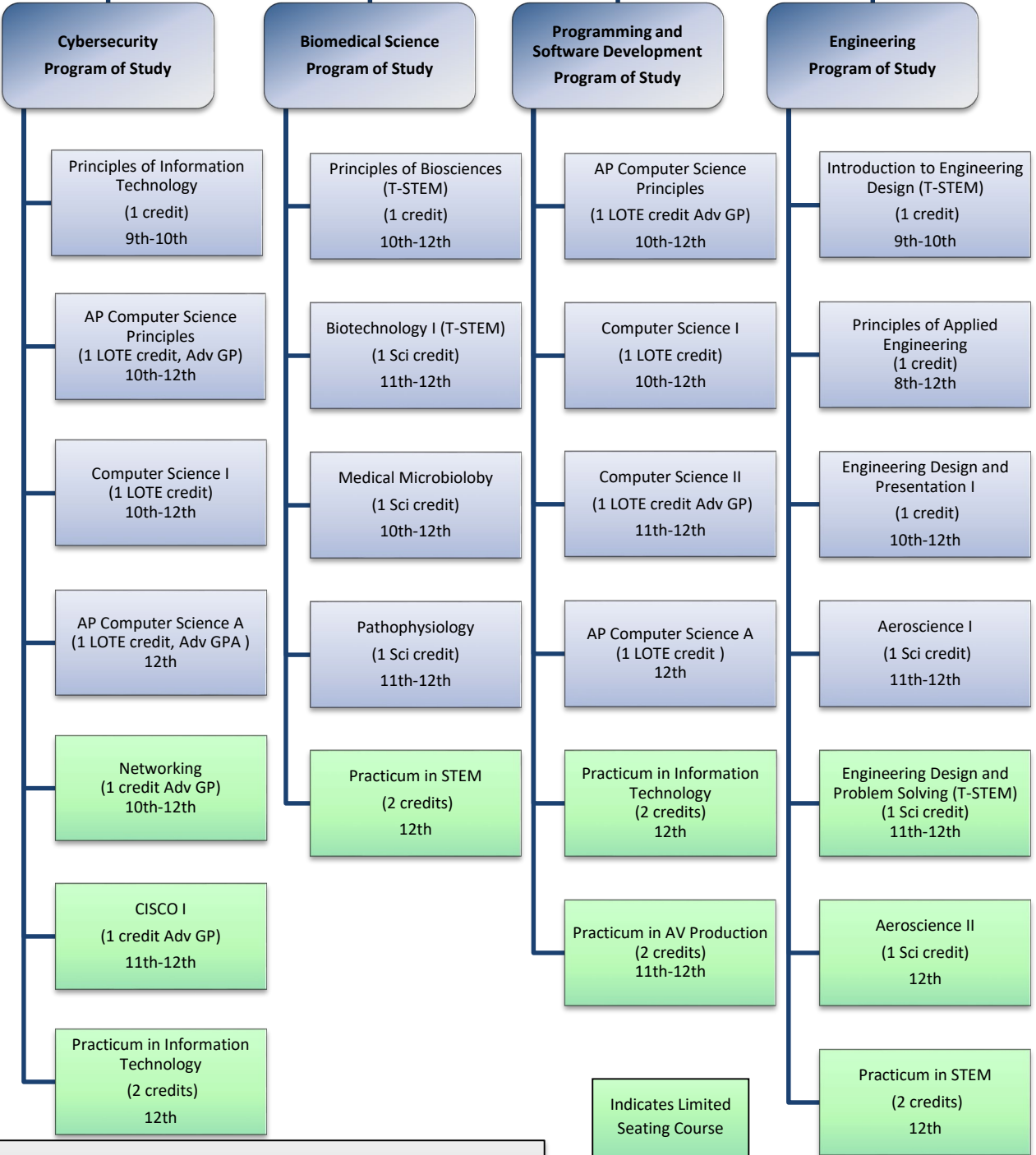
STEM Endorsement Graduation Requirements Engineering Cluster						
English	Math	Science	Social Studies	Required	Electives	Total Credits
English I (EOC)	Algebra I (EOC)	Biology (EOC)	W. Geo or W. Hist	Foreign Language 2.0		
English II (EOC)	Geometry	Chemistry	US History (EOC)	PE or Substitution 1.0		
English III	Algebra II	Physics	Gov't/Eco	Fine Arts 1.0		
Additional English	Additional Math <b>Recommendations:</b> Pre-calculus Calculus	Additional Science		A coherent sequence of courses for 4 or more credits chosen from the STEM cluster		
<b>English 4.0</b>	<b>Math 4.0</b>	<b>Science 4.0</b>	<b>Soc Studies 3.0</b>	<b>Required 8.0</b>	<b>Electives 3.0</b>	<b>26</b>
<b>Distinguished Level of Achievement (DLA):</b> Students completing the STEM endorsement will have met the requirements for the DLA without any additional course requirements and will be eligible for the Top 10%.						

\*EOC indicates an **End of Course exam** required for graduation

# STEM Cluster

STEM Endorsement

## STEM



Indicates Limited Seating Course

### Additional Courses

Touch System Data Entry	.5 credit	9 <sup>th</sup> -10 <sup>th</sup>
Professional Communications	.5 credit	9 <sup>th</sup> -12 <sup>th</sup>
Business Information Management I	1 credit	9 <sup>th</sup> -12 <sup>th</sup>
Medical Terminology	1 credit	10 <sup>th</sup> -12 <sup>th</sup>
Principles of Physics	1 Sci credit	10 <sup>th</sup> -12 <sup>th</sup>
Architectural Design	1 credit	10 <sup>th</sup> -12 <sup>th</sup>
Robotics I	1 credit	11 <sup>th</sup> -12 <sup>th</sup>
Robotics II	1 Math credit	11 <sup>th</sup> -12 <sup>th</sup>
Computer Maintenance	1 credit Adv GP	10 <sup>th</sup> -12 <sup>th</sup>
Principles of CTE Ambassadors	1 credit	10 <sup>th</sup> -11 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	11 <sup>th</sup> -12 <sup>th</sup>
CTE Leadership Ambassadors	1 credit	12 <sup>th</sup>

Students may earn the STEM Endorsement in the STEM cluster by successfully completing 4 or more credits.

“Limited Seating” courses indicate a limited availability of seats district wide. Entry into a limited seating program is determined using admittance criteria that includes but is not limited to the following: student attendance, grades, discipline, tardies, program concentration, teacher/counselor recommendations, etc. See campus counselor for program admittance process and deadlines.

*These courses count toward the above Endorsement and can be taken at any point in the sequence*

STEM Endorsement Graduation Requirements Math Option						
English	Math	Science	Social Studies	Required	Electives	Total Credits
English I <b>(EOC)</b>	Algebra I <b>(EOC)</b>	Biology <b>(EOC)</b>	W. Geo or W. Hist	Foreign Language 2.0		
English II <b>(EOC)</b>	Geometry	Chemistry	US History <b>(EOC)</b>	PE 1.0		
English III	Algebra II	Physics	Gov't/Eco	Fine Arts 1.0		
Additional Eng	2 Additional Math courses for which Algebra II is a prerequisite	Additional Science				
<b>English 4.0</b>	<b>Math 5.0</b>	<b>Science 4.0</b>	<b>Soc Studies 3.0</b>	<b>Required 4.0</b>	<b>Electives 6.0</b>	<b>26</b>
<b>Distinguished Level of Achievement (DLA):</b> Students completing the STEM endorsement will have met the requirements for the DLA without any additional course requirements and will be eligible for the Top 10%.						

\*EOC indicates an End of Course exam required for graduation

### What are additional Math courses for which Algebra II is a prerequisite?

Humble ISD offers the following advanced math courses; however, not all courses are offered on all campuses. Ask a math teacher or check with your campus counselor.

IB Math Studies  
Algebra III  
Pre-Calculus Advanced  
Dual Credit Calculus AB  
Dual Credit Finite Math

Quantitative Reasoning  
Dual Credit College Algebra  
Dual Credit Pre-Calculus  
Dual Credit Calculus BC

AP Calculus BC  
AP Statistics  
AP Calculus AB  
IB Mathematics

STEM Endorsement Graduation Requirements Science Option						
English	Math	Science	Social Studies	Required	Electives	Total Credits
English I (EOC)	Algebra I (EOC)	Biology (EOC)	W. Geo or W. Hist	Foreign Language 2.0		
English II (EOC)	Geometry	Chemistry	US History (EOC)	PE 1. 0		
English III	Algebra II	Physics	Gov't/Eco	Fine Arts 1.0		
Additional Eng	Additional Math	2 Advanced. Science Courses				
<b>English 4.0</b>	<b>Math 4.0</b>	<b>Science 5.0</b>	<b>Soc Studies 3.0</b>	<b>Required 4.0</b>	<b>Electives 6.0</b>	<b>26</b>
<b>Distinguished Level of Achievement (DLA):</b> Students completing the STEM endorsement will have met the requirements for the DLA without any additional course requirements and will be eligible for the Top 10%.						

\*EOC indicates an End of Course exam required for graduation

### What are additional Science courses?

Humble ISD offers the following additional courses; however, not all courses are offered on all campuses, and some are part of a Career and Technology Education Pathway. Ask a Science teacher or check with your campus counselor.

#### Level Grade Points

Advanced Animal Science \*  
 Aeroscience I\*  
 Aeroscience II\*  
 Aquatic Science  
 Astronomy  
 Earth and Space Science  
 Forensic Science\*  
 Medical Microbiology\*  
 Pathophysiology\*  
 Principles of Physics\*  
 TSTEM Biotechnology I\*  
 TSTEM Eng. Design & Problem Solving\*

IB Chemistry I  
 IB Chemistry II  
 IB Biology I  
 IB Biology II  
 IB Physics I  
 IB Physics II  
 IB Environmental Systems & Societies

#### Advanced Grade Points

AP Biology  
 AP Chemistry  
 AP Physics  
 AP Environmental Science  
 Dual Credit Biology  
 Dual Credit Chemistry  
 Dual Credit Anatomy and Physiology of Human Systems\*  
 Anatomy and Physiology of Human Systems\*

\*Career Technology Education Courses

## Multi-Disciplinary Endorsement

### What is this?

Students who choose a Multi-Disciplinary Endorsement will build a broad-based education. This endorsement is not geared toward any particular career but will allow students to design their own program and explore more than one area of interest. Popular programs that have a limited number of seats may not be available for students in the Multi-disciplinary Endorsement as seats are reserved first for students interested in pursuing a career in that endorsement. For example, students in the Business and Industry Endorsement are given priority in the Culinary Arts program.

Humble ISD offers two options for earning a Multi-Disciplinary Endorsement.

Multi-Disciplinary Endorsement Graduation Requirements Core Course Option						
English	Math	Science	Social Studies	Required	Electives	Total Credits
English I <b>(EOC)</b>	Algebra I <b>(EOC)</b>	Biology <b>(EOC)</b>	W. Geography or W. History	Language 2.0 (LOTE or Computer Science)		
English II <b>(EOC)</b>	Geometry	Chemistry, OR Physics	US History <b>(EOC)</b>	PE 1. 0		
English III	Additional . Math	Additional Science	Gov't/Eco	Fine Arts 1.0		
English IV	Additional I Math	Additional I Science	Additional Social Studies			
<b>English 4.0</b>	<b>Math 4.0</b>	<b>Science 4.0</b>	<b>SocStudies 4.0</b>	<b>Required 4.0</b>	<b>Electives 6.0</b>	<b>26</b>
<b>Distinguished Level of Achievement:</b> Students completing the Multi-Disciplinary endorsement must take Algebra II as one of the 4 math requirements in order to complete the DLA and be eligible for the Top 10%.						

Multi-Disciplinary Endorsement Graduation Requirements Advanced Course Option						
English	Math	Science	Social Studies	Required	Electives	Total Credits
English I <b>(EOC)</b>	Algebra I <b>(EOC)</b>	Biology <b>(EOC)</b>	W. Geography or W. History	Language 2.0 (LOTE or Computer Science)		
English II <b>(EOC)</b>	Geometry	IPC, Chemistry, OR Physics	US History <b>(EOC)</b>	PE 1.0		
English III	Additional . Math	Additional Science	Gov't/Eco	Fine Arts 1.0		
Additional English	Additional Math	Additional Science		4 credits in AP/IB/Dual Credit courses chosen from ELA, Math, Science, Social Studies, Fine Arts, LOTE		
<b>English 4.0</b>	<b>Math 4.0</b>	<b>Scienc e 4.0</b>	<b>SocStudies 3.0</b>	<b>Required</b>	<b>Electives</b>	<b>26</b>
<b>Distinguished Level of Achievement:</b> Students completing the Multi-Disciplinary endorsement must take Algebra II as one of the 4 math requirements in order to complete the DLA and be eligible for the Top 10%.						

\*EOC indicates an End of Course exam required for graduation

## What are additional English courses?

Humble ISD offers the following additional English courses; however, not all courses are offered on all campuses.  
Ask your English teacher or check with your campus counselor.



English IV	Literary Genres	Creative Writing
Communication Applications	Debate III	Advanced Broadcast Journalism III
Advanced Journalism: Newspaper III	Advanced Journalism: Yearbook III	AP English Literature and Composition
Dual Credit English IV	College Prep ELA	IB English Literature
Business English	Humanities	Oral Interp III

## What are additional Math courses?

Humble ISD offers the following additional Math courses; however, not all courses are offered on all campuses.  
Ask your Math teacher or check with your campus counselor.

Mathematical Model with Applications	Algebra II	Pre-calculus
Dual Credit Pre-calculus	Quantitative Reasoning	Algebra III
Dual Credit College Algebra	AP Statistics	AP Calculus AB
Dual Credit Calculus AB	AP Calculus BC	Dual Credit Calculus BC
IB Math Studies	IB Mathematics	Algebraic Reasoning
College Prep Statistics	Statistics DC	Math Apps in Ag
College Prep Algebra	Statistics and Business Decision Making	Statistics

## What are additional Science courses?

Humble ISD offers the following additional Science courses; however, not all courses are offered on all campuses.  
Ask your Science teacher or check with your campus counselor.

### Level Grade Points

Advanced Animal Science \*  
Aeroscience I\*  
Aeroscience II\*  
Aquatic Science  
Astronomy  
Earth and Space Science  
Forensic Science\*  
Medical Microbiology\*  
Pathophysiology\*  
Principles of Physics\*  
TSTEM Biotechnology I\*  
TSTEM Eng. Design & Problem Solving\*

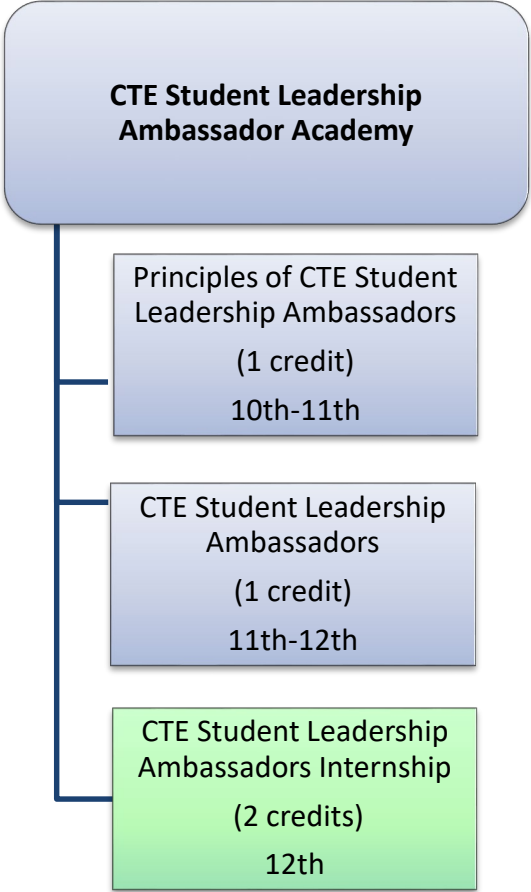
IB Chemistry I  
IB Chemistry II  
IB Biology I  
IB Biology II  
IB Physics I  
IB Physics II  
IB Environmental Systems & Societies

### Advanced Grade Points

AP Biology  
AP Chemistry  
AP Physics  
AP Environmental Science  
Dual Credit Biology  
Dual Credit Chemistry  
Dual Credit Anatomy and Physiology of Human Systems\*  
Anatomy and Physiology of Human Systems\*

\*Career and Technology Education Courses

**CTE Student Leadership  
Ambassador Academy**  
(These course count in CTE endorsements)



“Limited Seating” courses indicate a limited availability of seats district wide. Entry into a limited seating program is determined using admittance criteria that includes but is not limited to the following: student attendance, grades, discipline, tardies, program concentration, teacher/counselor recommendations, etc. See campus counselor for program admittance process and deadlines.

Indicates Limited Seating Course

## Middle School CTE Courses

### MS Course Options (Non HS Credit)

CTE Exploration Wheel  
(Full Year: Eight - 4 1/2 Week Modules)  
6th

Investigating Careers  
(One Semester)  
7th-8th

Introduction to Programming  
(One Semester)  
7th-8th

Introduction to Engineering & Technology  
(One Semester)  
7th-8th

Introduction to STEM  
(One Semester)  
7th-8th

Food for Today  
(One Semester)  
7th-8th

### Options for High School Credit at MS

Touch System Data Entry  
(.5 credit)  
7th-8th

Introduction to Culinary Arts  
(1 credit)  
8th

Principles of Hospitality and Tourism  
(1 credit)  
7th-8th

Principles of Business, Marketing, & Finance  
(1 credit)  
8th

Principles of Applied Engineering  
(1 credit)  
8th

Principles of Arts, Audio/Video Tech, & Comm  
(1 credit)  
8th

# ACADEMIC PROGRAMS

## Course Designations

Core courses in Humble ISD are offered as on-level, Advanced (Advanced), Advanced Placement (AP), Dual Credit, honors, gifted and talented, and International Baccalaureate (IB). A student's course of study may be a combination of courses with different designations. The student, parent, and school will work together to determine the best combination for each learner.

## On-Level Courses

These core courses prepare students for college and post-secondary instruction using a variety of teaching strategies, student activities, and assessments. The curriculum requires students to develop critical thinking and problem solving skills as well as master core content.

## Advanced/AP/IB Courses/Honors

Advanced/AP, IB, and Honors courses are designed to challenge motivated students and prepare them for success in college level coursework in high school and beyond. These Advanced courses move at a faster pace, are more academically challenging and require more independent learning than on-level courses. When selecting Advanced courses, it is important to keep the following in mind:

- Humble ISD's On-Level curriculum is a college-bound curriculum.
- While Advanced courses are designed to prepare students for Advanced academic coursework, Advanced courses are not a prerequisite for enrolling in most AP, IB, Honors, and dual credit courses.
- Some AP courses have course required prerequisites that must be completed, prior to enrollment. Check the course catalog for required prerequisites.
- Advanced/AP/IB is not "all or nothing." Students may take one or more of their core classes as Advanced/AP/IB.
- Students develop academic readiness at different rates and may not be ready for Advanced courses at the same time as their friends or classmates.
- For most courses it is possible to move from on-level to Advanced sections from one year to the next. A student who moves from on-level to Advanced course may require additional support in making the transition.

## Advanced/AP/IB Entry Guidelines

The purpose of the Advanced and AP/IB entry guidelines is to provide information to facilitate placement of students in academically challenging courses.

1. Humble ISD recognizes the value of student participation in Advanced academic coursework and encourages students to graduate from high school with at least one Advanced academic course credit such as AP or dual credit. Humble ISD has an inclusive enrollment model for AP/IB and Advanced courses that provides support systems for student success. Students are encouraged to access the most rigorous curriculum in which they can be successful, generally defined as earning a C or better semester average.
2. Advanced and AP/IB courses are designed to challenge students beyond on-level courses and prepare them for success in future Advanced level coursework. Data provided by student performance in related courses and teacher input are important elements for parents and students to consider in selecting Advanced coursework.

3. Students should recognize the long term benefits of participation, seek assistance when needed, and be committed to staying in the course for a minimum of one semester.

**Note:** Due to the curricular differences between on-level and Advanced courses and for the benefit of students, it is recommended that students enter Advanced courses at the beginning of the course.

### **Advanced/AP/IB Exit Guidelines**

Exit processes are in place to assist students in making sound course selection decisions. Students and parents must be aware that grades earned in an Advanced or AP/IB course follow the student to the on-level course and will be included in the student's overall course average.

1. It is expected that students seek assistance when needed to be successful in the course.
2. Students are expected to remain in the Advanced or AP/IB course at least one full semester.
3. Students petitioning to exit a Advanced or AP course should meet the following criteria:
  - a. Conference with the teacher
  - b. Completion of course assignments
  - c. Attendance at recommended tutorials
  - d. Conference with counselor

The decision to exit will be based on input from the teacher, student performance in the course, availability of space in other courses and timing of the request. Students experiencing success (able to maintain a C or better semester average) in the course should remain in the course for the semester.

### **College Board Advanced Placement (AP) Courses and Examination Program**

Advanced Placement (AP) courses are offered for students who wish to pursue college level studies while in high school. In addition to high school credit, students may receive credit or course placement from participating colleges and universities, provided they make the score required by the college or university, on the College Board Advanced Placement test administered at the conclusion of the course.

College Board Advanced Placement tests may also be taken by students who do not enroll in Advanced Placement courses in high school. Students should go to [www.collegeboard.org](http://www.collegeboard.org) or see their assigned counselor for additional information. Fees for College Board Advanced Placement tests are determined by the Educational Testing Services and are paid by the student.

### **Dual Credit Enrollment for High School and College Credit**

Dual credit enrollment courses are available to high school students who have demonstrated college readiness. These courses may be taken at the high school as part of the student's regular class schedule, or as an online course, or at one of the Lone Star College campuses.

A high school student registering for a college course is considered an exceptional admit student and must complete the exceptional admit enrollment form. Tuition is waived for dual credit courses, but fees still apply.

The dual credit course and the final grade will be transcribed on both the student's high school and college transcript. The only exception would be if the student dropped the course prior to Lone Star College's deadline. Dual credit courses may NOT be taken as pass/fail.

Lone Star College credit may not transfer to all colleges and universities. Check with the institution(s) of your choice. Lone Star College requires students in the dual credit enrollment program to complete each college course with a college grade of "C" or better while still a high school student. Students who receive a "D" or "F" will not be allowed to continue in the dual credit program. Students should be especially mindful of the college drop date for dual credit courses. It is the responsibility of the student to indicate early enough to the counselor that a drop is needed for the college side of a course. If a student is taking the dual credit course with a high school teacher, the student may remain in the high school portion of the course so that there might be a possibility to acquire high school credit for the course.

Instructions and student responsibilities for Early Admissions College Enrollment will be provided as a part of student Advisement. Dual credit courses are offered at the high school level, but the availability of courses varies by campus.

### **Becoming Core Complete While in High School**

For any student who plans on receiving a bachelor's degree from a Texas public university, Texas law requires that they complete a core curriculum of 42 credit hours. Each college or university identifies which of its courses fit into their core curriculum.

**If a student completes the core curriculum with grades of "C" or better and transfers, the entire core curriculum transfers and substitutes for the core curriculum they would have taken at their state college or university.** Students may have to take additional coursework if the transfer school has a larger core curriculum than the school they came from. If students complete only part of the core curriculum before transferring, each course completed should apply to the new school's core curriculum.

Please remember: In some bachelor's degree programs, students take requirements for the major as part of the core curriculum. If a student knows what they plan to major in, it's best to make a transfer plan so that extra course work won't be needed to satisfy a specific degree plan.

**The best way to become Core Complete in high school is to take as many courses as possible that are in the college core curriculum and that also meet high school graduation requirements.** Students in Humble ISD may need to take some core classes at night or during the summer in order to be core complete. This depends on how many of the core classes each high school offers as dual credit; however, all high schools will approve of other courses being used to satisfy high school graduation requirements, if the student works with their counselor to create a plan. At a minimum, a student may have to take 11 semester credit hours (approximately 4 college courses) outside of the normal school day. Most students can finish the majority of the 42 hour core within the regular school program with a concerted effort and well thought out plan.

**Remember, that if a student completes the entire core curriculum with grades of "C" or better, Texas law requires that the receiving Texas institution substitute the completion of the core with their core requirements.**

Students can use the TCCNS website to determine if courses transfer to his/her chosen degree plan. The Texas Common Course Numbering System (TCCNS) is a voluntary, co-operative effort among 136 Texas community colleges and universities to facilitate transfer of freshman and sophomore level general academic coursework. TCCNS provides a shared, uniform set of course designations for students and their Advisors to use in determining both course equivalency and degree applicability of transfer credit on a statewide basis. When students transfer between two participating TCCNS institutions, a course taken at the sending institution transfers as the course carrying the same TCCNS designation at the receiving institution.

The TCCNS website <https://www.tccns.org/> allows students to compare courses across the state for transfer.

**Helpful resources:**

<http://www.thecb.state.tx.us/reports/>

<http://www.thecb.state.tx.us/>

<http://www.collegeforalltexas.com/>

## **Dual Credit Enrollment Courses offered at Lone Star College Campus Locations**

Students may be granted both high school and college credit for college-level courses successfully completed at any Lone Star College Campus if the courses satisfy both the LSC core course requirements and the Foundation High School Program's graduation requirements. (See chart on the following page) Courses may be taken concurrently with high school courses during the regular school year or during the summer. All high school students must be enrolled in at least six courses on the high school campus. Program information is available in the counselor's office.

### **Grading Policies for Dual Credit Courses Taken at Lone Star:**

Lone Star College instructors of dual credit courses **taken** at Lone Star College will submit letter grades for those courses directly to the registrar at each Humble ISD high school. Those letter grades will be converted to the following grades:

- A – 95
- B – 85
- C – 77
- D – 73
- F – 65

Lone Star College's grading scale is different than Humble ISD. Students should refer to the course syllabus for grading standards for each class taken at LSC. Students who receive a D or F in a dual credit course are not permitted to continue in the dual credit program.

### **College Credit Only Courses**

Students meeting Lone Star College Early Admission Program requirements may enroll at any Lone Star College campus for pre-determined college-level courses. All high school students must be enrolled full time on their high school campus. If a student registers for a college course using the **exceptional admit enrollment form** and selects "college credit only," the student pays tuition and fees. Once the course is complete, the student may decide whether to petition the high school for high school course credit. High school credit can be awarded *only for those college classes that match a state-approved high school course*. Students should plan carefully with their high school counselor prior to enrollment in these college classes if they plan on petitioning for high school credit.

## Lone Star College Core Curriculum

**Core Curriculum** – an academic program guaranteed to transfer to any Texas public college or university as a block of courses fulfilling college freshman and sophomore requirements for a major or degree plan.

**Core Complete** – allows students who successfully complete the 42 semester credit hour core curriculum at LSCS to **transfer the full block of courses** to any Texas public college or university. LSCS core curriculum **must** be substituted for the core curriculum at Texas public colleges or universities. Core curriculum courses **may** be transferred individually to other Texas public colleges and universities.

The chart below shows the college courses needed for a student to become Core Complete. Many of the courses are offered as Dual Credit in Humble ISD, however, some courses may not currently be offered in-district and are noted with a # in the chart. Students wishing to take a course that is currently not offered in the district should speak with their counselor to discuss their options.

Core Component Area	College Course	High School Course	HS Credit
<b>Communication - 6 hrs</b> <i>(ENGL 1301 + choose 1 SPCH course)</i>	ENGL 1301(req'd)	1141DA – English 4 H Dual A	0.5
	SPCH 1311	1170D – Comm Apps H Dual	0.5
	SPCH 1315	1170D – Comm Apps H Dual	0.5
	SPCH 1318	1170D – Comm Apps H Dual	0.5
	SPCH 1321	1170D – Comm Apps H Dual	0.5
<b>Mathematics – 3 hrs</b> <i>(choose 1 course)</i>	MATH 1314	223030 – College Algebra Advanced Dual	1.0
	MATH 1316	2233DA – PreCal Advanced Dual (Fall)	0.5
	MATH 1324	223130 – Finite Math	1.0
	MATH 1342	223430 – Statistics Dual	1.0
	MATH 2413	2243D – AP Calculus AB Dual	1.0
<b>Life &amp; Physical Science – 8 hrs</b> <i>(choose 2 courses)</i>	BIOL 1406		0.5
	BIOL 1407	3329DA – AP Biology Dual Fall)	0.5
	BIOL 1408	3329DB – AP Biology Dual (Spring)	0.5
	BIOL 1409	3329DA – AP Biology Dual Fall)	0.5
	BIOL 2401	3329DB – AP Biology Dual (Spring)	0.5
	BIOL 2402	CT750DA – Anat & Physiology H Dual (Fall)	0.5
	CHEM 1405	CT750DB – Anat & Physiology H Dual(Spring)	
	CHEM 1411		1.0
	CHEM 1412		
	ENVR 1401	3331D – Intro Chemistry H Dual	0.5
	GEOL 1403#	3334DA – AP Chemistry Dual (Fall)	0.5
	GEOL 1404#	3334DB – AP Chemistry Dual (Spring)	1.0
	GEOL 1445#	333033 – AP Environ Science Dual	
	GEOL 1445#		
	PHYS 1401		
	PHYS 1402#		
	PHYS 1403#		1.0
PHYS 1404#			
PHYS 1410#	3335D – AP Physics Year 1 Dual		
PHYS 2425#			
PHYS 2426#			

Core Component Area	College Course	High School Course	HS Credit
<b>Creative Arts – 3 hrs</b> <i>(choose 1 course)</i>	ARTS 1301	570734 – Art Appreciation Dual	1.0
	ARTS 1303#		
	ARTS 1304#		
	DANC 2303#	570034 – Music Appreciation Dual	1.0
	MUSI 1306#		
	MUSI 1307#		
<b>Language, Philosophy, and Culture – 3 hrs</b> <i>(choose 1 course)</i>	MUSI 1310#	578634 - Theatre Arts Dual	1.0
	DRAM 1310		
	SPAN 2311	5636D – Spanish 3 Advanced Dual	1.0
	SPAN 2312	5637D – AP Spanish 4 Dual	1.0
	HUMA 1302	1146D – Humanities H Dual	0.5
	FREN 2311	5606D – French 3 Advanced Dual	1.0
	FREN 2312	5607D – AP French 4 Dual	1.0
	GERM 2311	5616D – German 3 Advanced Dual	1.0
	GERM 2312	5617D – AP German 4 Dual	1.0
	SGNL 2301#		
	SGNL 2302#		
	PHIL 1301#		
	PHIL 1304#		
	PHIL 2306#		
PHIL 2307#			
PHIL 2316#			
PHIL 2321#			
<b>History – 6 hrs</b> <i>(2 courses)</i>	HIST 1301	4431DA – US History H Dual A	0.5
	HIST 1302	4431DB – US History H Dual B	0.5
<b>Government – 6 hrs</b> <i>(2 courses)</i>	GOVT 2305	444130/4441DV – US Govt H Dual	0.5
	GOVT 2306	444230 – US Govt 2 H Dual	0.5
<b>Social/Behavioral Science – 3 hrs</b> <i>(choose 1 course)</i>	ECON 2301	445130/4451DV – Econ Dual	0.5
	PSYC 2301	446130/4461DV – Psychology Dual	0.5
	SOCI 1301	446230 – Sociology Dual	0.5
	HIST 2311#		
	HIST 2312#		
	HIST 2321#		
	HIST 2322#		
	CRIJ 1301#		
CRIJ 1307#			
GEOG 1303#			
<b>Component Area – 4 hrs</b> <i>(2 courses)</i>	ENGL 1302 (3hrs)	1141DB – English 4 H Dual B	0.5
	PHED 1164 (1 hr)	**5501D – PE Dual**	0.5

\*\* = All dual credit courses earn Advanced grade points except PE.

# = Courses are not currently offered in-district.



## Guy M. Sconzo Early College High School Sample Course Walk

### Guy M. Sconzo Early College High School

In partnership with Lone Star College-Kingwood, Guy M. Sconzo Early College High School is a small school located within Humble High School where qualified students can earn both a high school diploma and an **Associate's degree or up to two years of credit toward a Bachelor's degree -- tuition FREE.**

### **Guy M. Sconzo Early College High School:**

- Provides dual credit/college credit **at no cost** to students
- Creates a seamless transition from high school to college
- Offers rigorous instruction and accelerated courses - view our coursewalk here
- Offers service-learning and internship opportunities in the community
- Provides academic and social support services to help students succeed
- Increases college readiness
- Reduces barriers to college access
- Provides transportation for students

### **Early College High School Student Characteristics:**

- College ready
- Is underrepresented
- Shows maturity for age
- Desires to attend college
- Could be the first in his/her family to attend college
- Willing and able to spend time on academics (two to three hours per night)
- Willing to give up participation in UIL
- Needs financial help to start college
- Willing to leave home high school campus

In order to attend Guy M. Sconzo Early College High School, eighth grade students must submit an application in January of their 8<sup>th</sup> grade year. More information on the application process can be found here: <http://www.humbleisd.net//site/Default.aspx?PageID=24865>.

Students will not be accepted for GMSECHS admission after their ninth grade year unless they are transferring from another Early College High School within Texas.

TSI testing: Sconzo students are tested before their freshman year to see where they may be eligible for dual credit, but then are tested only for upcoming courses still needing passing scores.

GMSECHS students will be on the Foundation High School Program with the Distinguished Level of Achievement.

GMSECHS students will have the opportunity to earn the following endorsements:

- Multidisciplinary Advanced Course Option
- STEM – Math or Science Option
- Arts & Humanities – Social Studies Option or LOTE Option

## Sconzo Early College High School Sample Course Walk

### 9<sup>th</sup> Grade

SECHS	LSC-K	CR
English 1 PAP		1
Alg 1H or Geom PAP		1
IPC Adv or Chem PAP		1
AP Human Geog		1
Span 1 or 2		1
AVID	EDUC 1300 (3)	1
Bus Inf Mgmt 2	COSC 1301 (3)	1
PE	PHED 1164 (1)	.5
Service		.5
<b>Totals</b>	<b>4-8</b>	<b>8</b>

### 10<sup>th</sup> Grade

SECHS	LSC-K	CR
English 2 PAP		1
Geom Adv or Alg 2 Adv		1
Bio Adv or Dual	BIOL 1408/9 (8)	1
W Hist or US Hist	HIST 1301/2 or 2322 (3-6)	1
Spanish 2 or 3		1
AVID		1
Theater Arts	DRAM 1310 (3)	1
PE	KINE 2111	.5
Service		.5
<b>Totals</b>	<b>18</b>	<b>8</b>

### 11<sup>th</sup> Grade

SECHS	LSC-K	CR
English 3 Dual	ENGL 1301/2 (6)	1
Alg 2 PAP or College Alg	MATH 1314 (3)	1
Physics or Env Sci Dual	ENVR 1401 (4)	1
Gov't/Adv SS	GOVT 2305/6 (6)	1
Economics		.5
AVID		1
Service		.5
Humanities/Comm Apps	HUMA 1301 (3) SPCH 1311 (3)	1
<b>Totals</b>	<b>25</b>	<b>7</b>

### 12<sup>th</sup> Grade

SECHS	LSC-K	CR
English 4	ENGL 2323 (3)	1
Precal or College Math	MATH 1314/16 2412 (3-6)	1
College Science	BIOL, CHEM, ENVR (8)	2
AVID		1
Service		.5
Psychology	PSYC 2301 (3)	.5
Spanish 3/4	SPAN 2311/12 (6)	2
<b>Totals</b>	<b>26</b>	<b>8</b>

SECHS students will be on the Foundation High School Program with the Distinguished Level of Achievement.

SECHS students will have the opportunity to earn the following endorsements:

- Multidisciplinary Advanced Course Option
- STEM – Math or Science Option
- Arts & Humanities – Social Studies Option or LOTE Option

## International Baccalaureate Diploma Program

Students who pursue the International Baccalaureate Diploma will benefit from a sophisticated academic program that builds confidence and college-level scholastic abilities. IB Diploma candidates benefit from the highly-regarded program, often earning college credits, realizing scholarship opportunities, and demonstrating outstanding achievement as a result of the level of academic rigor found within IB coursework.

International Baccalaureate (IB) courses are offered for eleventh and twelfth grade students who apply and are accepted into the IB Diploma Program. The Diploma Program offers sophisticated academic work that is presented within a prestigious curriculum program, one that is internationally recognized as a highly-regarded, comprehensive college preparatory program.

In addition to high school credit, students may receive college credit or appropriate placement from participating colleges provided they make an acceptable score on the International Baccalaureate examinations.

*For information concerning the IB Diploma Program, please contact the Humble High School IB Office at 281-641-6541 or access the HHS IB Diploma website at [www.humbleisd.net/hhs/ib](http://www.humbleisd.net/hhs/ib).*

## University of Texas OnRamps Dual Enrollment Program

Another option students have in Humble ISD to pursue college credit is through UT OnRamps courses. OnRamps follows a dual-enrollment model in which students have both a high school teacher and a UT professor that deliver course content through in-person and hybrid instruction. Students enrolled in OnRamps courses do not have to meet TSIA eligibility requirements to enroll in the course, and have the option to accept or forgo the college grade/credit at the end of the course.

## Deciding between Advanced Placement (AP), Dual Credit(D), and OnRamps (OR) Courses

	<b>Advanced Placement (AP)</b>	<b>Dual Credit</b>	<b>UT OnRamps</b>
<b>Description</b>	The AP Program allows students to take college-level courses and exams while in high school. A score of 3+ on the culminating exam at the end of the school year may result in college credit. or placement.	Dual Credit Allows high school students to earn both high school and college credit by completing courses at the high school and/or college campus.	Allows high school students to earn both high school and college credit by completing courses at the high school campus
<b>Credit</b>	College credit may be awarded depending on the student's score on the AP exam. Individual colleges and universities, determine course credit and/or placement.	High school and college credit through Lone Star College (LSC) is awarded when the student passes the course.	High school and college credit through UT Austin is awarded when the student successfully passes the course
<b>Teachers/ Instructors</b>	Taught by high school teachers who have completed AP training.	Taught by high school teachers who are qualified and serve as adjunct college professors.	Taught by high school teachers who have completed UT training in conjunction with a UT professor
<b>College/University Acceptance</b>	Accepted at thousands of universities around the world. Typically requires a score of 3 or higher on the AP exam. Students should check with their chosen universities to see if AP credit may be awarded.	Accepted at public (and some private) colleges and universities in Texas as well as many outside of Texas. Requires semester average of C or better for transferability	Accepted at public and private colleges and universities that accept UT Austin transcripts. Requires a passing course grade in order to receive college credit.
<b>Location</b>	AP courses are taken at the high school campus or online.	Dual Credit courses are taken at the high school or college campus or online.	UT OnRamps Courses are taken at the high school and OnRamps course offerings vary per high school campus
<b>Eligibility</b>	Open to any high school student.	Open to all grades levels who meet specified college readiness standard scores.	Open to any high school student
<b>Cost</b>	Textbooks are provided by HISD. The student must pay for each AP Exam they choose to take at the end of each course.	Textbooks are provided by HISD for courses taken at the HS campus. LSC tuition is <b>FREE</b> but students are responsible for fees.	Course fees apply (\$150 or \$99 for students who qualify for free/reduced lunch), however multiple options exist to help defray course costs for all students

### **Gifted and Talented Courses (Advanced Academic Coursework)**

Students who have been identified for GT programming receive a wide range of instructional options. Gifted and Talented/Advanced and AP, and IB Diploma courses differentiate an accelerated curriculum that emphasizes content, independent studies, and products to enrich and extend the students' thinking process. Throughout high school, students identified as gifted and talented are served primarily through Advanced academics subject area courses in the students' area of interest(s) and/or strength(s). Students identified as gifted and talented must be enrolled in at least one Advanced academics course in order to receive services and remain identified as gifted and talented. Students no longer wishing to pursue gifted and talented services should discuss the possibility of a furlough or exit with the Building Selection Committee.

GT students are served through the following core-subject area course types: GT, Advanced, AP, UT OnRamps, and Dual Credit.

### **AVID Elective Class**

AVID (Advancedancement Via Individual Determination) is an Advanced academic elective course that prepares students for college readiness and success, and it is scheduled during the regular school day as a year-long course. Each week, students receive instruction that utilizes a rigorous college-preparatory curriculum provided by AVID Center, tutor-facilitated study groups, motivational activities, and academic success skills. In AVID, students participate in activities that incorporate strategies focused on writing, inquiry, collaboration, organization, and reading to support their academic acceleration. Additionally, students engage in activities centered around exploring college and career opportunities and their own agency.

AVID is available to Humble ISD students in sixth through twelfth grade, depending on acceptance into the program. All AVID students are required to enroll in Advanced academic courses.

**\*Enrollment in all AVID classes is contingent upon acceptance into the AVID program.**

### **Limited Seating Courses**

"Limited Seating" courses indicate a limited availability of seats district wide. Entry into a limited seating program is determined using admittance criteria that includes but is not limited to the following: student attendance, grades, discipline, tardies, program concentration, teacher/counselor recommendations, etc. See campus counselor for program admittance process and deadlines.

## INSTRUCTIONAL SUPPORTS

### **English for Speakers of Other Languages**

Students who are English Learners (EL) may be eligible and have a need to be enrolled in English for Speakers of Other Languages as the English language arts program. The primary goal of this program is to support the English Learners to become proficient in listening, speaking, reading, comprehending, and writing for the successful mastery of the requirements outlined in the Texas Administrative Code and district guidelines in all programs.

All decisions about English Learners are made by the Language Proficiency Assessment Committee (LPAC). The LPAC is composed of a certified ESL teacher, an administrator, and a parent of an active English Learner receiving services.

### **Special Education**

Students with disabilities may be eligible for and need special education services. The Humble Independent School District offers a wide range of instructional options for students with disabilities through services designed to meet educational needs specific to each individual student. These instructional options range from placement in the general education classroom with support services to placement in highly specialized classes that may be located at a campus other than the student's home campus. Students with disabilities may also need related services when necessary for the student to benefit from special education instruction (see Index/Special Education). The potential effects that specialized instruction may have on graduation are considered by the ARD committee.

## GENERAL INFORMATION

### **Scheduling and Placement**

Students will explore career pathways and will plan their 4 years of high school using the Naviance Student website, [Naviance Student](#). These plans will be reviewed by the student and the counselor annually to ensure that the student is on track for graduation and to make any needed adjustments. Verification sheets containing next year's course selections are distributed to students and their families for review prior to the end of the current school year. Course selection must be carefully considered. A parent signature may be requested for the verification sheet. For special education students, any changes in special education classes, career and technical courses, or changes in modifications for general education classes require an ARD committee review.

Students entering Humble ISD from non-accredited public, private, or parochial schools, including home schools, shall be placed initially at the discretion of the principal/counselor, pending observation by classroom teachers, guidance personnel, and the principal. Placement criteria includes, but may not be limited to, credit by examination and correspondence courses.

Students who are home-schooled may choose to enroll in one or two elective classes on the high school campus, based on availability, through the Humble ISD Home-School Charter Program. Home-schooled students are not allowed to participate in UIL or UIL type events.

### **Credits**

All credits must be completed in grades 9-12 except high school courses satisfactorily completed in middle school. Only courses approved by the State Board of Education (SBOE) and listed in Chapter 75 of the Texas Administrative Code may be used to meet graduation requirements. All courses listed in this guide are state approved except those noted as "Local Credit" developed to meet identified needs or interests. Local credit and grades are awarded to these courses to document participation.

Credits for students in grades 9-12 are awarded on a semester by semester basis – ½ credit per semester. However, in a two (2) semester course, one (1) credit will be earned if the combined average of the two (2) semester grades in a single academic year (not including summer school) is 70 or greater. Partial credit (.5 credit), shall be earned by a student who earns a passing grade for one semester, fails the other, and the average of the two (2) semesters in that course is lower than 70.

Credit may also be earned by completing correspondence courses, dual credit courses, online courses, and credit by examination (CBE) for acceleration, verification, or recovery **if the student has obtained prior approval from his or her counselor.**

## **STAAR and EOC Assessments**

### STAAR EOC Assessments

The State of Texas Assessments of Academic Readiness (STAAR®) program, implemented in spring 2012, includes annual assessments for the following end-of-course (EOC) assessments:

- Algebra I
- Biology
- English I (includes Reading and Writing)
- English II (includes Reading and Writing)
- U.S History.

Students are required to take all five EOC assessments as they complete each corresponding course for graduation.

If a student is enrolled in grade 8 or below and is taking a course for which there is a STAAR EOC assessment, that student will be required to take the applicable STAAR EOC test. For example, an eighth grade student enrolled in Algebra I for high school credit will take the STAAR Algebra I EOC, as well as the grade 8 reading, science, and social studies assessments.

## Pass/Fail

To encourage more students to participate in upper level courses and to pursue specific interests in a four-year sequence of courses for which there is no honors designation, the district will allow high school students to apply for a Pass/Fail grading option for any course above and beyond graduation requirements. Courses taken as Pass/Fail will not count towards graduation requirements, including endorsements. Students may take up to four credits (eight semesters) as Pass/Fail. These Pass/Fail courses will be excluded in the computation of grade point averages and class rank. Pass/Fail applications must be submitted each semester.

Students who elect this option:

- must conference with the counselor and obtain an application;
- must submit the application with all appropriate signatures to the counselor one week after receiving the 1<sup>st</sup> or 3<sup>rd</sup> 9 weeks report card;
- may not request a change back to a traditional numerical grade on the transcript, once the Pass/Fail option is approved;
- will receive numerical grades on progress reports and report cards for eligibility purposes;
- will receive a P(Pass) or F(Fail) for the semester grade associated with that course(s) on the transcript;
- may **NOT** Pass/Fail a dual credit course

Teachers will continue to promote academic success by:

- encouraging students to attend tutorials if necessary;
- monitoring student progress by grading student work in a timely manner;
- communicating with parents regarding concerns about attendance, academics, or behavior;
- adhering to district policies regarding grading and reporting of student progress at 3-week, 6-week, and 9-week intervals.

## Credit for High School Courses Taken during Middle School

Middle school students completing high school courses at the middle school campus shall receive credit that applies toward both state and subject area graduation requirements. Grade points for these courses shall not be awarded nor considered in determining high school class rank. All grades for high school courses taken in middle school will appear on the high school transcript. Students must pass the course for the full year in order to receive credit.

A student who fails the first semester of the high school credit course should be removed from the course unless a committee consisting of the counselor, teacher, and parent determine the student should remain in the course for the year. If a student fails one semester of a two semester course but passes the other semester of the course, the student shall receive credit for both semesters when the average of the two semesters of the course is at least 70. If a student fails one semester and passes the other and the yearly average is below 70, no credit will be awarded.

Middle School students completing high school courses at the high school campus shall receive credit that applies toward both state and subject area graduation requirements. Grade points for these courses shall be awarded and considered in determining class rank. Original credit is earned when a student takes a course for the first time and successfully meets the course requirements to earn a passing average for the year.

## **Credit by Examination for Acceleration**

The State Board of Education provides that school districts offer students the opportunity to pass certain courses through credit by examination (CBE). The high school credit by examination for acceleration program is for highly capable students who wish to earn 0.5 or 1.0 credit for required specific high school courses for which they have had **no prior instruction**. The examination requested must be for a **more Advanced course than those previously taken**. See the counselor for specific information about courses and requirements.

- **Performance Criteria for Acceleration:** The District's criteria for performance shall ensure that to receive credit in an academic course for which no prior instruction has been provided, the grade 9-12 student attains a grade of 80 percent or above on a criterion-referenced test covering the requirements outlined in the Texas Administrative Code and district course objectives.
- **Examinations:** The examinations to be administered shall be from Texas Tech University or the University of Texas Extension Division in all subjects where available.
- **Procedures:** In order to receive credit in a course, a student shall:
  - Obtain an application from the counselor.
  - Complete an application with parent approval, as applicable.
  - Receive approval from the campus principal or designee.
- **Fees for Examinations for Acceleration:** The District shall not charge for examinations for acceleration.

- **Credit by Examination for Verification**

The District has elected to permit eligible students the opportunity to earn credit in courses for which they have had **prior instruction** through credit by examination. See the counselor for specific information about courses and requirements. The high school credit by examination for verification program is for students who:

- Participated in home schooling and were not enrolled in any public school,
- Attended a non-accredited school, or
- Had a non-traditional academic background.
- **Performance Criteria for Verification:** The District's criteria for performance shall ensure that to receive credit in an academic course for which prior instruction has been provided, the grade 9-12 student attains a grade of 70 percent or above on a criterion-referenced test covering the requirements outlined in the Texas Administrative Code and district course objectives.
- **Examinations for Verification:** The examinations to be administered shall be from Texas Tech University or the University of Texas Extension Division in all subjects where available.
- **Procedures for Verification: In order to receive credit in a course, a student shall:**
  - Obtain an application from the counselor.
  - Complete an application with parent approval, as applicable.
  - Receive approval from the campus principal or designee.
- **Granting and Recording Credit for Verification:** Credit will be granted if the student scores 70 percent or more on the examination. The district shall record as the course grade on the academic achievement record (transcript) the score earned on the examination. The credit earned by examination will earn "Level" grade points and will be included in computing the student's grade point average. No entry will be made for scores of less than 70 percent on examinations. Grades verifying high school courses taken prior to grade 9 will be recorded as a **number** with no grade points assigned.

- Fees for Examinations for Verification: The District shall not charge for examinations for verification.

### **Credit by Examination for Retrieval (credit recovery)**

The District has elected to permit eligible students the opportunity to earn credit in courses for which they have had **prior instruction** through credit by examination. See the counselor for specific information about courses and requirements. The high school credit by examination for retrieval/credit recovery program is for students who:

- Failed a course,
- Did not receive credit due to excessive absences, or
- Did not complete the course requirements at the time they were enrolled due to extenuating circumstances.

***Students are not eligible for credit by examination for retrieval of credit if they are currently enrolled in the course for which they are seeking credit.***

- Performance Criteria for Retrieval of Credit: The District's criteria for performance shall ensure that to receive credit in an academic course for which prior instruction has been provided, the grade 9-12 student attains a grade of 70 percent or above on a criterion-referenced test covering the requirements outlined in the Texas Administrative Code and district course objectives.
- Examinations for Retrieval: The examinations to be administered shall be from Texas Tech University or the University of Texas Extension Division in all subjects where available.
- Procedures for Retrieval: In order to receive credit in a course, a student shall:
  - Obtain an application from the counselor.
  - Complete an application with parent approval, as applicable.
  - Receive approval from the campus principal or designee.
  - Submit payment
- Granting Credit and Recording Grades for Retrieval: Credit will be granted if the student scores 70 percent or more on the examination. The district shall record as the course grade on the academic achievement record (transcript) the score earned on the examination. The credit earned by examination will earn level grade points and will be included in computing the student's grade point average. No entry will be made for scores of less than 70 percent on examinations.
- Fees for Examinations for Retrieval: The student is responsible for fees for examinations for retrieval of credit. Other options for the student include summer school, correspondence courses, or retaking the course the following year.

**Note: The initial grade earned in a course always remains on the transcript and is included in GPA calculations along with the retrieval grade.**

## **Summer School Courses**

Summer school courses are offered for remediation and/or credit recovery. A few courses typically taken at the senior level may be offered for acceleration with approval. Those courses for which an End of Course Exam is required may not be taken in summer school for acceleration. A summer school bulletin, published each year by HISD, lists courses, fees, and schedules. Students should see their assigned counselor for additional information.

Students who fail to demonstrate mastery of the STAAR End of Course exams may attend remediation courses in summer school to prepare for the next administrations of these tests.

**Students wishing to enroll in summer enrichment programs or credit bearing courses outside of Humble ISD must consult with their assigned counselor prior to enrollment if they are expecting to receive state credit toward graduation for the program.**

## **Correspondence Courses**

Required credits for graduation may be earned through traditional or online correspondence courses for resident students. Courses must be taken from the University of Texas Division of Extension, the Extension Division of Texas Tech University or other TEA accredited institutions. Resident students must secure approval of the principal or his/her designee by demonstrating a need for the course, such as retrieving credit for a course previously failed, a scheduling conflict, or a course not offered by the District.

The following statements apply to seniors only:

- If the final grade for a first semester correspondence course is not reported to the counselor by the first day of school, the student will be enrolled in that course for the first semester.
- If the final grade for a second semester correspondence course is not reported to the counselor by the last day of the first semester, the student will be enrolled in that course for the second semester.
- When a student does produce the documentation of successful completion, he/she will be removed from the class. Further information is available from the counselor.
- Fees for Correspondence Courses: The student is responsible for fees associated with correspondence courses.

## Texas Virtual School Network

The Texas Virtual School Network (TxVSN) offers online courses for high school credit. A TxVSN course provides a quality online instructional opportunity for Humble ISD students. Courses are facilitated by online instructors with Texas certification in the course subject area and grade level. Each instructor has completed required TxVSN-approved professional development. The combination of subject area knowledge with training in the unique methods for delivering online instruction will create an interesting, challenging, and interactive learning experience for Humble ISD students.

Through regular review of the student's personal graduation plan the school counselor along with the student and parent may determine that TxVSN online courses provide useful instructional options that are a good fit for the student's goals. For more information, go to [www.txvsn.org](http://www.txvsn.org). Any student interested in participating in a TxVSN course should contact his/her counselor. Interested students and their parents or guardians must sign the *Humble ISD/ Texas Virtual School Network Student/Parent Agreement* in order to participate.

### Course Load

Grade 9: Must be enrolled in a full load of courses.

Grade 10: Must be enrolled in a full load of courses.

Grade 11: Students must be enrolled in six onsite courses.

Grade 12: Students must be enrolled in six onsite courses.

***Humble ISD course load requirements meet UIL participation requirements. If students plan to take courses beyond their full load, outside of Humble ISD, they must seek prior approval from their counselor.***

### Academic Classification

Students are classified by the number of academic state credits they have earned at the beginning of the school year. The following classification system is used for academic placement:

<u>Grade</u>	<u>Credits</u>
9 .....	0 - 5.5
10 .....	6 - 11.5
11 .....	12 - 17.5
12 .....	18 - Above

Academic classification typically occurs annually at the beginning of each school year with one exception. 12<sup>th</sup> graders who were reclassified as 11<sup>th</sup> graders in the fall, but who are able to meet graduation requirements for the current school year, will be reclassified as 12<sup>th</sup> graders at mid-term.

### **Eligibility for Extracurricular Activities**

UIL participants are eligible to participate in contests during the first six weeks of the school year provided the following standards have been met:

- Students beginning grade nine and below must have been promoted from the previous grade prior to the beginning of the current school year.
- Students beginning their second year of high school must have earned five credits which count toward state high school graduation requirements.
- Students beginning their third year of high school either must have earned a total of ten credits which count toward state high school graduation credits or have earned a total of five credits which count toward state high school graduation requirements during the 12 months preceding the first day of the current school year.
- Students beginning their fourth year of high school either must have earned a total of 15 credits which count toward state high school graduation credits or have earned a total of five credits which count toward state high school graduation requirements during the 12 months preceding the first day of the current school year.

**If a student receives a grade below 70 at the end of the 1<sup>st</sup> 6 weeks of school or at any grading period thereafter, they are ineligible to participate for three weeks. At the end of that three-week period, the student must be passing all courses to become eligible. See UIL eligibility calendar for effective dates.**

## **National Collegiate Athletic Association (NCAA) Eligibility Regulations**

In order to practice and play as a freshman at an NCAA Division I or Division II college/university, the student athlete must satisfy requirements of the NCAA. Student athletes must have eligibility for practice and competition in the freshman year certified by the NCAA Eligibility Center.

The NCAA Eligibility Center has been established for a review of core courses and high school transcripts for all prospective Division I and Division II student athletes who must complete a "Student Release Form" and submit it with payment of a \$90.00 fee to the Eligibility Center. This fee may be waived only if the student athlete has received a fee waiver for the ACT or SAT. Student athletes should contact their school counselor about this fee waiver. The official high school transcript and ACT or SAT scores must be submitted to the Eligibility Center which will issue a preliminary certification report that will be available to the student athlete and the colleges that they have selected to receive this information. After graduation the Eligibility Center will review the final transcript and make a final certification decision.

### **IMPORTANT POINTS**

This legislation establishes a **minimum** standard for athletic eligibility. It is not a guide to a student's admission to the institution. Under NCAA legislation, a student's admission is governed by the regularly published entrance requirements of each college.

Student-athletes and parents should obtain a copy of the current NCAA Guide for the College-Bound Student-Athlete for additional and more detailed information about NCAA eligibility requirements.

Contact the NCAA for information about procedures for determining initial-eligibility of students with learning disabilities. An NCAA publication, Putting Dreams into Action, addresses these issues.

Contact the NCAA at the website: [ncaaeligibilitycenter.org](http://ncaaeligibilitycenter.org) to view requirements for Student-Athlete Eligibility.

## **Early High School Graduation**

Students who wish to graduate early (3 or 3.5 years) should file an early graduation plan, with their counselor **no later than the end of the tenth grade**. The student and parent should make an appointment with the counselor to develop a graduation plan as soon as this decision is made. Early graduates must complete the graduation requirements that were in effect the year they entered 9<sup>th</sup> grade.

## **Transfer Students**

Students who have been home-schooled and are enrolling in Humble ISD will be required to confirm curricula mastery with Credit by Examination for Verification. Credit will be issued upon mastery (70%) of the exam. The district will be responsible for any fees associated with Credit by Examination for Verification. Further information is available from the counseling office.

Grades from other schools will be converted to the Humble Independent School District grading scale. The Texas state scale will be used when letter grades are given:

A = 90-100	B = 80-89	C = 75-79	D = 70-74	F = 69 and below
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Numerical grades and award of credit will be accepted from other districts as they are printed on their official transcript. For numerical grades from districts where the passing standard is less than 70, a designation of "P" will be used to award credit and grade points will not be assigned. Numerical grades which are not passing from the sending school will not receive credit in Humble ISD for those courses.

If transfer grades from other schools are reported in letter grades or percentages, Humble ISD will honor the conversion scale printed on the official transcript or provided in writing from an official of the sending school.

If transfer grades from other schools are reported in letter grades or percentages with no conversion scale provided, grades will be converted to the state and Humble ISD grade conversion scale as follows:

A+ = 99	B+ = 88	C+ = 79	D+ = 74	F = 69 and below
A = 95	B = 85	C = 77	D = 73	
A- = 92	B- = 81	C- = 75	D- = 71	

If a student’s transcript reflects a grading scale different from the circumstances stated above, every effort will be made to convert the grades as closely as possible to the Humble ISD grading scale.

**Grade Point Average and Class Rank**

Grade points are assigned based on the level of the course. Class rank is derived from the assigned grade points.

Numerical grades are awarded in all courses. Grade points are assigned to these numerical grades based on the level of the course: Advanced or On-Level. Thus, the same numerical grade earned would vary in grade points, depending on the level of the courses and affect class rank.

GRADE	Advanced	ON-LEVEL
100	6.0	5.0
99	5.9	4.9
98	5.8	4.8
97	5.7	4.7
96	5.6	4.6
95	5.5	4.5
94	5.4	4.4
93	5.3	4.3
92	5.2	4.2
91	5.1	4.1
90	5.0	4.0
89	4.9	3.9
88	4.8	3.8
87	4.7	3.7
86	4.6	3.6
85	4.5	3.5
84	4.4	3.4
83	4.3	3.3
82	4.2	3.2
81	4.1	3.1
80	4.0	3.0
79	3.9	2.9
78	3.8	2.8
77	3.7	2.7
76	3.6	2.6
75	3.5	2.5
74	3.4	2.4
73	3.3	2.3
72	3.2	2.2
71	3.1	2.1
70	3.0	2.0
<70	0	0



### **System for Determining Senior Class Rank**

Senior class rank will be determined by adding all grade points earned from the first day of the school year of the ninth grade through the last day of the third marking period of the senior year. High school courses taken in summer school after completion of eighth grade shall be included in determining senior class rank. All courses except school service volunteer/aide positions will be included in the calculation.

The total number of grade points will be divided by the total number of all semester grades earned including all failing marks, correspondence courses, credit by exam testing, online courses, and summer school. In computing grade points, only traditional marks will be used. Those such as pass/fail will be excluded. Students who are denied credit because of excessive absences in a class will have both the course and grade included in the computation of the grade point average.

The third marking period grades of the senior year shall be counted as the final semester grade. All grades from other schools will be converted to Humble Independent School District's grade equivalent. Advanced courses in other districts which are not offered in Humble Independent School District will receive Level grade points when determining class rank.

### **System for Determining Top Ten Graduating Students**

Determining the valedictorian and salutatorian will be done by averaging grades from all courses except service volunteer. The average will be taken from the freshman year until the end of the third marking period of the senior year. High school courses taken in summer school after completion of eighth grade shall be included in determining senior class rank. The total number of grade points will be divided by the total number of all semester grades earned including all failing marks, correspondence courses, credits by exam, courses in which credit has been denied because of excessive absences, and summer school. In computing grade points, only traditional marks will be used. Those such as pass/fail will be excluded.

Due to enrollment, academics, disciplinary, and course requirements, the highest ranking students may not necessarily be valedictorian or salutatorian. In addition to class rank, a student must meet the following requirements to be eligible for valedictorian or salutatorian honors:

- Enrollment in an Humble Independent School District high school prior to the 20<sup>th</sup> day of the year preceding their senior year and continuous attendance in that high school through graduation. Special provisions may be made by the superintendent for students who temporarily sever enrollment due to illness.
  - Enrollment in the Foundation High School Program with an Endorsement.
  - Maintenance of an 87 overall average for the fourth grading period with no failing average in any subject. (This average will be determined 15 school days prior to graduation.)
  - No major disciplinary offense during the senior year. Offenses which might result in disqualification shall be referred to a committee comprised of the grade level principal, the counselor, and a teacher. The committee shall consider the evidence and make a recommendation to the building principal.
- Qualifications for top ten ranked students:
    - All required courses for graduation done by correspondence must be completed by the end of the third marking period of the student's senior year.
    - The top ten ranked students will be calculated within fifteen days of the last day of the third marking period.

# POST SECONDARY EDUCATIONAL OPPORTUNITIES

## **Top 10 Percent Automatic College Admissions**

In accordance with Texas Education Code (TEC), §51.803, a student is eligible for automatic admission to a Texas public college or university as an undergraduate student if the student earned a grade point average in the top 10 percent of the student's high school graduating class or in the percentage of qualified applicants that are anticipated to be offered admission to the University of Texas at Austin\*, and the applicant

- (1) Successfully completed the requirements for the Recommended High School Program (RHSP) or the Distinguished Achievement Program (DAP);
- (2) Earned the distinguished level of achievement under the Foundation High School Program; or
- (3) Satisfied ACT's College Readiness Benchmarks on the ACT assessment or earned on the SAT assessment a score of at least 1,500 out of 2,400 or the equivalent.



High school rank for students seeking automatic admission to a general academic teaching institution is determined and reported as follows.

- (1) Class rank must be based on the student's rank at the end of the 11th grade, middle of the 12th grade, or at high school graduation, whichever is most recent at the application deadline.
- (2) The top 10 percent of a high school class cannot contain more than 10 percent of the total class size.
- (3) The student's rank must be reported by the student's high school or school district as a specific number out of a specific total class size.
- (4) Class rank shall be determined by the school or school district from which the student graduated or is expected to graduate.

A student is considered to have satisfied the course requirements of the RHSP, DAP, or the distinguished level of achievement under the Foundation High School Program if the student completed the portion of those programs that was available to the student but which the student was unable to complete because the courses were unavailable as a result of circumstances not within the student's control.

## **To qualify for automatic admission an applicant must**

- (1) Submit an application before the deadline established by the Texas college or university to which the student seeks admission; and
- (2) Provide a high school transcript or diploma that indicates whether the student has satisfied or is on schedule to satisfy the requirements of the RHSP, DAP, or the distinguished level of achievement under the Foundation High School Program or the portion of the requirements of those programs that was available to the student.
- (3) Texas colleges and universities are required to admit an applicant for admission as an undergraduate student if the applicant is the child of a public servant who was killed or sustained a fatal injury in the line of duty and meets the minimum requirements, if any, established by the governing board of the college or university for high school or prior college- level grade point average and performance on standardized tests.

*\* The University of Texas at Austin (UT) is not required to automatically admit applicants in excess of 75% of its enrollment capacity for first-time resident undergraduate students. Should the number of applicants who qualify for automatic admission exceed 75% of enrollment capacity, UT must provide notice of the percentage of qualified applicants that are anticipated to be offered admission. Students who are in the top 10 percent of their graduating class are eligible for automatic admission to any public university in Texas, except for the University of Texas. Admission to a university does not guarantee acceptance into a particular college of study, department or major.*

## State Financial Aid Programs with Curriculum Requirements

Under TEC, Title 3, there are several state financial aid programs available for Texas public high school students. The following state financial aid programs include certain curriculum requirements to be considered when planning a student's high school career to ensure eligibility for financial aid under one of these programs. Please note that this is not a complete list of requirements and additional eligibility requirements apply. A full list of requirements is available through the Texas Higher Education Coordinating Board's financial aid webpage at

<http://www.collegeforalltexas.com/apps/financialaid/tofa2.cfm?ID=458>.

**Individuals interested in the following financial aid opportunities are strongly encouraged to check the status of each grant program for the anticipated year(s) of enrollment in an institution of higher education at**

<http://www.collegeforalltexas.com/apps/financialaid/tofa2.cfm?ID=458>.

## Top Ten Percent Scholarship

To receive an initial award through the Top 10 Percent Scholarship Program, a student must have graduated while ranked in the top 10 percent of his or her graduating class and completed the RHSP or DAP curriculum or earned the distinguished level of achievement on the Foundation High School Program (or the equivalent) at an accredited public high school in Texas, or the equivalent at an accredited private high school in Texas.

## TEXAS Grant

### Basic Initial Year (IY) Student Eligibility Curriculum Requirements

A student must complete the Foundation High School Program, RHSP, or DAP (or the equivalent).

### Priority Model Initial Year (IY) Student Curriculum Eligibility Requirements

In addition to the basic initial year (IY) student eligibility requirements, to receive priority consideration for an IY award through the TEXAS Grant Program, a student must meet at least one requirement in at least two of the four following areas:

AREA	REQUIREMENT(S)
Advanced Academic Program	Earn 12 hours of college credit (dual credit or AP courses), complete the Distinguished Achievement Program (DAP), or complete the International Baccalaureate (IB) Program
TSI Readiness	Meet the Texas Success Initiatives (TSI) assessment thresholds or qualify for an exemption
Class Standing	Graduate in the top one-third of the HS graduating class or have a B average
Advanced Math	Complete at least one math course beyond Algebra II as determined by the Texas Education Agency (TEA) or complete at least one Advanced career and technical course, as determined by TEA

A full list of TEXAS Grant eligibility requirements is provided at:

<http://www.collegeforalltexas.com/apps/financialaid/tofa2.cfm?ID=458>.

## **Student Education Benefits Program**

This program allows public colleges to reduce tuition and/or fees for eligible students. The state has programs for some students who meet one of the following:

- In foster care before age 18
- Adopted prior to age 14
- Valedictorians
- Blind
- Deaf

The state also has programs for children of:

- Disabled or deceased peace officers
- Deceased public servants
- Deceased veterans POWs or MIAs
- Parents receiving TANF for the student when he/she was a high school senior

Students should contact a college financial aid officer at the college they plan to attend for more information.

## **Other Texas Financial Aid Programs**

Other scholarships, grants, and financial aid, including tuition exemption, loans, and work study are available. Further information is available from the following sources.

- **Texas Financial Aid Information Center**  
Toll free 877-782-7322  
1-888-311-8881 to get financial aid questions answered
- **Texas Higher Education Coordinating Board**  
[www.thecb.state.tx.us](http://www.thecb.state.tx.us)
- **Texas Guaranteed Student Loan Corporation**  
[www.AdvancedenturesinEducation.org](http://www.AdvancedenturesinEducation.org)
- **Tract sheet and links to other sources**  
[www.collegefortexans.com](http://www.collegefortexans.com)
- **Free Application for Federal Student Aid and other financial aid resources**  
[www.fafsa.ed.gov](http://www.fafsa.ed.gov)

# **COURSE DESCRIPTIONS**

## ENGLISH LANGUAGE ARTS

### **English I (1111) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03220100

Prerequisite(s): None

Notes: Students will be required to take the English I STAAR EOC exam. NCAA approved core course.

English I supports the interconnected nature of listening, speaking, reading, writing, and thinking. Students consistently participate in activities that support development of the English I TEKS, while enabling students to develop the competencies present in the Humble ISD Portrait of a Graduate. The course provides intensive and continued focus on the development of critical reading and writing skills.

### **English I for Speakers of Other Languages (1101) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03200600

Prerequisite(s): Identified as an English Learner (EL) by the Language Proficiency Assessment Committee (LPAC)

Notes: Students will be required to take the English I STAAR EOC exam.

The course, whose TEKS mirror those of English Language Arts, is designed to take into consideration the student's linguistic, cultural and affective needs. Placement considerations are determined by the LPAC. After the student earns credit for English I for Speakers of Other Languages, English II, English III and IV (or the equivalent) are the required courses. English I for Speakers of Other Languages may be substituted for English I if the student meets the eligibility criteria as described in the Texas State Graduation Requirements and is at the Beginning or Intermediate level of English proficiency. Reinforcement for EL students may be found in a second supportive course, such as English as a Second Language Academic Support. (See Index/Local Electives.) Some universities have specific course requirements; therefore, the student should check with the college of his/her choice.

### **English I Advanced (1113) 1 credit (state)**

GPA Level 1

Grade Level(s): 9

Service ID: 03220100

Prerequisite(s): None

Notes: Students will be required to take the English I STAAR EOC exam. NCAA approved core course.

English I Advanced supports the interconnected nature of listening, speaking, reading, writing, and thinking. Students consistently participate in activities that support development of the English I TEKS, while enabling students to develop the competencies present in the Humble ISD Portrait of a Graduate. The course provides intensive and continued focus on the development of critical reading and writing skills, fostering the development of reading and writing in any context.

### **English I Gifted & Talented (1114) 1 credit (state)**

GPA Level 1

Grade Level(s): 9

Service ID: 03220100

Prerequisite(s): District recommendations for Gifted & Talented Placement

Notes: Students will be required to take the English I STAAR EOC exam. NCAA approved core course.

English I GT supports the interconnected nature of listening, speaking, reading, writing, and thinking. Students consistently participate in activities that support development of the English I TEKS, while enabling students to develop the competencies present in the Humble ISD Portrait of a Graduate. The course provides intensive and continued focus on the development of critical reading and writing skills, fostering the development of reading, and writing in any context. An in-depth study of writing and research techniques and word and language structures serve as foundations to the course. English GT is a differentiated and accelerated program that exceeds state requirements.

**English II (1121) 1 credit (state)**

GPA Level 2

Grade Level(s): 10

Service ID: 03220200

Prerequisite(s): English I

Notes: Students will be required to take the English II STAAR EOC exam. NCAA approved core course.

English II supports the interconnected nature of listening, speaking, reading, writing, and thinking. Students consistently participate in activities that support development of the English II TEKS, while enabling students to develop the competencies present in the Humble ISD Portrait of a Graduate. The course provides intensive and continued focus on the development of critical reading and writing skills, fostering the development of specific modes of writing and the analysis of multi-genre texts from around the world to emphasize critical thinking, analysis, and connections between culture and language.

**English II for Speakers of Other Languages (1102) 1 credit (state)**

GPA Level 2

Grade Level: 9-12

Service ID: 03200700

Prerequisite: Identified as an English (EL) by the Language Proficiency Assessment Committee (LPAC)

Notes: Students will be required to take the English II STAAR EOC exam.

The course, whose TEKS mirror those of English Language Arts, is designed to take into consideration the student's linguistic, cultural and affective needs. Placement considerations are determined by the LPAC. After the student earns credit for English II for Speakers of Other Languages, English III and IV (or the equivalent) are the required courses.

English II for Speakers of Other Languages may be substituted for English II if the student meets the eligibility criteria as described in the Texas State Graduation Requirements and is at the Beginning or Intermediate level of English proficiency. Reinforcement for EL students may be found in a second supportive course, such as English as a Second Language Academic Support. (See Index/Local Electives.) Some universities have specific course requirements; therefore, the student should check with the college of his/her choice.

**English II Advanced (1123) 1 credit (state)**

GPA Level 1

Grade Level: 10

Service ID: 03220200

Prerequisite: English I

Notes: Students will be required to take the English II STAAR EOC exam. NCAA approved core course.

English II Advanced supports the interconnected nature of listening, speaking, reading, writing, and thinking. Students consistently participate in activities that support development of the English II TEKS, while enabling students to develop the competencies present in the Humble ISD Portrait of a Graduate. The course provides intensive and continued focus on the development of critical reading and writing skills, fostering the development of specific modes of writing and the analysis of multi-genre texts from around the world to emphasize critical thinking, analysis, and connections between culture and language. The course provides extensive instruction in methods of literary analysis through reading and writing about selected works of fiction, nonfiction, drama, and poetry.

**English II Gifted & Talented (1124) 1 credit (state)**

GPA Level 1

Grade Level(s): 10

Service ID: 03220200

Prerequisite(s): District recommendations for Gifted &amp; Talented Placement

Notes: Students will be required to take the English II STAAR EOC exam. NCAA approved core course.

English II GT supports the interconnected nature of listening, speaking, reading, writing, and thinking. Students consistently participate in activities that support development of the English II TEKS, while enabling students to develop the competencies present in the Humble ISD Portrait of a Graduate. The course provides intensive and continued focus on the development of critical reading and writing skills, fostering the development of specific modes of writing and the analysis of multi-genre texts from around the world to emphasize critical thinking, analysis, and connections between culture and language. The course focuses on developing gifted students' analytical skills and reasoning abilities through a humanities-based thematic curriculum centered on a survey of several classical and contemporary works. Student research as well as group research projects provide in-depth, differentiated learning experiences. Standard usage, vocabulary expansion, and communication skills are also emphasized.

**English III (1131) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 03220300

Prerequisite(s): English II

Notes: \*\*NCAA approved core course.

English III supports the interconnected nature of listening, speaking, reading, writing, and thinking. Students consistently participate in activities that support development of the English III TEKS, while enabling students to develop the competencies present in the Humble ISD Portrait of a Graduate. The course provides intensive and continued focus on the development of critical reading and writing skills, fostering further development of purposes and modes of writing and the analysis of multi-genre texts to emphasize critical thinking and analysis.

**AP English Language and Composition III (1133) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: A3220100

Prerequisite(s): None

Notes: Prepares students for the College Board Advanced Placement English Language and Composition exam.  
NCAA approved core course.

AP English Language and Composition students are expected to read complex texts with understanding and to write prose of sufficient richness and complexity. Both their writing and their reading build an awareness of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. Students increase their awareness of how stylistic effects are achieved by writers' rhetorical and linguistic choices. Emphasized writing modes include the analytical, rhetorical, and synthesis essays.

**AP English Language and Composition Gifted & Talented III (1134) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: A3220100

Prerequisite(s): None

Notes: Prepares students for the College Board Advanced Placement English Language and Composition exam.  
NCAA approved core course.

AP English Language and Composition GT is designed for the student identified as academically gifted in the language arts based on state guidelines and district criteria. Using the advanced placement curriculum, the course is differentiated for gifted students by modifying the depth, complexity, and/or pacing. This course provides the gifted student with a humanities overview of the American experience. GT students may opt to sit for the AP exam; however, the focus of this class is not AP exam preparation.

**IB English III (1133I) 1 credit (state)**

GPA Level 1

Grade Level(s): 11

Service ID: I3220800

Prerequisite(s): Acceptance into the IB Diploma Program

Notes: NCAA approved core course.

IB English III is the first year of a two-year English literature sequence emphasizing the study of written language and literary analysis. The course promotes an appreciation of literature and an understanding of one's own culture and that of other societies. Students read several texts grouped by theme and genre, representing both original English language selections as well as world literature selections read in translation. Oral and written examinations are used to assess students' individual language skills, their ability to critically analyze and comment upon familiar and unfamiliar texts, and their ability to express a personal and independent response to literature.

**College Transitions Dual (1200D) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: N1290050

Prerequisite(s): Dual Credit Application

Notes: Dual Credit is available from Lone Star for this course.

College Transition is designed to develop and enhance students' academic study strategies. Included in this course are a variety of effective, research-proven study strategies and skills which will help students achieve their full potential in all their academic classes. Units of study included in this course are goal setting, organization, and time management, learning styles, communication skills, note taking skills, information-gathering and research skills, memory skills, and test-taking skills. Students are expected to integrate and apply these theories and learning skills.

**College Transitions (1200) 1 credit (state)**

GPA Level 1

Grade Level(s): 9-12

Service ID: N1290050

Prerequisite(s):

Notes:

College Transitions is designed as a college readiness/transition course to prepare students for college success. This course presents a variety of effective, research-proven study strategies and skills which will help students achieve their full potential in all academic classes. Areas of focus include self-awareness, identifying and accessing college resources and services, managing time and effort, reading, note taking, writing, test taking and practical thinking. In addition to this, College Transitions is intended to develop and enhance students' non-cognitive skills. Additional instructional topics relate to factors that impact learning and the psychology of learning, cognition, and motivation. This course is ideal for students entering college courses while in high school.

**English IV (1141) 1 credit (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 03220400

Prerequisite(s): English III

Notes: NCAA approved core course.

English IV supports the interconnected nature of listening, speaking, reading, writing, and thinking. Students consistently participate in activities that support development of the English IV TEKS, while enabling students to develop the competencies present in the Humble ISD Portrait of a Graduate. The course provides intensive and continued focus on the development of critical reading and writing skills. Students write in a variety of forms including business, personal, literary, and persuasive texts. Students read extensively in multiple genres from British literature and other world literature.

**English IV Honors Dual Credit (1141D) (ENGL 1301/1302 Lone Star College) 1 credit (state)** **GPA Level 1**

Grade Level(s): 12

Service ID: 03220400

Prerequisite(s): Dual Credit Application

Notes: NCAA approved core course.

English IV Dual Credit provides intensive instruction in strategies and techniques for developing research-based expository and persuasive texts (1301) and knowledge of individual and collaborative research processes (1302). Emphasis is placed on writing in a style that clearly communicates meaning, builds credibility, and inspires belief or action. Students read, reflect, and respond critically to a variety of texts and complete written compositions on a regular basis. Students must receive a grade of B or better and pass the Lone Star College Grammar Proficiency Exam with a 50 or better.

**AP English Language and Composition IV (1143) 1 credit (state)** **GPA Level 1**

Grade Level(s): 11-12

Service ID: A3220200

Prerequisite(s): None

Notes: Prepares students for the College Board Advanced Placement English Language and Composition exam.

NCAA approved core course.

AP English Literature and Composition includes an intensive study of representative literature and works from various genres and periods, concentrating on works of recognized literary merit, offering students opportunities to understand a work's complexity, to absorb its richness of meaning, and to analyze how that meaning is embodied in literary form. The academic rigor of this course and the increased exposure to complex readings help prepare students for the AP English Literature and Composition exam.

**AP English Language and Composition IV Gifted & Talented IV (1144) 1 credit (state)** **GPA Level 1**

Grade Level(s): 11-12

Service ID: A3220200

Prerequisite(s): District recommendations for Gifted & Talented

Notes: Prepares students for the College Board Advanced Placement English Language and Composition exam.

NCAA approved core course.

AP English Literature and Composition is designed for the student identified as academically gifted in the language arts based on state guidelines and district criteria. Using the advanced placement curriculum, the course is differentiated for gifted students by modifying the depth, complexity, and/or pacing. GT students may opt to sit for the AP exam; however, the focus of this class is not AP exam preparation. Dual Credit from Lone Star College is available. If a student is taking this course for 1301 credit, he/she will need to complete an additional research paper, receive a grade of B or better and pass the Lone Star College Grammar Proficiency Exam with a 50 or better. If a student is taking this course for 1302, there will be no additional requirements.

**IB English IV (1143I) 1 credit (state)** **GPA Level 1**

Grade Level(s): 12

Service ID: I3220800

Prerequisite(s): Acceptance into the IB Diploma Program; completion of IB English III

Notes: NCAA approved core course.

IB English IV is the second year of a two-year English literature sequence emphasizing the study of written language and literary analysis. The course promotes an appreciation of literature and expands on a student's understanding of how literature is impacted by global perspectives and cultural differences. Students read several texts grouped by theme and genre, representing both original English language selections as well as world literature selections read in translation. Oral and written examinations are used to assess students' individual language skills, their ability to critically analyze and comment upon familiar and unfamiliar texts, and their ability to express a personal and independent response to literature. The literature studies in this course and the assessments will satisfy IB syllabus requirements for the Group 1 Language A1 Higher-Level program.

**IB Theory of Knowledge (1164I) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: N1290322

Prerequisite(s): Acceptance into the IB Diploma Program; required for IB Diploma Program

Notes:

Theory of Knowledge (TOK) is an IB course central to the educational philosophy of the International Baccalaureate Program. TOK explores habits of thought, raising questions about the validity of knowledge, and, in doing so, establishing a cross-curricular understanding of how a learner learns and, ultimately, knows. Students will pursue a wide range of readings to be examined in a Socratic Seminar setting, presenting students with the challenge to reflect critically on the perspectives and biases that contribute to the development of the knowledge base found within individuals, cultures, and our global society.

**Business English IV (CT405) 1 credit CTE (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 13011600

Prerequisite(s): English III, Recommended, Touch System Data Entry

Notes:

Students recognize, evaluate, and prepare for a rapidly evolving business environment that requires flexibility and adaptability. Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students are expected to plan, draft, and complete written compositions on a regular basis. Students edit their papers for clarity, engaging language, and the correct use of the conventions and mechanics of written English and produce final, error-free drafts for business reproduction. This course may satisfy the English credit for graduation.

**Strategic Writing (10500) ½ -1 credit (state)**

GPA Level 2

Grade Level(s): 10 -11

Service ID: 3221300

Prerequisite(s):

Notes: This course does not meet English graduation requirements for the Foundation High School Program, the Recommended High School Program, or the Distinguished Achievement Program.

This study of writing allows underprepared student writers to earn one-half to one credit while improving their writing skills. 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 and analysis of informational text, and the effective use of vocabulary.

**Practical Writing Skills (1147) ½ credit (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 03221300

Prerequisite(s):

Notes: This course does not meet English graduation requirements for the Foundation High School Program, the Recommended High School Program, or the Distinguished Achievement Program.

This one-semester course prepares students for junior college, technical school, or the business world by including an emphasis on writing a variety of modes and purposes in letters, forms, and compositions, including a research paper.

**Literary Genres (1148) ½ credit (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 03221500

Prerequisite(s): English III

Notes: This course does not meet English graduation requirements for the Foundation High School Program, the Recommended High School Program, or the Distinguished Achievement Program.

This one-semester course prepares students for junior college, technical school, or the business world by developing skills in surveying the short story, poetry, drama, and the novel, using primarily British literature.

**College Prep ELA (114000) ½ credit (state)**

GPA Level 2

Grade Level(s): 12

Service ID: CP110100

Prerequisite(s):

Notes: NCAA approved core course.

This is a combined lecture/lab, performance-based intensive bridge class designed to develop students' critical reading and academic writing skills. The focus of the curriculum will be on applying critical reading skills for organizing, analyzing, and retaining material and developing written work appropriate to the audience, purpose, situation, and length of the assignment. The intervention outcomes integrate preparation in basic academic reading skills with basic skills in writing a variety of academic essays. This bridge class is designed to prepare students for college level reading and writing courses including ENGL 1301. The intervention fulfills TSI requirements for reading and writing.

**Creative Writing (1145) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03221200

Prerequisite(s):

Notes: Can count as 4<sup>th</sup> English credit. NCAA approved core course.

Creative Writing is a course designed for students who enjoy writing within all genres and are interested in producing original pieces. This writing-focused course explores the strategies necessary for becoming an established author including stylistic techniques, finding your voice, purpose, and point of view. This course also emphasizes various organizational models, the use of literary devices, and figurative language. Students will receive first-hand knowledge of developing a personal writing style and the procedures necessary to publish an original piece within different literature platforms.

**Rhetoric Dual (OnRamps) (1150DOR) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID:03220300

Prerequisite(s): English I and English II

Notes: Credit for RHE 306 (ENGL 1301) and RHE 309K (ENGL 1302) may be awarded by UT Austin for students who meet grading criteria. Additional fees apply with all OnRamps courses and district scholarships are available.

This two-semester, six-credit writing-intensive sequence features a fall RHE 306 "Research & Writing" course in argumentation that situates rhetoric as an art of civic discourse, followed by the spring semester RHE 309K "Rhetoric of American Identity" featuring a series of case studies in race, gender, and ethnicity. Over the two courses, students research and analyze the various positions held in any public debate and learn to advocate their own position effectively through a process of drafts and revisions. In the fall, students explore the ethics of argumentation and what it means to fairly represent someone with whom they disagree. By the spring, students are ready to analyze and compose arguments about American identity and identity formation, both personal and cultural. The goal is to foster students' abilities to analyze arguments presented by others and to write sound and effective arguments of their own. With these abilities, students are more equipped to contribute meaningfully to their academic, professional, personal, and civic lives. Students enrolled in OnRamps courses have an opportunity to earn a UT transcribed course grade and credit as long as they meet certain grade criteria.

## READING

A maximum of three credits of reading (selected from Reading I, II, or III) may be offered by districts for state graduation elective credit for identified students under the following conditions: (1) Recommendation by teacher or counselor; (2) Scores on assessment instruments and/or achievement tests. ***See your counselor for details.***

**Reading I, II, III (1181, 1182, 1183) 1-3 credits (state)**

**GPA Level 2**

Grade Level(s): 9-12

Service ID: 03270700,03270800,03270900

Prerequisite(s):

Notes: Reading may be taken for one to three state elective credits.

Reading I, II, and III offers students reading instruction to successfully navigate academic demands as well as attain life-long literacy skills. Specific instruction in word recognition, vocabulary, comprehension strategies, and fluency provides students an opportunity to read with competence, confidence, and understanding. Students learn how traditional and electronic texts are organized and how authors choose language for effect. All of these strategies are applied in instructional-level and independent-level texts that cross the content areas.

**Reading I, II, and III – Dyslexia (1184, 1185, 1186) 1 credit (state)**

**GPA Level 2**

Grade Level(s): 9-12

Service ID: 03270700,03270800,03270900

Prerequisite(s): Must be identified as dyslexic and placed by a Core Team

Notes:

Humble ISD provides a Dyslexia Intervention Program for students identified as dyslexic. It is a multisensory curriculum approach that teaches phonics and the structure of the English language. The program teaches reading, writing, spelling, and handwriting by engaging the visual, auditory, and kinesthetic modalities simultaneously.

**College Readiness and Studies Skills (1199) 1/2 credit (state)**

**GPA Level 2**

Grade Level(s): 9-10

Service ID: 03270100

Prerequisite(s):

Notes:

Students learn techniques for learning from texts including studying word meanings, producing effective summaries, identifying, and relating key ideas, drawing and supporting inferences, and reviewing study strategies. Students accomplish many of the course objectives through wide reading as well as use of cross-curricular context texts in preparation for post-secondary schooling.

## JOURNALISM

### Journalism (1199) 1 credit (state)

GPA Level 2

Grade Level(s): 9-12

Service ID: 03230100

Prerequisite(s):

Notes:

Journalism focuses on the fundamentals of journalistic writing and publication utilizing the latest technology in desktop publishing; the printing process; advertising and publication financing.

### Journalism: Yearbook Production I (1153) 1 credit (state)

GPA Level 2

Grade Level(s): 10-12

Service ID: 03230110

Prerequisite(s): Journalism I

Notes:

Advanced Journalism: Yearbook I is designed for students who are interested in studying the production of the school yearbook.

### Journalism: Yearbook Production II (1154) 1 credit (state)

GPA Level 2

Grade Level(s): 11-12

Service ID: 03230120

Prerequisite(s): Advanced Journalism: Yearbook Production I

Notes:

Advanced Journalism: Yearbook II expands and refines the skills presented in Advanced Journalism: Yearbook I. This course is designed to provide opportunities for increased involvement and responsibility in the process and production of the school yearbook.

### Journalism: Yearbook Production III (1155) 1 credit (state)

GPA Level 2

Grade Level(s): 12

Service ID: 03230130

Prerequisite(s): Advanced Journalism: Yearbook Production II

Notes:

Advanced Journalism: Yearbook III is designed for the highly-motivated student who is interested in assuming increased responsibility and providing leadership in the overall process of yearbook publication.

### Journalism: Newspaper Production I (1156) 1 credit (state)

GPA Level 2

Grade Level(s): 10-12

Service ID: 03230140

Prerequisite(s): Journalism I

Notes:

Advanced Journalism: Newspaper Production I is designed for students who are interested in the elements and processes used in producing a school newspaper.

### Journalism: Newspaper Production II (1157) 1 credit (state)

GPA Level 2

Grade Level(s): 11-12

Service ID: 03230150

Prerequisite(s): Advanced Journalism: Newspaper Production I

Notes:

Advanced Journalism: Newspaper II further expands and refines the course objectives outlined in Advanced Journalism: Newspaper I. This course is designed to promote increased involvement and responsibility in the process and production of a school newspaper.

**Journalism: Newspaper Production III (1158) 1 credit (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 03230160

Prerequisite(s): Advanced Journalism: Newspaper Production II

Notes:

Advanced Journalism: Newspaper III is designed for the highly motivated student who is interested in assuming increased responsibility and providing leadership in the overall process of newspaper production.

**Photojournalism (1159) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03230800

Prerequisite(s): Advanced Journalism: Newspaper Production II

Notes:

Photojournalism provides instruction in handling a digital camera. Emphasis is placed on the journalistic aspects of making photogenerated stories out of events and the impact on viewers. (Some campuses provide instruction in basic black-and-white darkroom procedures for students who own a 35 mm camera.) In addition to the camera, students must provide additional supplies not furnished by the school. The cost of these supplies is approximately \$50.00. (See Index/Fees.)

# MATHEMATICS

## **Algebra I (2202) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03100500

Prerequisite(s): Mathematics grade 8 or its equivalent.

Notes: Students will be required to take the Algebra I STAAR EOC exam. NCAA approved core course.

Algebra I is designed to provide a foundation for higher level mathematics courses. It builds on the knowledge and skills for mathematics in Grades 6-8, which provide a foundation in linear relationships, number and operations, and proportionality. Algebra I starts with the study of linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. It then connects functions and their associated solutions in both mathematical and real-world situations. Technology is used to collect and explore data and analyze statistical relationships. Students will also study polynomials of degree one and two, radical expressions, sequences, laws of exponents, and generate and solve linear systems with two equations and two variables and will create new functions through transformations.

## **Algebra I Advanced (221102) 1 credit (state)**

GPA Level 1

Grade Level(s): 9-12

Service ID: 03100500

Prerequisite(s): Mathematics grade 8 or Mathematics grade 8 Advanced.

Notes: Students will be required to take the Algebra I STAAR EOC exam. NCAA approved core course.

Algebra 1 Advanced is a course designed to provide a rigorous and in-depth study of algebra, emphasizing deductive reasoning skills as a foundation for more advanced mathematics courses. An emphasis on real-world applications of concepts is found throughout the course. Algebra I Advanced is designed to provide a foundation for higher level mathematics courses. It builds on the knowledge and skills for mathematics in Grades 6-8, which provide a foundation in linear relationships, number and operations, and proportionality. Algebra I starts with the study of linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. It then connects functions and their associated solutions in both mathematical and real-world situations. Technology is used to collect and explore data and analyze statistical relationships. Students will also study polynomials of degree one and two, radical expressions, sequences, laws of exponents, and generate and solve linear systems with two equations and two variables and will create new functions through transformations.

## **Strategic Mathematics (220500) ½ to 1 credit (state)**

GPA Level 2

Grade Level(s): 10

Service ID: N1110030

Prerequisite(s):

Notes: This course is elective credit only and will not satisfy high school mathematics graduation requirements.

This course is intended to create strategic mathematical learners from underprepared mathematics students. The basic understanding will stimulate students to think about their approach to mathematical learning. These basic understandings will include identifying errors in the teaching and learning process, input errors, physiological concerns and key cognitive skills. Use of personal data and statistical analysis will establish relevance and aid in creation of personalized learning goals.

**Geometry (2212) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03100700

Prerequisite(s): Algebra I.

Notes: NCAA approved core course.

In Geometry, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to strengthen their mathematical reasoning skills in geometric contexts. Students will begin to focus on more precise terminology, symbolic representations, and the development of proofs (paragraph, flow-chart, two column). Students will explore concepts covering coordinate and transformational geometry; logical argument and constructions; proof and congruence; similarity, proof, and trigonometry; two- and three-dimensional figures; circles; and probability. In proof and congruence, students will use deductive reasoning to justify, prove and apply theorems about geometric figures. Students will apply theorems about circles to determine relationships between special segments and angles in circles. The use of current technology as problem-solving and discovery tools will be integrated throughout the course whenever possible.

**Geometry Advanced (2213) 1 credit (state)**

GPA Level 1

Grade Level(s): 9-12

Service ID: 03100700

Prerequisite(s): Algebra I.

Notes: NCAA approved core course.

Geometry Advanced is a rigorous course that focuses on logical reasoning and problem solving skills for real world application. In addition to the material covered in the regular geometry class, this more advanced course delves into deductive reasoning through an intensive study of logic. The use of current technology as problem-solving and discovery tools will be integrated throughout the course whenever possible. This course is designed for self-motivated, math-oriented students and meets the requirements for GT.

**Mathematical Models with Applications (2229) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 03100700

Prerequisite(s): Algebra I or concurrent with Geometry.

Notes: This course is not open to students who have received credit for either semester of Algebra II or Algebra Reasoning.

Mathematical Models with Applications is designed to build on the knowledge and skills for mathematics in Algebra I and Geometry. Students learn to apply mathematics through experiences in personal finance, science, engineering, fine arts, and social sciences. Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, model information, solve problems, and communicate solutions. Students will select from tools such as physical objects; manipulatives; technology, including graphing calculators, data collection devices, and computers; and paper and pencil and from methods such as algebraic techniques, geometric reasoning, patterns, and mental math to solve problems. The next recommended math course is Algebra II or Algebraic Reasoning.

**Algebraic Reasoning (221500) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 03102540

Prerequisite(s): Algebra I or concurrent with Geometry.

Notes:

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

**Algebra II (2222) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 03100600

Prerequisite(s): Algebra I or Algebra I Advanced

Notes: This course is required for students graduating with a STEM endorsement or with the Distinguished Level of Achievement under the FHSP. NCAA approved core course.

Algebra II is an advanced algebra course. It is designed for students who have mastered the content for Algebra I. Students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Students will study logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Students will connect functions to their inverses and associated equations and solutions in both mathematical and real world situations. In addition, students will extend their knowledge of data analysis and numeric and algebraic methods. The use of current technology as problem-solving and discovery tools will be integrated throughout the course whenever possible.

**Algebra II Advanced (2223) 1 credit (state)**

GPA Level 1

Grade Level(s): 10-12

Service ID: 03100600

Prerequisite(s): Algebra I or Algebra I Advanced

Notes: This course is required for students graduating with a STEM endorsement or with the Distinguished Level of Achievement under the FHSP. NCAA approved core course.

Algebra II Advanced moves at an accelerated pace requiring less repetitive reinforcement of concepts than the On-level course. The Advanced 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 will be 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 will be 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 GT.

**Algebra III (2225) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 03102500

Prerequisite(s): Geometry and Algebra II

Notes: This course will appear in the high school transcript as *Independent Study in Mathematics*.  
NCAA approved core course.

Algebra III is designed for students who have completed Algebra II but have not yet taken College Algebra Advanced or Pre-Calculus Advanced. Topics include polynomial functions, sequences and series, exponential and logarithmic functions, quadratic functions, matrices, trigonometry, and statistics.

**College Prep Algebra (224000) 1 credit (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 224000

Prerequisite(s): Geometry and Algebra II

Notes: NCAA approved core course

This course is an intensive bridge class designed to prepare students for college level mathematics courses including College Algebra. Topics include special products and factoring, rational expressions and equations, rational exponents, radicals, radical equations, quadratic equations, absolute value equations and inequalities, complex numbers, equations of lines, and introduction to the function concept, and graphing. Successful completion of the bridge course fulfills TSI requirements for mathematics. The next recommended course is College Algebra Dual.

**Statistics (223400) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 03102530

Prerequisite(s): Algebra I and Geometry.

Notes: NCAA approved core course

In Statistics, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I. Students will broaden their knowledge of variability and statistical processes. Students will study sampling and experimentation, categorical and quantitative data, probability and random variables, inferences, and bivariate data. Students will connect data and statistical processes to real-world situations. In addition, students will extend their knowledge of data analysis.

**AP Statistics (2234) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: A3100200

Prerequisite(s): Geometry and Algebra II.

Notes: This course prepares students for the College Board Advanced Placement Statistics exam. NCAA approved core course.

AP Statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes that include exploring data, observing patterns and departures from patterns, planning a study, deciding how to measure, anticipating patterns, producing models using probability and simulation, statistical inferences, and confirming models. AP Statistics introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data.

**Statistics Dual (223434) 1 credit (state)**

GPA Level 1

Grade Level(s): 12

Service ID: 223430

Prerequisite(s): Geometry and Algebra II and fulfillment of college admissions requirements.

Notes: Credit for MATH 1342 will be awarded by Lone Star College.

This course includes topics from presentation and interpretation of data, probability, sampling, correlation and regression, analysis of variance, and the use of statistical software. Upon successful completion of this course, students will explain the use of data collection and statistics as tools to reach reasonable conclusions; recognize, examine and interpret the basic principles of describing and presenting data; compute and interpret empirical and theoretical probabilities using the rules of probabilities and combinatorics; explain the role of probability in statistics; examine, analyze and compare various sampling distributions for both discrete and continuous random variables; describe and compute confidence intervals; solve 68 linear regression and correlation problems; and perform hypothesis testing using statistical methods.

**Statistics Dual (OnRamps) (2234DOR) 1 credit (state)**

GPA Level 1

Grade Level(s): 12

Service ID: 03102530

Prerequisite(s): Algebra 1, Geometry and Algebra II and fulfillment of college admissions requirements.

Notes: Credit for SDS 302 (MATH 1342) will be awarded by UT Austin for students who meet grading criteria. Additional fees apply with all OnRamps courses and district scholarships are available.

In this course students will hone relevant mathematical and critical thinking skills through scaffolded learning experiences and statistical methodologies. Students will learn the foundations of data science by engaging in hands-on analysis of real data, methods to extract key insights and coding skills aligned to the expectations of higher education and today's workplace. Students will experience interactive applications built into the high-quality curriculum designed by the faculty at The University of Texas at Austin, allowing them to discover a more intuitive understanding of concepts. Collaborative problem-solving will be used to strengthen mathematical connections while individual depth of understanding will be reflected in regular assessments. Students enrolled in OnRamps courses have an opportunity to earn a UT transcribed course grade and credit as long as they meet certain grade criteria. Earned college credit.

**College Prep Statistics (224100) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 224100A

Prerequisite(s): Geometry and Algebra II

Notes:

This course surveys a variety of mathematical topics needed to prepare students for college level statistics or quantitative reasoning. Topics include: numeracy with an emphasis on estimation and fluency with large numbers; evaluating expressions and formulas; rates, ratios, and proportions; percentages; solving equations; linear models; data interpretations including graphs and tables; verbal, algebraic and graphical representations of functions; exponential models. Successful completion of the bridge course fulfills TSI requirements for mathematics. Recommended next course is Elementary Statistics Dual.

**College Algebra Dual (223034) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 03102500

Prerequisite(s): Algebra I, Geometry and Algebra II and fulfillment of college admissions.

Notes: This course will appear on the high school transcript as Independent Study in Mathematics.

College Algebra Dual is designed for students who have completed Algebra II but have not yet taken Pre-Calculus Advanced. Topics include absolute value equations and inequalities, graphing skills, inverse functions, logarithmic and exponential functions, polynomial and rational functions, piecewise-defined functions, theory of equations and systems of equations. Credit for MATH 1314 will be awarded by Lone Star College. The next recommended course is Pre-Calculus Advanced, Finite Math, or AP Statistics/Statistics Dual.

**College Algebra Dual (OnRamps) (2230DOR) 1 credit (state)**

GPA Level 1

Grade Level(s): 12

Service ID: 03102500

Prerequisite(s): Algebra I, Geometry and Algebra II

Notes: Credit for M301 (MATH 1314) may be awarded by UT Austin for students who meet grading criteria. Additional fees apply with all OnRamps courses and district scholarships are available.

In this course students deepen their critical thinking skills and develop their ability to persist through challenges as they explore function families: Linear, Absolute Value, Quadratic, Polynomial, Radical, Rational, Exponential, and Logarithmic. Students analyze data algebraically and with technology while developing their knowledge of properties of functions, matrices and systems of equations, and complex numbers. Students will experience a high-quality curriculum designed by the faculty at The University of Texas at Austin. The pedagogy of the course, Inquiry-Based Learning, encourages students to take an active role in the construction of their learning. This learning will be accomplished by abstraction, generalization, problem-solving, and modeling. Students enrolled in OnRamps courses have an opportunity to earn a UT transcribed course grade and credit as long as they meet certain grade criteria.

**Finite Mathematics Dual (223130) 1/2 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 3102501

Prerequisite(s): College Algebra (Math 1314)

Notes: This course will appear on the high school transcript as Independent Study in Mathematics.

Finite Math Dual (Math 1324) is designed for students who have completed College Algebra (Math 1314). Applications of common algebraic functions, including polynomial, exponential, logarithmic, and rational, to problems in business, economics, and the social sciences are addressed. The applications include mathematics of finance, including simple and compound interest and annuities; systems of linear equations; matrices; linear programming; and probability, including expected value. Credit for MATH 1324 will be awarded by Lone Star College.

**Advanced Quantitative Reasoning (222700) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 3020000

Prerequisite(s): Geometry and Algebra II

Notes: NCAA approved core course.

Quantitative Reasoning (AQR) is a mathematics course that emphasizes statistics and financial applications, and it prepares students to use algebra, geometry, trigonometry, and discrete mathematics to model a range of situations and solve problems. Emphasis is placed on the application of methods, concepts, definitions and theorems in algebra, geometry and statistics.

**Pre-Calculus Advanced/AB (2233)(2233D) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 3101100

Prerequisite(s): Geometry and Algebra II and fulfillment of college admissions requirements if taken for dual credit

Notes: Lone Star College MATH 1316 and Math 2412. NCAA approved core course.

Pre-Calculus Advanced/AB is taught 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 identities 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. The next recommended course is AP Statistics or AP Calculus AB. Dual credit from Lone Star College is available. To enroll in dual credit Calculus, the student must first take this course for dual credit.

**Pre-Calculus Advanced/BC (2235)(2235D) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 3101100

Prerequisite(s): Geometry and Algebra II and fulfillment of college admissions requirements if taken for dual credit

Notes: Lone Star College MATH 1316 and Math 2412. NCAA approved core course.

Pre-Calculus Advanced/BC is also taught from a functional approach integrating the topics of trigonometry, elementary analysis, analytic geometry, and number theory. It covers all the topics of the Pre-Calculus Advanced/AB with more emphasis on real-world applications and more in-depth study of the topics. The pace is accelerated by comparison in order to facilitate further study of early Calculus topics such as derivatives (constant, power, sum, product, quotient and chain rules), analysis and graphing of functions using derivatives, and optimization problems and meets the requirements for GT. Whenever possible; the use of technology is incorporated with traditional problem-solving methods. The next recommended course is AP Calculus BC. Dual credit from Lone Star College is available. To enroll in dual credit Calculus, the student must first take this course for dual credit.

**Pre-Calculus Dual (OnRamps) (2233 DOR) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 03101100

Prerequisite(s): Algebra I, Geometry and Algebra II

Notes: Credit for M305G (MATH 2312) may be awarded by UT Austin for students who meet grading criteria. Additional fees apply with all OnRamps courses and district scholarships are available.

In this course students will deepen and extend their knowledge of functions, graphs, and equations from their high school algebra and geometry courses so they can successfully work with the concepts in a rigorous university-level calculus course. This course is designed to push students well beyond “drill and kill” type exercises, with an emphasis on unpacking mathematical definitions and making logical arguments to their peers. Each unit consists of a series of explorations designed to engage students and empower them to develop their problem-solving skills. In each exploration, students will create connections with prior concepts in developing the current topic. Students will experience high-quality curriculum designed by the faculty at The University of Texas at Austin. The pedagogy of the course, Inquiry Based Learning, encourages students to take an active role in the construction of their learning. Students enrolled in OnRamps courses have an opportunity to earn a UT transcribed course grade and credit as long as they meet certain grade criteria.

**AP Calculus AB (2243)(2243D) 1 credit (state)**

GPA Level 1

Grade Level(s): 12

Service ID: A3100101

Prerequisite(s): Pre-Calculus Advanced/AB or Pre-Calculus Advanced/BC

Notes: NCAA approved core course.

Advanced Placement Calculus AB covers the topics of elementary functions, differential and integral calculus. Students will 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 integrate logarithmic and exponential functions in addition to inverse trigonometric functions, apply L'Hopital's Rule to evaluate limits of indeterminate forms. The course is primarily concerned with an intuitive understanding of the concepts of Calculus with emphasis on methods and applications. When possible the use of MATHEMATICS technology is incorporated with traditional problem-solving methods. After successful completion of the course, the student should be prepared to take the College Board AB Advanced Placement exam in May. Dual credit from Lone Star College is available.

**AP Calculus BC (2244)(2244D) 1 credit (state)**

GPA Level 1

Grade Level(s): 12

Service ID: A3100102

Prerequisite(s): Pre-Calculus Advanced/AB or Pre-Calculus Advanced/BC

Notes: NCAA approved core course.

The BC course of AP Calculus covers all the topics in the AB course plus the student will learn to differentiate and integrate hyperbolic functions, use more advanced techniques of integration, evaluate improper integrals, use differentiation and integration to explore parametric equations and polar coordinates and vectors, apply various tests using infinite series and determine Taylor Series representations of functions as well as the radius of convergence. Whenever possible, the use of technology is incorporated with traditional problem-solving methods. The student will be prepared to take the College Board BC Advanced Placement exam in May. Dual credit from Lone Star College is available.

**Advanced Placement Computer Science A (CT103303) 1 credit (state)**

GPA Level 1

Grade Level(s): 10-12

Service ID: A3580120

Prerequisite(s): Computer Science I and/or concurrent Algebra II

Notes: Course counts as LOTE credit and Math credit; There are additional fees associated with this course.

Students will learn more advanced problem solving and computer science basics using the Java programming language. This course emphasizes programming methodology, procedural abstraction, and in-depth study of algorithms, data structures, and data abstractions, as well as a detailed examination of a large case study program. Instruction will include preparation for the College Board Advanced Placement Computer Science A examination.

**Accounting II (CT618) 1 Math credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13016700

Prerequisite(s): Accounting I

Notes: The fee for this course is \$40.00. Dual Credit option through Lone Star College-Kingwood.

Students continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage in various managerial and cost accounting activities. Students formulate and interpret financial information for use in management decision making. This course may satisfy a high school mathematics graduation requirement.

**Statistics and Business Decision Making (CT620) 1 credit CTE (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13016900

Prerequisite(s): Algebra II

Notes:

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. This course satisfies a high school mathematics graduation requirement.

**Mathematics for Medical Professionals (CT755) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13020970

Prerequisite(s): Geometry and Algebra II

Notes:

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.

**IB Mathematics SL (2224I) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: I3100200

Prerequisite(s): Acceptance into the International Baccalaureate Diploma Program and completion of Algebra I, Geometry, and Algebra II.

Notes: NCAA approved core course.

The IB Mathematics SL course caters to students who already possess knowledge of basic mathematical concepts, and who are equipped with the skills needed to apply simple mathematical techniques correctly. The majority of these students will expect to need a sound mathematical background as they prepare for future studies in subjects such as chemistry, economics, psychology and business administration. The internally assessed component, the exploration, offers students the opportunity for developing independence in their mathematical learning. Students are encouraged to take a considered approach to various mathematical activities and to explore different mathematical ideas. The exploration also allows students to work without the time constraints of a written examination and to develop the skills they need for communicating mathematical ideas.

**IB Mathematics Applications and Interpretations SL (622472) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: I3100700

Prerequisite(s): Acceptance into the International Baccalaureate Diploma Program and completion of Algebra I, Geometry, and Algebra II.

Notes: NCAA approved core course.

Mathematics SL Applications and Interpretation is a course designed for students who wish to gain a good knowledge of mathematics, but with an emphasis on the applied nature of the subject. They may have found more traditional mathematics courses a challenge and it will appeal to students who enjoy the practical application of mathematics to real life situations. This course is suitable for students who may go on to further study in subjects that utilize mathematics in this way such as biology, the human sciences and business.

**IB Mathematics Analysis and Approaches SL (6224720) 1 credit (state)**

GPA Level 1

Grade Level(s): 11

Service ID: I3100500

Prerequisite(s): Acceptance into the International Baccalaureate Diploma Program and completion of Algebra II.

Notes: NCAA approved core course.

Mathematics SL Analysis and Approaches is a course designed for students who wish to study a deeper level of mathematics. It will appeal to students who are interested in exploring real and abstract applications of mathematical concepts. They will enjoy problem solving and generalization. This course is suitable for students who may go on to further study in subjects that have a mathematical background, for example economics, geography and chemistry.

## SCIENCE

### **Integrated Physics and Chemistry (3307) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03060201

Prerequisite(s):

Notes: This course does not count for the Distinguished Achievement Plan. This class does not count as a Physics credit on the RHSP. NCAA approved core course.

Integrated Physics and Chemistry is designed to provide a foundation in the physical sciences for those students seeking additional skill development before continuing on with more advanced science courses. Although this course is taught in a conceptual manner, mathematical analysis of scientific concepts will also be presented. Laboratory activities are an integral part of this course used not only to reinforce concepts but also to give students hands-on experience in making inferences and predictions, collecting data, and drawing conclusions.

### **Integrated Physics and Chemistry Advanced (3308) 1 credit (state)**

GPA Level 1

Grade Level(s): 9-12

Service ID: 03060201

Prerequisite(s):

Notes: This course does not count for the Distinguished Achievement Plan. This class does not count as a Physics credit on the RHSP. NCAA approved core course.

Integrated Physics and Chemistry Honors is designed to provide a solid foundation in chemistry and physics for those students intending to continue science studies in Chemistry and/or Physics. Equal emphasis will be placed on concepts and mathematical analysis of topics in physics and chemistry. Laboratory activities, as well as projects, are an integral part of this course, used to not only reinforce concepts but also to give students hands-on experience in making inferences and predictions, collecting data and drawing conclusions.

### **Biology (3321) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-10

Service ID: 03010207

Prerequisite(s):

Notes: This course will be assessed by the Biology STAAR EOC. NCAA approved core course.

Biology is designed to provide students with a comprehensive foundation in all major branches of biology. The course covers science process skills, biochemistry, cellular biology, genetics, evolution, botany, zoology, ecology, and human body systems. Laboratory work is used throughout to facilitate the student's understanding. Labs include working with models; making chemical determinations; doing dissections of frogs, rats, and some invertebrates; classifying and identifying plants and animals; charting the growth and development of living organisms.

### **Biology Advanced (3323) 1 credit (state)**

GPA Level 1

Grade Level(s): 9-10

Service ID: 03010207

Prerequisite(s):

Notes: This course will be assessed by the Biology STAAR EOC. NCAA approved core course.

Biology Advanced is an accelerated class for those qualifying students who wish to do an in-depth study of living things. The course begins with science process skills and biochemistry and continues with a study of comparative anatomy, cellular biology, genetics, evolution, taxonomy, botany, zoology, ecology, and the human body. Emphasis is placed on current research as well as general biological concepts. Extensive laboratory work, including dissection, is used to facilitate the student's understanding of the concepts presented in the course. Higher level thinking skills are taught, and students are encouraged to use them in creative problem-solving projects. Also, incorporated into the curriculum in appropriate places are activities involving model building, surveys, library research, and extended individual research problems. Extensive technical reading and writing are also required.

**AP Biology (3329) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: A3010200

Prerequisite(s): Biology and Chemistry

Notes: NCAA approved core course.

AP Biology is designed for science-oriented students who are interested in taking the College Board Advanced Placement test. The course work includes the origin of living things, biology of the cell, energetics, reproduction and heredity, genetics, evolution, ecology, biology of viruses and simple organisms, biology of plants, biology of animals, and vertebrate biology. Molecular biology is stressed throughout the year with emphasis on the biochemical basis of living things. Extensive student-designed laboratory work, as well as current literature, is incorporated for expansion of textbook information. Preparation for the College Board Advanced Placement test will be emphasized throughout the year, with in-depth focus prior to the exam. Particular attention will be given to written discussion of theoretical and technical material.

**Dual Credit Biology (3329D) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: A3010200

Prerequisite(s): Biology and Chemistry

Notes: Lone Star College BIOL 1406. NCAA approved core course.

Dual Credit Biology is designed for the science-oriented students who are interested in earning 4 credit hours of college biology through Lone Star College (Biology 1406) in addition to high school credit. The course work includes applications of the scientific method, cellular and molecular biology, biochemistry, energetics, classical and human genetics, virology and mechanisms of evolution. Molecular biology is stressed throughout the year with emphasis on the biochemical basis of living things. Extensive laboratory investigations and current literature are incorporated to provide the conceptual framework and analytical skills necessary to deal critically with the changing field of biology.

**Biology Dual (OnRamps) (3321DOR) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 13037210

Prerequisite(s): Biology, Chemistry

Notes: Credit for Bio 311C (BIOL 1306) and BIO 206LA (BIOL 1106) may be awarded by UT Austin for students who meet grading criteria. Additional fees apply with all OnRamps courses and district scholarships are available. NCAA approved core course.

Molecular and cellular biology is the focus of this introductory biology course. This year-long course explores three big ideas of biology: the structure and function of biomolecules, the flow of energy through living systems via photosynthesis and cellular respiration, and how genetic information is expressed and transmitted both within and between cells. At its core, this course is focused on teaching students how to think like scientists. How do scientists think? They acquire knowledge through discovery—both within and outside a laboratory environment. They communicate their conclusions to others and use critical feedback to improve their scientific thinking. With practice and continued application, scientists strengthen their skills in scientific thinking and grow their craft. Students will learn how to apply critical thinking and quantitative skills to real-world scenarios. They will develop their scientific thinking skills through Peer Instruction, laboratory activities, and active learning in an inclusive classroom environment. Additionally, students will be guided in the development and integration of verbal, written, and graphical communication skills. Students enrolled in OnRamps courses have an opportunity to earn a UT transcribed course grade and credit as long as they meet certain grade criteria.

**Chemistry (3331) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-11

Service ID: 03040000

Prerequisite(s): Biology and Algebra I, completion of or concurrent enrollment in Geometry.

Notes: NCAA approved core course.

The curriculum is designed to achieve the following objectives: to become proficient in the use of the scientific process skills 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.

**Chemistry Advanced (3333) 1 credit (state)**

GPA Level 1

Grade Level(s): 10-11

Service ID: 03040000

Prerequisite(s): Biology and Algebra I, completion of or concurrent enrollment in Geometry.

Notes: It is recommended that students have completed Geometry or are concurrently enrolled in Algebra II.  
NCAA approved core course.

The Chemistry Advanced curriculum is designed for students to achieve the following objectives: to become proficient in the use of the scientific process skills and laboratory equipment, to solve problems using dimensional analysis and the mole concepts, to understand the properties of matter and energy and use this information quantitatively and qualitatively to predict 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.

**AP Chemistry (3334) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: A3040000

Prerequisite(s): Biology, Chemistry, and Algebra II

Notes:

This course offers students advanced level and enrichment experiences in concepts involving the chemical changes of matter. Included in this course are advanced investigations and presentations of the theory of atomic spectra, bond strength, reactivity series, determination of molecular mass, and techniques used in laboratory investigations. This course is designed to aid students in obtaining advanced collegiate placement in the chemical sciences, in applying relevant principles and concepts to both familiar and unfamiliar situations, and in practicing appropriate research methods. Class work involves lecture/lab, student presentations, and group problem solving.

**Dual Credit Chemistry (3334D) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: A3040000

Prerequisite(s): Biology, Chemistry and Physics or concurrent enrollment in Physics

Notes: Lone Star College CHEM 1411

Dual Credit Chemistry is designed for science-oriented students who are interested in earning 4 credit hours of college chemistry through Lone Star College (Chemistry 1411) in addition to high school credit. Topics include a mathematical introduction (metric system, significant figures, and scientific notation), discussion of atoms, molecules and ions, stoichiometry, electronic structure, periodic relationships, bonding, molecular geometry and properties of gases, liquids, solids and solutions. Appropriate lab experiments are included.

**Chemistry I Dual (OnRamps) (3334DOR) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: A3040000

Prerequisite(s): Biology, Chemistry and Physics or concurrent enrollment in Physics

Notes: Credit for CH 301 + CH 104M (CHEM 1411) may be awarded by UT Austin for students who meet grading criteria. Additional fees apply with all OnRamps courses and district scholarships are available.

The Principles of Chemistry I course addresses the nature of matter, energy, chemical reactions, and chemical thermodynamics. The course reviews descriptive chemistry of matter in the natural world as well as compositional and reaction stoichiometry of chemical compounds. Throughout the course, students learn to think like scientists by exploring the underlying theoretical foundations of chemistry, making intuitive arguments for how the world works, and supporting those arguments with quantitative measures. Built with an intention to engage students from a variety of backgrounds, students in the course will learn how to successfully study science by organizing their learning around mastery and ownership of materials. Introduction to Chemical Practices I—the course's lab component—provides an introduction to the techniques of modern experimental chemistry and is designed to instill basic laboratory and analytical skills. Students enrolled in OnRamps courses have an opportunity to earn a UT transcribed course grade and credit as long as they meet certain grade criteria.

**Chemistry II Dual (OnRamps) (3335DOR) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID:13037200

Prerequisite(s): Biology, Chemistry and Physics or concurrent enrollment in Physics

Notes: Credit for CH 302 + CH 104N (CHEM 1412) may be awarded by UT Austin for students who meet grading criteria. Additional fees apply with all OnRamps courses and district scholarships are available. NCAA approved core course.

The College Chemistry II course continues the development and application of concepts, theories, and laws underlying chemistry that were introduced in Principles of Chemistry I. The course extends the study of thermodynamics taught in Principles of Chemistry I to the development of chemical equilibria and kinetics with applications to water chemistry and electrochemistry. In addition, students will gain insight into the workings of the material world through an introduction to nuclear chemistry, battery technology, polymer chemistry, and applications in organic chemistry and biochemistry. Introduction to Chemical Practices II—the course's lab component—provides laboratory exercises that focus on analytical laboratory techniques, modern chemistry instrumentation, such as spectrophotometers, voltage probes, and a variety of experimental protocols of how to analyze and identify unknowns. Students enrolled in OnRamps courses have an opportunity to earn a UT transcribed course grade and credit as long as they meet certain grade criteria.

**Physics (3341) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 03050000

Prerequisite(s): Biology, Chemistry and completion or concurrent enrollment in Algebra II

Notes: It is strongly recommended that the student has completed Chemistry. NCAA approved core course.

Physics is designed for students who are interested in science and are 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 students' understanding of basic physical concepts.

**Advanced Physics (3343) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 03050000

Prerequisite(s): Biology, Chemistry and completion or concurrent enrollment in Algebra II

Notes: It is strongly recommended that the student has completed chemistry.

Advanced Physics is designed for students who are interested in science and are planning a career in engineering, technical business, science, or mathematics. Topics covered in the course include kinematics, dynamics, heat, light, sound, and electricity. Learning experiences include laboratory investigations, demonstrations, discussions, and problem-solving activities that align with and prepare students for success in future advanced physics courses and deepen students' understanding of physics concepts.

**AP Physics Year 1: Algebra Based (333503) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: A3050003

Prerequisite(s): Concurrent enrollment or completion of Algebra II

Notes: The AP Physics I exam can be taken at the end of the year for this course. NCAA approved core course.

AP Physics 1: Algebra Based is the equivalent to a first semester college course in algebra-based physics. The course covers Newtonian mechanics, including rotational dynamics and angular momentum, work, energy, and power, and mechanical waves and sound. It will also introduce electric circuits.

**AP Physics Year 2: Algebra Based (333603) 1 credit (state)**

GPA Level 1

Grade Level(s): 12

Service ID: A3050004

Prerequisite(s): Concurrent enrollment or completion of PreCalculus

Notes: The AP Physics II exam can be taken at the end of the year for this course. NCAA approved core course.

AP Physics 2: Algebra Based is equivalent to a second semester college course in algebra-based physics. The course covers fluid mechanics, thermodynamics, electricity and magnetism, optics, and atomic and nuclear physics.

**AP Physics C (3344) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: A3050006

Prerequisite(s): Biology, Chemistry, Physics, and PreCalculus; concurrent enrollment in Calculus

Notes: Preparation for the College Board Advanced Placement Exam will be emphasized throughout the year. NCAA approved core course.

AP Physics is a calculus-based course for students planning future study in the physical sciences or engineering. It is an intensive, analytic study involving a variety of challenging problems with equal emphasis on mechanics and electricity/magnetism.

**Physics I Dual (OnRamps) (3341) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 03050000

Prerequisite(s): Biology, Chemistry and completion or concurrent enrollment in Algebra II; It is strongly recommended that the student has completed Chemistry.

Notes: Credit for PHY 302K (PHYS 1301) may be awarded by UT Austin for students who meet grading criteria. Additional fees apply with all OnRamps courses and district scholarships are available. NCAA approved core course.

Mechanics, Heat, and Sound introduces big ideas in physics, such as Newtonian mechanics (including motion, force, energy, and rotation), as well as solid and fluid mechanics, oscillations, waves, sound, and heat. Taken together, the topics reinforce the general idea that the behavior of many systems in the world can be described precisely with simple mathematics. This is an algebra-based (non-calculus) course in mechanics that fulfills a general physics requirement. Proficiency in algebra and geometry is assumed. This course lays the conceptual groundwork for STEM majors. Students will experience a high-quality curriculum designed by the faculty at The University of Texas at Austin (UT Austin). General Physics Laboratory I—the course’s lab component—engages students in both guided and open inquiry investigations of physical principles. It is designed to instill foundational scientific reasoning, data collection, and analytical skills. Students enrolled in OnRamps courses have an opportunity to earn a UT transcribed course grade and credit as long as they meet certain grade criteria.

**Physics II Dual (OnRamps) (3344DOR) 1 credit (state)**

GPA Level 1

Grade Level(s): 12

Service ID: 13037220

Prerequisite(s): Biology, Chemistry, Physics I and completion or concurrent enrollment in Algebra II; It is strongly recommended that the student has completed AP Physics I, Dual Credit Physics 1301, or OnRamps Physics I.

Notes: Credit for PHY 302L (PHYS 1302) may be awarded by UT Austin for students who meet grading criteria. Additional fees apply with all OnRamps courses and district scholarships are available.

Electromagnetism, Optics, and Nuclear Physics serves as an introduction to electricity, magnetism, optics, waves, and quantum and nuclear physics. Students will explore these topics as they obtain practical experience with electrical circuits and optical devices. Students will also investigate modern physical phenomena, including the quantum nature of light (photons) and properties of the atomic nucleus. Students will learn both how scientific inquiry reveals the fundamental properties of the universe and how these properties are applied in technologies that shape the modern world. This is the second course in a sequence of algebra-based (non-calculus) courses, designed by the faculty at The University of Texas at Austin (UT Austin), which fulfills a general physics requirement. Proficiency in algebra and geometry is assumed. Students will develop critical thinking, empirical, and quantitative skills through analysis of physical situations and problem solving. Students enrolled in OnRamps courses have an opportunity to earn a UT transcribed course grade and credit as long as they meet certain grade criteria.

**Environmental Systems (3328) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-11

Service ID: 3020000

Prerequisite(s):

Notes: NCAA approved core course.

This course is designed for underprepared life science students who need to strengthen critical thinking and scientific problem-solving skills. 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, and sources and flow of energy.

**AP Environmental Science (3330) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: A3020000

Prerequisite(s): Biology *and* either Integrated Physics and Chemistry or Chemistry

Notes: Certain universities require credit in Chemistry prior to taking this course in order to grant a science credit for enrollment. Be sure to check on the specific requirements for the college/university of your choice. NCAA approved core course.

Environmental Science AP is designed for science-oriented students who are interested in taking the College Board Advanced Placement Test. Included in this course are in-depth investigations of the scientific principles, concepts, and methods required to understand the interrelationships of the natural world, to identify and analyze environmental problems, both natural and man-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. The course will include extensive laboratory and fieldwork, both teacher-directed and student-designed. The student will be expected to read and evaluate a large amount of material and will be expected to conduct independent and guided research.

**Dual Credit Environmental Science (332834) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 03020000

Prerequisite(s): Biology and either Integrated Physics and Chemistry or Chemistry

Notes: Certain universities require credit in Chemistry prior to taking this course in order to grant a science credit for enrollment. Be sure to check on the specific requirements for the college/university of your choice.

Environmental Science AP is designed for science-oriented students who are interested in taking the College Board Advanced Placement Test. Included in this course are in-depth investigations of the scientific principles, concepts, and methods required to understand the interrelationships of the natural world, to identify and analyze environmental problems, both natural and man-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. The course will include extensive laboratory and fieldwork, both teacher-directed and student-designed. The student will be expected to read and evaluate a large amount of material and will be expected to conduct independent and guided research.

**Geoscience Dual (OnRamps) (3348DOR) 1 credit (state)**

GPA Level 1

Grade Level(s): 10-12

Service ID:3060200

Prerequisite(s): Biology, Integrated Physics and Chemistry *and* completion *or* concurrent enrollment in Chemistry

Notes: Credit for PHY 302L (PHYS 1302) may be awarded by UT Austin for students who meet grading criteria. Additional fees apply with all OnRamps courses and district scholarships are available.

Earth, Wind, and Fire is a course in geoscience literacy. It covers the fundamentals of how the Earth works, and how its various systems—the lithosphere, atmosphere, hydrosphere, and biosphere—interact to form the complex world in which we live. Geoscience is the study of the Earth. It is an integrated science drawing on the fundamental principles of physics, chemistry, biology, and geosciences to explain Earth processes. Many of the most complex and interesting scientific problems of this century, such as energy resources, water supply, and climate change, require geologic thinking skills to solve. This class introduces students to the major areas in geoscience and helps them develop critical, creative, and geologic problem-solving skills, as applied to 21st-century scientific problems. Students enrolled in OnRamps courses have an opportunity to earn a UT transcribed course grade and credit as long as they meet certain grade criteria.

**Aquatic Science (332720) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 03030000

Prerequisite(s): Biology and either Integrated Physics and Chemistry or Chemistry

Notes: NCAA approved core course.

Aquatics Science is a one-year course in which students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: components of aquatic ecosystems; relationships among aquatic habitats and ecosystems; roles of cycles within an aquatic environment; adaptations of aquatic organisms; changes within aquatic environments; and geological phenomena and fluid dynamics effects. Certain universities require credit in Chemistry prior to taking this course in order to grant a science credit for enrollment. Be sure to check on the specific requirements for the college/university of your choice.

**Astronomy (334525) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 03060100

Prerequisite(s): Biology, Chemistry or Integrated Physics and Chemistry

Notes: NCAA approved core course.

In Astronomy, students conduct field and laboratory investigations, use scientific methods, and make informed decisions using critical thinking and scientific problem solving. Students study the following topics: astronomy in civilization, patterns and objects in the sky, our place in space, the moon, and reasons for the seasons, planets, the sun, stars, galaxies, cosmology, and space exploration.

**Earth and Space Science (334820) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 03060200

Prerequisite(s): Biology *and* Integrated Physics and Chemistry or Chemistry

Notes: NCAA approved core course.

Earth and Space Science focuses on the three themes. The first theme, Earth in space and time, focuses on our understanding of the origin, evolution, and properties of Earth and planetary systems within a chronological framework. The second theme is Solid Earth, which includes the study of the earth's interior or geosphere. The final theme is Fluid Earth which includes the atmosphere and ocean systems and their interactions.

**Animal Science (CT110) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13000700

Prerequisite(s): Biology and Chemistry or Integrated Physics and Chemistry; Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production. Recommended: Veterinary Medical Applications

Notes:

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.

**Aeroscience I (CT1410) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13037200

Prerequisite(s): Biology, Chemistry, or Physics, Recommended: Engineering Design

Notes:

This course applies the principles of physics to design and launch rockets. This is a practical application of physics to help students develop an interest in science and engineering. The class helps broaden students' opportunities, and allow them to do things that they did not think they could do. Students begin to display an increased self-motivation, leadership, and an enthusiasm for science and engineering. The goal of the aerospace science class is to build a rocket that travels one mile high carrying a payload weighing one pound or less.

**Aeroscience II (CT1411) 1 credit (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 13037500

Prerequisite(s): Aeroscience I

Notes:

This course builds upon the knowledge and skills gained by students in the Aeroscience I course with increased project scope and expectations. Students continue to learn problem-solving skills, to complete a design and development project with these two success criteria: rocket on the pad by scheduled date and flight performance to achieve transonic velocity while staying under a 13,000-ft ceiling. This course also cultivates additional life skills such as teamwork, critical thinking, design and development, testing and analysis, and documentation.

**Anatomy and Physiology of Human Systems Honors(CT750) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 13020600

Prerequisite(s): Biology and Chemistry

Notes: NCAA approved core course.

Anatomy and Physiology of Human Systems is an advanced course designed to give students a thorough knowledge of both the structures and functions of the human body. The course is divided into five principal areas of concentration: organization, support and movement, control systems, maintenance, and continuity. The first area covers organization of the body from the molecular level to organ systems. The second area is a study of the skeletal and muscular systems. Included in control systems is a study of the nervous system and the endocrine system. The maintenance area focuses on the roles of the cardiovascular, respiratory, digestive, and excretory systems. In each of the areas, both homeostasis and pathology are considered. Laboratory work is an integral part of the course. Approximately twelve weeks are devoted solely to the cat dissection. Lab practicals are incorporated into most areas of the laboratory work.

**Dual Credit Anatomy and Physiology of Human Systems (CT750D) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 13020600

Prerequisite(s): Biology and Chemistry

Notes: NCAA approved core course.

Dual Credit Anatomy and Physiology is designed for science-oriented students who are interested in earning 4 credit hours of college biology through Lone Star College (Biology 2401) in addition to high school credit. Course instruction and assessments are aligned with Lone Star College requirements. The course begins with organization of the body from the molecular level to the organ systems. The second area of study focuses on the skeletal system and muscular systems. The last area of study is the control system, which includes the nervous system and endocrine system. In each of the areas, both homeostasis and pathology are considered. Approximately twelve weeks is devoted solely to cat dissection as it applies to the five principal areas. Lab practicals are incorporated into most areas of the laboratory work.

**Biotechnology I (CT1830) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13036400

Prerequisite(s): Biology, Recommended: Principles of Biosciences and Chemistry

Notes: Located at HHS.

In this course, students will apply advanced academic knowledge and skills to the emerging fields of biotechnology such as agricultural, medical, regulatory, and forensics. Students will have the opportunity to use sophisticated laboratory equipment, perform statistical analysis, and practice quality-control techniques. Students will conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Biotechnology I will study a variety of topics that include structures and functions of cells, nucleic acids, proteins, and genetics.

**Forensic Science (CT1109) 1 credit CTE (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13029500

Prerequisite(s): Biology *or* Chemistry

Notes: NCAA approved core course.

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

**Medical Microbiology (CT705) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13020700

Prerequisite(s): Biology and Chemistry; Recommended: A course from the Health Science cluster

Notes: NCAA approved core course.

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

**Pathophysiology (CT707) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13020800

Prerequisite(s): Biology and Chemistry; Recommended: A course from the Health Science cluster

Notes:

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.

**Principles of Physics (CT1402) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13037100

Prerequisite(s): Biology, Integrated Physics and Chemistry (IPC) or Chemistry

Notes: This course counts for a third year science credit.

In Principles of Physics, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Various systems will be described in terms of space, time, energy, and matter. Students will study a variety of topics that include laws of motion, conservation of energy, momentum, electricity, magnetism, thermodynamics, and characteristics and behavior of waves. Students will apply physics concepts and perform laboratory experimentations for at least 40 percent of instructional time using safe practices.

**TSTEM Engineering Design and Problem Solving (CT1803) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13037300

Prerequisite(s):

Notes:

Students will develop the creative process of solving problems by identifying needs and then devising solutions. The solution may be a product, technique, structure, or process depending on the problem. Science aims to understand the natural world, while engineering seeks to shape this world to meet human needs and wants. Engineering design takes into consideration limiting factors or "design under constraint." Various engineering disciplines address a broad spectrum of design problems using specific concepts from the sciences and mathematics to derive a solution.

**IB Biology I (3325I) 1 credit (state)**

GPA Level 1

Grade Level(s): 11

Service ID: I3010201

Prerequisite(s): Acceptance into the International Baccalaureate Diploma Program

Notes: NCAA approved core course.

IB Biology 1 is an advanced study of the diversity and interdependence found within our living world, from the microscopic level (cells, genetics) to global issues (overpopulation, genetic engineering). Within IB Biology 1, students will develop a secure knowledge of topics including: the cell; genetics; biochemistry; and the interdependence of organisms and their relevance to human body systems. Students will refine their laboratory skills, with at least 40% of instructional time dedicated to field and laboratory investigations. In addition, students will be expected to begin critically thinking about the theories and practices found within the science of Biology, working to build personal understanding of the way ethical responsibility, global cultures, and differing political viewpoints impact the development of biological theory and discovery. Lab notebooks and portfolios, including a group project, are required to fulfill IB requirements.

**IB Biology II (3329I) 1 credit (state)**

GPA Level 1

Grade Level(s): 11

Service ID: I13010201

Prerequisite(s): Acceptance into the International Baccalaureate Diploma Program, completion of IB Biology I

Notes:

IB Biology 2 is a continued study of the diversity and interdependence found within our living world. Within IB Biology 2, students will delve deeply into a sophisticated study of classification, simple life forms, plant and animal biology, human physiology, and ecology/conservation. Students will explore presented concepts through laboratory study, with at least 40% of instructional time dedicated to field and laboratory investigations. Students will continue to consider how ethical responsibility, global cultures, and differing political viewpoints impact the development of biological theory and discovery. Lab notebooks and portfolios, including a group project, are required to fulfill IB requirements.

**IB Chemistry I (3331I) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: I3040002

Prerequisite(s): Acceptance into the International Baccalaureate Diploma Program

Notes: NCAA approved core course.

IB Chemistry is a course for students planning on pursuing the IB Diploma. The course is designed with a depth of understanding and fundamentals and a reasonable competence in dealing with chemical problems which provides for scientific study and creativity within a global context. The course includes: stoichiometry, atomic theory and models, periodicity, bonding, states of matter, solutions, kinetics, equilibrium, acids and bases, oxidation and reduction, organic and environmental chemistry, and fuels and energy. Through discovery, the student will come to appreciate the scientific process and enhance his/her ability to reason. Lab notebooks and portfolios, including a group project, are required to fulfill IB requirements.

**IB Chemistry II (3335I) 1 credit (state)**

GPA Level 1

Grade Level(s): 12

Service ID: I3040003

Prerequisite(s): Acceptance into the International Baccalaureate Diploma Program

Notes:

IB Chemistry HL is the second of a two-year course designed to prepare students for the International Baccalaureate Chemistry Higher Level (HL) exam. The course expands upon Chemistry SL and provides students selected studies in the following topics: Stoichiometry, Atomic Theory, Periodicity, Bonding, States of Matter, Energetics, Kinetics, Equilibrium, Acids and Bases, Oxidation and Reduction, and Organic Chemistry. Students will explore two required Options chosen by the instructor.

**IB Physics I (3343I) 1 credit (state)**

GPA Level 1

Grade Level(s): 12

Service ID: I3050002

Prerequisite(s): Acceptance into the International Baccalaureate Diploma Program

Notes:

IB Physics 1 encompasses many areas of interaction between humankind and the world. Using measurement and mathematical skills, the student will be involved in investigating our physical world to develop understanding of the universe and its principles. Classical studies of Newtonian mechanics, thermodynamics, waves, and electromagnetism will pave the way to the more modern atomic and nuclear theory. Through discovery, the student will come to appreciate the scientific process and enhance his/her ability to reason. Lab notebooks and portfolios, including a group project, are required to fulfill IB requirements.

**IB Physics II (3344I) 1 credit (state)**

GPA Level 1

Grade Level(s): 12

Service ID: I3050003

Prerequisite(s): Acceptance into the International Baccalaureate Diploma Program and completion of IB Physics I

Notes:

IB Physics 2 builds on the concept mastery completed within IB Physics 1. Students will continue to understand and analyze how the physical world operates through a scientific lens. Students will delve deeply into topics such as measurement and uncertainties, mechanics, wave phenomena, electromagnetism, quantum and nuclear physics, and relativity. Through laboratory investigations, students will work to develop a sophisticated understanding of the processes behind the theory. Lab notebooks and portfolios, including a group project, are required to fulfill IB requirements.

Grade Level(s): 12

Service ID: I3020000

Prerequisite(s): Acceptance into the International Baccalaureate Diploma Program

Notes:

The Environmental Systems & Societies course is a transdisciplinary course, which contains various sciences, coupled with a societal viewpoint, all intertwined to help students understand the environment and its sustainability. The purpose of this course is to expose students to the interrelationships of the environment and societies, and the nature of their interactions, so that they can make an informed personal response to a wide range of pressing global issues. The course requires field experiences, which will further extend the interrelationships between the environment and societies.

## SOCIAL STUDIES

### World Geography (4411) 1 credit (state)

GPA Level 2

Grade Level(s): 9-12

Service ID: 03320100

Prerequisite(s):

Notes: NCAA approved core course.

In World Geography, students will examine people, places, and environments on local, regional, national, and international scales. Students will examine the interrelationships that exist between geography, history, and economy, while developing cultural empathy.

### World Geography Advanced (4413) 1 credit (state)

GPA Level 1

Grade Level(s): 9-12

Service ID: 03320100

Prerequisite(s):

Notes: NCAA approved core course.

Students will examine people, places and environments on local, regional, national, and international scales. Students will be guided in independent research investigating environmental resources, current events, and other geographic issues as they prepare for the rigors of advanced placement coursework.

### AP Human Geography (441503) 1 credit (state)

GPA Level 1

Grade Level(s): 9-12

Service ID: A3360100/A3360200

Prerequisite(s):

Notes: NCAA approved core course.

AP Human Geography is a yearlong course that focuses on the distribution, processes, and effects of human populations on the planet. The course provides a systematic study of patterns and processes that have shaped the understanding, use and alteration of Earth's surface. Students learn the role people play in making places, see the geographic context in which major issues occur, learn to think critically about the world and appreciate the complexities of globalization.

### African American Studies (4437) 1 credit (state)

GPA Level 2

Grade Level(s): 10-12

Service ID: 03380085

Prerequisite(s):

Notes:

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.

**Mexican American Studies (4438) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 03380084

Prerequisite(s):

Notes:

In Mexican American Studies students learn about the history and cultural contributions of Mexican Americans. Students will explore history and culture from an interdisciplinary perspective. They will have opportunities to interact with relevant film, literature, art, and other media. The course emphasizes developments in the twentieth and twenty-first centuries, but students will also engage with developments prior to the twentieth century. Students have limited opportunities to examine Mexican American history and culture in depth in currently established TEKS-based courses. This course provides opportunities to explore the complexities of the Mexican American experience. This course also emphasizes research skills, ensuring students are college and career ready upon graduation from high school.

**World History (4421) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03340400

Prerequisite(s):

Notes: NCAA approved core course.

World History provides an overview of the development of civilization in all parts of the globe from prehistoric times to the present. Students will use the process of historical inquiry to research, interpret, and write their analysis of important legal and political concepts.

**AP World History (4436) 1 credit (state)**

GPA Level 1

Grade Level(s): 10-12

Service ID: A3370100

Prerequisite(s):

Notes: NCAA approved core course.

Advanced Placement World History is a course designed to aid students in obtaining advanced collegiate placement in world history. This course focuses on significant events, individuals, developments, and processes from 1200 to the present, and students explore key themes throughout the course in order to make connections among historical developments in different times and places. The student will be expected to read and evaluate college level material in addition to their textbooks, conduct individual research on selected topics, and critically think and write.

**United States History Since Reconstruction (4431) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 03340100

Prerequisite(s):

Notes: This course is assessed with an End of Course exam required for graduation. NCAA approved core course.

This course surveys the significant events, issues, and problems in United States History from 1877 to the present. The course content is based on the founding documents of the U.S. government, which provide a framework for its heritage. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies, and reform movements, including civil rights.

**AP United States History (4434) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: A3340100

Prerequisite(s):

Notes: This course is assessed with an End of Course exam required for graduation. NCAA approved core course.

The United States History Advanced Placement course surveys the events in United States History of the Indigenous peoples to the contemporary world. The United States History Advanced Placement course attempts to prepare the student for the Advanced Placement exam. The student will be expected to read and evaluate a large amount of material and will be expected to conduct independent and guided research.

**Dual United States History (4431D) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 03340100

Prerequisite(s): District recommendations and fulfillment of college admission requirements

Notes: This course is assessed with an End of Course exam required for graduation. NCAA approved core course.

Dual credit U.S. History is a survey of U.S. history from Pre-Contact Societies through Reconstruction. Themes to be developed include westward expansion and globalization, slavery, Native Americans, and religious and social changes. An additional purpose of this course is to introduce students to the skills and practices of history. The second semester of the course surveys U.S. History from 1877 to the present. Topics will include western expansion, industrialization, immigration, imperialism, economic, political and social developments, the wars of the 20th century and the changing status and conditions of women and minorities. Another purpose of this course is to introduce students to the skills and practices of history.

**United States History Dual (OnRamps) (4431DOR) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 03340100

Prerequisite(s): English I and English II

Notes: Credit for HIS 315K (HIST 1301) and HIS 315L (HIST 1302) may be awarded by UT Austin for students who meet grading criteria. Additional fees apply with all OnRamps courses and district scholarships are available.

“American history,” wrote James Baldwin, “is longer, larger, more various, more beautiful, and more terrible than anything anyone has said about it.” In these two sequential first-year college courses, students study significant themes to uncover the range and depth of the American story. Using lectures, primary and secondary readings, videos, maps, and other graphics, students work both independently and collaboratively to develop the critical thinking skills to evaluate the historical record. History 315K surveys America from the colonial beginnings through the Civil War, and History 315L considers the post-Civil War era to the end of the 20th century. Students are assessed in multiple formats. The Research Enhanced Timeline project (RET) challenges students to engage with primary sources and practice archival research in order to make an argument about an episode in US History. Midterm and Final Exams include essay questions that require students to craft well-written narratives and arguments that set events in historical context, engage the complexity of cause and consequence, and make connections that reveal the dynamic of change over time. Students enrolled in OnRamps courses have an opportunity to earn a UT transcribed course grade and credit as long as they meet certain grade criteria.

**United States Government (4441) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 03330100

Prerequisite(s):

Notes: NCAA approved core course.

This course 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.

**Dual Credit United States Government (444130) 1 credit (state)**

GPA Level 1

Grade Level(s): 12

Service ID: 03330100

Prerequisite(s): District recommendations and fulfillment of college admission requirements

Notes: NCAA approved core course.

Dual Credit Government is a survey of national, state, and local government, including such topics as the U.S. and Texas Constitutions; democratic theory; federalism; political culture, political socialization, and public opinion; political participation and electoral behavior; political parties and interest groups; press; and local government. These phenomena are examined at the national, state, and local levels with an emphasis placed on linkages with the formulation of public policy.

**AP Comparative Government and Politics (446403) 1/2 credit (state)**

GPA Level 1

Grade Level(s): 12

Service ID: A3330200

Prerequisite(s):

Notes:

AP Comparative Government and Politics introduces students to the rich diversity of political life outside of the United States. The course uses a comparative approach to examine the political structures; policies; and the political, economic, and social challenges among six selected countries: Great Britain, Mexico, Russia, Iran, China, and Nigeria. Additionally, students examine how different governments solve similar problems by comparing the effectiveness of approaches to many global issues.

**AP United States Government and Politics (4473) 1/2 credit (state)**

GPA Level 1

Grade Level(s): 12

Service ID: A3330100

Prerequisite(s):

Notes:

The Advanced Placement U.S. Government course will attempt to prepare students for the Advanced Placement exam by covering the following topics: Constitutional Underpinnings, Political Beliefs and Behaviors, Political parties, Interest groups and Mass Media, Institutions of National Government, Public Policy, Civil Rights and Civil Liberties. Critically thinking and evaluating college level course materials and primary and secondary sources will enable the student to successfully prepare to take the Advanced Placement exam.

**AP European History (4435) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: A3340200

Prerequisite(s):

Notes: NCAA approved core course.

This elective course will examine the political-diplomatic, social-economic, and intellectual-cultural history of Europe from approximately 1450 to present.

**Sociology (4462) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 03370100

Prerequisite(s):

Notes: NCAA approved core course.

This course examines group relationships, including both the impact of the individual in each of the many groups of which he/she is part and the impact of those groups on the individual. The course combines personal interactions with the scientific study of group relationships.

**Personal Financial Literacy (4458) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 03380082

Prerequisite(s):

Notes:

This course 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.

**Psychology (4461) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 03350100

Prerequisite(s):

Notes: NCAA approved core course.

This course combines the scientific study of human behavior and development with the personal focus on individual behavior.

**Psychology Advanced/AP Introductory Psychology (446103A/446103B) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 03350100

Prerequisite(s):

Notes: NCAA approved core course.

The Advanced Placement Program offers a course and exam in psychology to qualified students who wish to complete studies in secondary school equivalent to an introductory college course in psychology. The exam presumes at least one semester of college-level preparation, as is described in this book. The inclusion of material in the Course Description and in the exam is not intended as an endorsement by the College Board or ETS of the content, ideas, or values expressed in the material. The material has been selected by experienced high school and college and university instructors of psychology who serve as members of the AP Psychology Development Committee. In their judgment, the material printed here reflects the content of a typical introductory college course in psychology.

**IB Psychology SL (4461I) 1 credit (state)**

GPA Level 1

Grade Level(s): 11

Service ID: I3304100

Prerequisite(s):

Notes:

IB Psychology examines the interaction of biological, cognitive and sociocultural influences on human behavior, thereby adopting an integrative approach. Understanding how psychological knowledge is generated, developed and applied enables students to achieve a greater understanding of themselves and appreciate the diversity of human behavior. The ethical concerns raised by the methodology and application of psychological research are key considerations in IB psychology.

**IB Psychology HL (4462I) 1 credit (state)**

GPA Level 1

Grade Level(s): 11

Service ID: I3304200

Prerequisite(s):

Notes:

IB Psychology HL is the second of a two-year course designed to prepare students for the International Baccalaureate Psychology Higher Level (HL) exam. IB psychology examines the interaction of biological, cognitive and sociocultural influences on human behavior, thereby adopting an integrative approach. Understanding how psychological knowledge is generated, developed and applied enables students to achieve a greater understanding of themselves and appreciate the diversity of human behavior. The ethical concerns raised by the methodology and application of psychological research are key considerations in IB psychology.

**Special Topics in Social Studies: History of Sports in the United States (4472) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 3380042

Prerequisite(s):

Notes:

This one-semester elective will allow students to learn about U.S. History through the evolution of a variety of sports starting at the beginning and developing into the major professional leagues. Sports eras of 1860 to 1940, 1940 to 1980, and 1980 to present will be studied.

**Special Topics: Personal Dynamics (4466) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 3380032

Prerequisite(s):

Notes:

In this course, students will be provided opportunities to examine and confront the concepts of self-image, relationships, goals, and attitudes.

**Strategic American History (440500) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 03380042

Prerequisite(s):

Notes:

This course is designed for underprepared US History Students. The goal of the course is to stimulate students to think critically about our US History. The course will develop the skills of students who have not been successful on the US History End of Course exam.

## ECONOMICS

### Economics (4451) 1/2 credit (state)

GPA Level 2

Grade Level(s): 12

Service ID: 3310300

Prerequisite(s):

Notes: NCAA approved core course.

This course 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 will explore personal financial literacy, including budgeting, consumer economics, insurance, investing principles, managing credit, financial planning, retirement savings, consumer loans and mortgages. A part of this course is a simulation in Applied Economics: Entrepreneurship is included.

### AP Economics (4452) 1/2 credit (state)

GPA Level 1

Grade Level(s): 12

Service ID: A3310200

Prerequisite(s):

Notes: NCAA approved core course.

Advanced Placement Economics is designed to offer students an advanced in-depth study of fundamental economic concepts such as scarcity and opportunity costs. Students will explore personal financial literacy, including budgeting, consumer economics, insurance, investing principles, managing credit, financial planning, retirement savings, consumer loans and mortgages. This course is designed to aid students in obtaining advanced collegiate placement in macroeconomics.

### Dual Credit Economics (Virtual) (4451DV) 1/2 credit (state)

GPA Level 1

Grade Level(s): 12

Service ID: 3310300

Prerequisite(s): Fulfillment of college admissions requirements.

Notes: NCAA approved core course.

Dual Credit Economics is a study of macroeconomic principles. Analysis of theories of consumer behavior, production, cost, equilibrium analysis in product markets under different market structures, such as perfect competition, monopoly, monopolistic competition, oligopoly; cartels and conglomerate mergers; antitrust policy, economics of regulation; analysis of different types of factor markets and factor price determination.

## LANGUAGES OTHER THAN ENGLISH

### **French I (5601) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03410100

Prerequisite(s):

Notes: NCAA approved core course.

French I will enable the student to understand and participate in simple conversations in the language. This course will provide the fundamentals of grammar as vocabulary is introduced and present aspects of French culture.

### **French II (5603) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03410200

Prerequisite(s): French I

Notes: NCAA approved core course.

French II is a continuation of French I, emphasizing mastery of basic language patterns with correct pronunciation and intonation. The class will read simple selections for comprehension and write short compositions while continuing to study French culture.

### **French II Advanced (5604) 1 credit (state)**

GPA Level 1

Grade Level(s): 9-12

Service ID: 03410200

Prerequisite(s): French I

Notes: NCAA approved core course.

Students in French II Advanced will master the requirements of the French II curriculum at an accelerated pace and in greater depth. Students will advance their reading and writing skills and increase their cultural awareness and understanding through literary and culture units. Active practice of oral communication will be stressed, and students will complete projects requiring independent and guided research.

### **French III (5605) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 03410300

Prerequisite(s): French II

Notes: NCAA approved core course.

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.

### **French III Advanced (5606)(5606D) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 03410300

Prerequisite(s): French II

Notes: Lone Star College FREN 2311. NCAA approved core course..

Students in French III Advanced will master the TEKS objectives of listening, speaking, reading, writing, culture, and language in great depth and at an accelerated rate. Added reading materials, activities, and conversation stimuli will allow the student to implement fully the grammar and vocabulary learned in the texts. Classroom activities may include teacher lectures and demonstrations, class discussions, guest lectures, small-group interviews and projects, individual study and research, films and tapes, dramatic activities, and demonstrations. Major projects may include planning a trip and writing reports comparing and contrasting French and American cultures. Approximately two to three hours of homework can be expected each week. Dual credit from Lone Star College is available.

**French IV AP Literature/ Dual(5607)(5607D) 1 credit (state)** **GPA Level 1**

Grade Level(s): 11-12 Service ID: A3410100

Prerequisite(s): French III

Notes: Lone Star College FREN 2312. NCAA approved core course.

The French IV AP course is designed to prepare students to take the Advanced Placement exam in French language and to develop the students' abilities to understand spoken French in various contexts; to read newspaper and magazine articles, literary texts, and cultural texts; and to speak and write with reasonable fluency and accuracy in French. Materials include videos, radio broadcast tapes, magazines, newspapers, graded texts, and films in French. Emphasis is placed on the use of language for active communication. Dual credit is available.

**IB French I – AB Initio SL (5601I) 1 credit (state)** **GPA Level 1**

Grade Level(s): 11 Service ID: I13110300

Prerequisite(s): Acceptance into the International Baccalaureate Diploma Program

Notes:

IB French 1 – Ab Initio is the first year of a two-year entry level French course that allows IB students who have no prior instruction in French to master the foundational elements of the language. The novice language learner will receive instruction in the areas of writing, speaking, listening, and reading with the focus on building basic communication fluency. Students enrolled in this class are required to take IB French 2 – Ab Initio and the French Ab Initio Standard Level (SL) exam at the end of the two-year course.

**IB French II – AB Initio SL (5603I) 1 credit (state)** **GPA Level 1**

Grade Level(s): 12 Service ID: 13110300

Prerequisite(s): Acceptance into the International Baccalaureate Diploma Program

Notes:

IB French 2 – Ab Initio is the second year of a two-year entry level French course that allows IB students who have no prior instruction in French to master the foundational elements of the language. The novice language learner will receive instruction in the areas of writing, speaking, listening, and reading with the focus on building basic communication fluency. Students enrolled in this class are required to take the French Ab Initio Standard Level (SL) exam at the end of the two-year course.

**IB French IV (5607I) 1 credit (state)** **GPA Level 1**

Grade Level(s): 11-12 Service ID: I3410400

Prerequisite(s): Acceptance into the International Baccalaureate Diploma Program, completion French I, II, and III

Notes:

IB French 4 is designed as an advanced foreign language study and focuses principally on the interaction between the speakers and writers of the French language. The aim of the course is to prepare students to use the language appropriately in a range of situations and contexts and for a variety of purposes. The course also allows students to develop a deep understanding and awareness of social, cultural, and political influence of French-speaking countries around the world. The skills of listening, speaking, reading, and writing are equally emphasized and are taught and developed through a wide range of authentic oral exercises and written texts. In addition to on-going classroom assessment, students will be expected to complete an IB internal assessment that requires an individual oral commentary exam. The student will be expected to demonstrate balanced listening and speaking skills during an oral interview with the course instructor.

**IB French V (5608I) 1 credit (state)**

GPA Level 1

Grade Level(s): 12

Service ID: I3410500

Prerequisite(s): Acceptance into the International Baccalaureate Diploma Program, completion of IB French IV

Notes:

IB French 5 is designed as an advanced foreign language study and focuses principally on the development of fluency and skill sophistication within the French language. The aim of the course is to provide students with the skills to fluently converse and study (i.e., read and write) within the French-speaking world. The course also allows students to develop a deep understanding and awareness of the social, cultural, and political influence of French-speaking countries within a global context. Students will read, write, and provide oral commentary on a range of current events and literary selections. In addition to on-going classroom assessment, students will be expected to complete an IB internal assessment that requires an individual oral commentary exam. The student will be expected to demonstrate balanced listening and speaking skills during an oral interview with the course instructor.

**German I (5611) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03420100

Prerequisite(s):

Notes: NCAA approved core course.

German I will enable the student to understand and participate in simple conversations in the target language. This class will provide the fundamentals of grammar as vocabulary is introduced and as aspects of German culture are presented.

**German II (5613) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 03420200

Prerequisite(s): German I

Notes: NCAA approved core course.

German II is a continuation of German I, emphasizing mastery of basic language patterns with correct pronunciation and intonation. The class will read simple selections for comprehension and write short compositions while continuing to study German culture.

**German II Advanced (5613) 1 credit (state)**

GPA Level 1

Grade Level(s): 10-12

Service ID: 03420200

Prerequisite(s): German

Notes: NCAA approved core course.

German II Advanced moves at an accelerated pace and covers the requirements in the TEKS outlined for learning a foreign language - listening, reading, speaking, and writing - in depth. Students are expected to master a number of grammatical constructions not normally covered in German II. Extra reading materials, dialogue, and skit activities will allow students to fully implement the grammar and vocabulary learned in the textbook. Special cultural projects will also be assigned.

**German III (5615) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 03420300

Prerequisite(s): German II

Notes: NCAA approved core course.

German III is a continuation of German 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.

**German III Advanced (5616) (5616D)1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 03420300

Prerequisite(s): German II

Notes: NCAA approved core course.

German III Advanced course will require students to master the requirements outlined in the TEKS in great depth and at an accelerated pace. The course will also require extensive use of the language in oral and written activities. German III Advanced will cover culture, vocabulary, literature, grammar, speaking, and listening skills. The class will study subjunctive mood, passive voice, and the genitive case in depth. Emphasis in literature will be placed on 19th and 20th century authors. The curriculum will include lectures, demonstrations, interviews, films, and tapes. Major projects include an oral report on a cartoon or newspaper article, travel brochure on Texas for German travelers, and a skit to be performed at a contest. Dual credit from Lone Star College is available.

**German IV AP Language/Dual (5617) (5617D)1 credit (state)**

GPA Level 1

Grade Level(s): 12

Service ID: A3420100

Prerequisite(s): German III

Notes: NCAA approved core course.

German IV AP will require students to master the requirements outlined in the TEKS in great depth and at an accelerated pace in preparation for the advanced placement exam in German. The course will also require extensive use of the language in oral and written activities. German IV AP will cover culture, vocabulary, literature, grammar, speaking and listening skills. Students will write original poems while studying the literature of the Twentieth Century. The curriculum will include lectures, demonstrations, interviews, films, and tapes. Major projects may include a skit to be performed at competition, original poems, analysis of a contemporary German song, and a research paper on German politics, music, science, or art. Dual credit from Lone Star College is available.

**Latin I (5621) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03430100

Prerequisite(s):

Notes: NCAA approved core course.

In the first year, Latin students learn the basic grammar and vocabulary necessary to read and write simple, adapted Latin. The course includes the influence of the Latin language on our own English language as well as cultural material about Roman life and its influence on later civilizations. A major project will be required in the spring.

**Latin II (5623) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 03430200

Prerequisite(s): Latin I

Notes: NCAA approved core course.

Latin II continues the grammar, vocabulary, and English derivative study begun in Latin I. At the completion of level II, students should be prepared to read and understand Latin written by Roman authors. Study of Roman culture and history continues from Latin I. A major project will be required in the spring.

**Latin II Advanced (5623) 1 credit (state)**

GPA Level 1

Grade Level(s): 10-12

Service ID: 03430200

Prerequisite(s): Latin I

Notes: NCAA approved core course.

Latin II Advanced moves at an accelerated pace in order to cover the grammatical structures and vocabulary of second year Latin. Students also study Roman history and politics, including the invasion of Britain and Alexandria, mythology, and English derivatives. Major projects will be required.

**Latin III Advanced (5626) 1 credit (state)**

GPA Level 1

Grade Level(s): 10-12

Service ID: 03430300

Prerequisite(s): Latin II

Notes: NCAA approved core course.

The primary authors studied in Latin III Advanced will be selected from Julius Caesar, Ovid, Petronius, Martial, Pliny, Livy, Cicero, Horace, Catullus, and Virgil, with an emphasis on Caesar. In addition to studying poetry and prose, the students learn the political and historical climate related to literature. Major projects are due each semester.

**Latin IV AP Vergil (5626) 1 credit (state)**

GPA Level 1

Grade Level(s): 12

Service ID: A3430100

Prerequisite(s): Latin III

Notes: NCAA approved core course.

Fourth year Latin AP students will read selections from Vergil and Julius Caesar. Students will complete an intensive study of complex Latin grammar, vocabulary, and English derivatives. Cultural topics such as Roman history, daily life, and Greco-Roman mythology will be covered as appropriate to the literature. Translation skills, essay writing skills, and vocabulary needed to excel on the AP Latin Vergil exam will be stressed. Major projects will be required throughout the year.

**Cultural and Linguistic Topics (5632) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 03430800

Prerequisite(s):

Notes:

This semester-long class emphasizes vocabulary and linguistic skills as well as culture so as to assist students with the verbal portion of the SAT and PSAT. The students learn a variety of root words and common English terms that are of Latin and Greek origin. Students will also practice SAT and PSAT test taking strategies. Additionally students will study cultural information pertaining to Greece, ancient Rome, Spain, France and Germany.

**Spanish I (5631) (5631V) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03440100

Prerequisite(s):

Notes: NCAA approved core course.

This course is designed to prepare students on the path to take college credit courses through the four Spanish language skills of listening, speaking, reading, and writing. Songs, games, films, and class projects are used to improve Spanish language skills and to introduce the cultures of Spanish speaking countries. This course exposes students to essential pieces of literature. In this class students are expected to conduct research through inquiry projects and the use of media. Intercultural understanding and respect is promoted to foster a sense of globalization as part of life in the 21st century. This class is taught in Spanish with support in English.

**Spanish I and II for Speakers (5641) 2 credits (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 3440110/03440220

Prerequisite(s): Meet the Humble ISD Placement Test criteria/Spanish teacher recommendation.

Notes: NCAA approved core course.

The rigor and pacing of this course is designed to prepare students on the path to take college credit courses. Course work will be done at an accelerated pace, covering two years' work in one year. The students enrolled in this course will receive two high school credits. In this class students will learn advanced concepts of Spanish grammar, vocabulary, and complex conversational skills. Students will practice their written and oral proficiencies and vocabulary building through the use of text readings, conversations, and innovative activities. Students are expected to be able to communicate with a native speaker of Spanish in a grammatically correct manner about non-technical, familiar topics. Culture is integrated through the text, from the introduction of vocabulary, to the photographic contribution of images that represent the entire Spanish-speaking world as part of life in the 21 century. This class is taught in Spanish; no English support is provided. **Course Requirements/ Expectations:** Students will complete independent research/projects, PBL or group projects; access to internet/ computer (can use library during available times). Students who have completed Spanish I are not eligible for this course. At the end of the year, in high school, in the event a student has passed the first semester and not the second, the student may receive credit for Spanish 1. Students who have taken the course at the middle school may be awarded credits the same way: Spanish 1 for the first semester and Spanish 2 for the second.

**Spanish II (5633) (5633V) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03440200

Prerequisite(s): Spanish I

Notes: NCAA approved core course.

This course is designed to prepare students on the path to take college credit courses. In this course, students will learn concepts of Spanish grammar, vocabulary, and increase their conversational skills. In addition, students will practice written and oral proficiencies as well as vocabulary through the use of text readings, conversations, and drills. Students are expected to communicate in a grammatically correct manner about familiar topics. Intercultural understanding and respect is promoted to foster a sense of globalization as part of life in the 21st century. This class is taught in Spanish with support in English.

**Spanish II Advanced (5634) 1 credit (state)**

GPA Level 1

Grade Level(s): 9-12

Service ID: 03440200

Prerequisite(s): Meet the Humble ISD Placement Test criteria

Notes: NCAA approved core course.

This course is designed to prepare students on the path to take college credit courses. In this class, students will practice written and oral proficiencies as well as grammar and building vocabulary through the use of text readings, and conversations in the target language. In this class students are expected to be able to communicate with a Spanish native speaker, in a grammatically correct manner about familiar topics. Culture is integrated through the text, from the introduction of vocabulary to the photographic contribution of images representative of the entire Spanish-speaking world. This class is taught in Spanish with minimal English support.

**Advanced Course Requirements/ Expectations:** Student completes independent research/projects, PBL or group projects; access to internet/ computer (can use library during available times).

**Spanish III (5635)(5635D) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03440300

Prerequisite(s): Spanish II

Notes: Lone Star College SPAN 2311. NCAA approved core course.

The rigor of this course is designed to prepare students on the path to take college credit courses. In this class students will develop a medium high level of proficiency in Spanish, in the areas of listening, speaking, reading and writing. In addition, students will continue to study grammatical concepts and the culture of Spanish speaking countries through innovative activities. Intercultural understanding and respect is promoted to foster a sense of globalization as part of life in the 21st century. This course encourages students to be knowledgeable, caring and compassionate. This class promotes intercultural understanding, open-mindedness and the necessary aptitudes to respect a wide range of viewpoints. This class is taught in Spanish with support in English when needed. Dual Credit enrollment from Lone Star College is available.

**Spanish III Advanced (5636)(5636D) 1 credit (state)**

GPA Level 1

Grade Level(s): 9-12

Service ID: 03440300

Prerequisite(s): Spanish II Advanced *or* Spanish I and II for Spanish Speakers

Notes: Lone Star College SPAN 2311. NCAA approved core course.

The rigor of this course is designed to prepare students on the path to take college credit courses. In this class students will develop advanced levels of proficiency in Spanish, in the areas of listening, speaking, reading and writing through the study and analysis of selected pieces of literature. The students will read and participate in innovative academic activities in the target language while studying advanced grammatical concepts. The course is designed for students to learn and have a critical point of view about the culture and civilization of Spanish speaking countries. Intercultural understanding and respect is highly promoted to foster a sense of globalization as part of life in the 21st century. This course encourages students to be knowledgeable, inquisitive, caring and compassionate. This class promotes intercultural understanding, open-mindedness and the necessary aptitudes to respect a wide range of viewpoints. This class is taught in Spanish, with minimal support in English. Credit enrollment from Lone Star College is available.

**Spanish III and IV for Spanish Speakers H (5642) 2 credit (state)**

GPA Level 1

Grade Level(s): 9-12

Service ID: 03440330/03440440

Prerequisite(s): Spanish II Advanced, Spanish I/II for Spanish Speakers, meet the Humble ISD Placement Test Part A and B criteria/Teacher recommendation.

Notes: NCAA approved core course.

The rigor of this course is designed to prepare students on the path to take college credit courses. Course work will be done at an accelerated pace and include required supplementary readings and analytical compositions. The course will cover two years' work in one year. The students enrolled in this course will receive two high school credits. In this class students will develop higher-levels of proficiency in Spanish in the areas of listening, speaking, reading and writing through the study, and analysis of selected works of literature. In addition, students will read, and participate in innovative academic activities in the target language. They will also study advanced grammatical concepts as well as the culture of Spanish speaking countries. Culture is strongly integrated through the text, from the introduction of vocabulary, to the photographic contribution of images that represent the entire Spanish-speaking world. This class is delivered following research-based methodologies to enable students to understand and apply the Spanish language to reach the goals of the AP Language standards, or other college courses. This class is taught in Spanish with no English support. Upon receiving teacher recommendation, students will have the option of taking the AP Spanish Language and Culture exam. Students who have completed Spanish II are not eligible for this course. At the end of the year, in high school, in the event a student has passed the first semester and not the second, the student may receive credit for Spanish III. Students who have taken the course at the middle school may be awarded credits the same way: Spanish III for the first semester and Spanish IV for the second.

**Course Requirements/ Expectations:** Students are expected to complete independent research/projects, PBL or group projects; access to internet/ computer (can use library during available times).

**Spanish IV/Dual/ AP (5637)(5637D)(563734)(5637V) 1 credit (state)**

GPA Level 1

Grade Level(s): 9-12

Service ID: 03440500

Prerequisite(s): Spanish III, Spanish III Advanced

Notes: Lone Star College SPAN 2312. NCAA approved core course.

The rigor of this class is designed to prepare students to take the AP Spanish Language and Culture assessment or successful completion of the Spanish IV Dual Credit Course. This class expands the students' knowledge of the Spanish language with a carefully tailored blend of Spanish literature, language structure, and authentic conversations. In this course, students will explore in depth, selected reading pieces of Spanish literature. Through the study and analysis of classic and contemporary Hispanic literature, viewing masterpieces of paintings and sculptures, students will learn about the many changing faces that make up the Hispanic culture. This class is taught in Spanish with no English support. Students participating in this course are expected to take the AP Spanish Language and Culture Test.

**Course Requirements/ Expectations:** The student is expected to complete advanced independent research/projects, PBL or group projects; access to internet/ computer (can use library during available times). Dual Credit enrollment from Lone Star College is available.

**Spanish V/Dual (5638D) 1 credit (state)**

GPA Level 1

Grade Level(s): 9-12

Service ID: 03440500

Prerequisite(s): Spanish IV AP or Spanish III and IV for Native Speakers.

Notes: NCAA approved core course.

In this course students will develop advanced proficiency in Spanish in the areas of listening, speaking, reading and writing through the study and analysis of multiple works of literature. In this class, students will read and participate in innovative academic activities in the target language, analyze multiple texts, and the culture of Spanish speaking countries. Culture is strongly integrated through Spanish texts that represent the entire Spanish-speaking world. Intercultural understanding and respect is promoted to foster a sense of globalization as part of life in the 21st century. This course encourages students to be knowledgeable, inquisitive, caring and compassionate. This class promotes intercultural understanding, open-mindedness and the necessary aptitudes to respect a wide range of viewpoints. This class is taught in Spanish with no English support.

**Spanish V AP Literature (5638) 1 credit (state)**

GPA Level 1

Grade Level(s): 9-12

Service ID: A3440200

Prerequisite(s): Spanish IV AP or Spanish III and IV for Native Speakers.

Notes: NCAA approved core course.

The rigor of this course is designed to prepare students to take the AP Spanish Literature test. This class develops the highest proficiency level of the Spanish language through the study and analysis of multiple works of literature. In this class students analyze all readings included in the AP Spanish Literature test and participate in innovative academic activities in the target language. Culture is strongly integrated through the study of architecture, art, poetry and literature representative of the entire Spanish-speaking world. This class is facilitated utilizing research-based methodologies which enable students to understand, analyze and apply the Spanish language to reach the goals of the AP Literature course. This class is taught in Spanish; no English support is provided.

**AP Course Requirements/ Expectations:** Students taking this school year course are expected to complete Spanish readings during the summer, before taking the class. Students are to take the AP Spanish Literature Test at the end of the course. In addition, students are expected to complete independent research/projects, PBL or group projects; access to the internet/ computer (can use the library during available times).

**IB Spanish IV – AB Initio SL (5637I) 1 credit (state)**

GPA Level 1

Grade Level(s): 11

Service ID: I3110300

Prerequisite(s): Acceptance into the International Baccalaureate Diploma Program.

Notes:

IB Spanish IV – Ab Initio is the first year of a two-year novice level Spanish course that allows IB students who have a low proficiency level in Spanish to master the foundational elements of the language. The novice language learner will receive instruction in the areas of writing, speaking, listening and reading, with the focus on building basic communication fluency. Students enrolled in this class are required to take IB Spanish 5 – Ab Initio and the Spanish Ab Initio Standard Level (SL) exam at the end of the two-year course.

**IB Spanish V – AB Initio SL (5638I) 1 credit (state)**

GPA Level 1

Grade Level(s): 12

Service ID: I3110300

Prerequisite(s): Acceptance into the International Baccalaureate Diploma Program.

Notes:

IB Spanish V – Ab Initio is the second year of a two-year entry level Spanish course that allows IB students who have a low proficiency level in Spanish to master the foundational elements of the language. The novice language learner will receive instruction in the areas of writing, speaking, listening and reading, with the focus on building basic communication fluency. Students enrolled in this class are required to take the Spanish Ab Initio Standard Level (SL) exam at the end of the two-year course.

**IB Spanish VI (5637I) 1 credit (state)**

GPA Level 1

Grade Level(s): 9-12

Service ID: I3110300

Prerequisite(s): Acceptance into the International Baccalaureate Diploma Program.

Notes:

IB Spanish VI is designed as an advanced foreign language study and focuses principally on the interaction between the speakers and writers of the Spanish language. The aim of the course is to prepare students to use the language appropriately in a range of situations and contexts and for a variety of purposes. The course also allows students to develop a deep understanding and awareness of social, cultural, and political influence of Spanish-speaking countries around the world. The skills of listening, speaking, reading, and writing are equally emphasized and are taught and developed through a wide range of authentic oral exercises and written texts. In addition to on-going classroom assessment, students will be expected to complete an IB internal assessment that requires an individual oral commentary exam. The student will be expected to demonstrate balanced listening and speaking skills during an oral interview with the course instructor.

**IB Spanish VII (5638I) 1 credit (state)**

GPA Level 1

Grade Level(s): 12

Service ID: I3110300

Prerequisite(s): Acceptance into the International Baccalaureate Diploma Program, completion of IB Spanish VI

Notes:

IB Spanish VII is designed as an advanced foreign language study and focuses principally on the development of fluency and skill sophistication within the Spanish language. The aim of the course is to provide students with the skills to fluently converse and study (i.e., read and write) within the Spanish-speaking world. The course also allows students to develop a deep understanding and awareness of the social, cultural, and political influence of Spanish-speaking countries within a global context. Students will read, write, and provide oral commentary on a range of current events and literary selections. In addition to on-going classroom assessment, students will be expected to complete an IB internal assessment that requires an individual oral commentary exam. The student will be expected to demonstrate balanced listening and speaking skills during an oral interview with the course instructor.

**American Sign Language I (5700) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03980100

Prerequisite(s):

Notes: Limited space available. NCAA approved core course.

American Sign Language I will provide instruction in receptive and expressive signing in one-to-one and group settings. Students will also study aspects of the culture of deaf people. This course will help provide valuable skills desired in the workforce, as well as meet the requirement for a foreign language. This course is articulated for college credit in an Interpreter Training Associate of Applied Science Degree with Lone Star College.

**American Sign Language II (5701) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 03980200

Prerequisite(s): American Sign Language I

Notes: NCAA approved core course.

American Sign Language II is a continuation of American Sign Language I. This course will provide instruction in advanced receptive and expressive sign language skills. Students will also continue to study deaf culture and language. This course will provide valuable skills to work as an interpreter for the deaf, as well as meet the requirement for a foreign language. This course is articulated for college credit in an Interpreter Training Associate of Applied Science Degree with Lone Star College.

**American Sign Language III (5702) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 03980300

Prerequisite(s): American Sign Language II

Notes: NCAA approved core course.

American Sign Language III is a continuation of American Sign Language II. This course will provide additional instruction in advanced receptive and expressive sign language skills. Students will also continue to study deaf culture and language in greater depth. This course will provide valuable skills to work as an interpreter for the deaf, as well as meet the requirement for a foreign language. This course is articulated for college credit in an Interpreter Training Associate of Applied Science Degree with Lone Star College.

**American Sign Language IV (5704) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 03980400

Prerequisite(s): American Sign Language III

Notes:

American Sign Language IV is a continuation of American Sign Language III. This course will provide additional instruction in advanced receptive and expressive sign language skills. Students will also continue to study deaf culture 91 and language in greater depth. This course will provide valuable skills to work as an interpreter for the deaf, teacher of ASL, or teacher of deaf students, as well as meet the requirement for a foreign language.

**Computer Science I (CT1030) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03580200

Prerequisite(s): Algebra I, Recommended: Principles of Information Technology and Algebra I

Notes: Course counts as LOTE credit; there are additional fees associated with this course.

Students acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as it relates to computer programming. Students apply technical skills to address business applications of emerging technologies.

**Computer Science II (CT1032) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 03580300

Prerequisite(s): Algebra I or Computer Science I

Notes: Course counts as LOTE credit.

In this course, students expand their knowledge and skills in structured programming techniques and concepts by addressing more complex problems and developing comprehensive programming solutions. Students analyze the social responsibility of business and industry regarding the significant issues relating to environment, ethics, health, safety, and diversity in society and in the workplace as it relates to computer programming. Students also apply technical skills to address business applications of emerging technologies.

**Computer Science II Dual (OnRamps) (CT1032D) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 03580300

Prerequisite(s): Algebra I, Computer Science I

Notes: Credit for CS 302 may be awarded by UT Austin for students who meet grading criteria. Additional fees apply with all OnRamps courses and district scholarships are available.

In this course students deepened their critical thinking skills and develop their ability to persist through challenges as they explore functional families: Linear, Absolute Value, Quadratic, Polynomial, Radical, Rational, Exponential, and Logarithmic. Students analyze data algebraically and with technology while developing their knowledge of properties of functions, matrices and systems of equations, and complex numbers. Students will experience a high-quality curriculum designed by the faculty at The University of Texas at Austin. The pedagogy of the course, Inquiry-Based Learning, encourages students to take an active role in the construction of their learning. This learning will be accomplished by abstraction, generalization, problem solving, and modeling. Students enrolled in OnRamps courses have an opportunity to earn a UT transcript course grade and credit as long as they meet certain grade criteria. Thriving in Our Digital World teaches computer science principles, a set of core ideas that shapes the landscape of computer science and its impact on our society. In addition to learning about the magic and beauty of computing, students will acquire essential Texas College and Career Readiness skills, applying critical thinking, problem-solving, and communication within a project-based learning framework. Students enrolled in OnRamps courses have an opportunity to earn a UT transcribed course grade and credit as long as they meet certain grade criteria.

**Advanced Placement Computer Science A (CT103403) 1 credit (state)**

GPA Level 1

Grade Level(s): 10-12

Service ID: A3580120

Prerequisite(s): Computer Science I and/or concurrent Algebra II

Notes: Course counts as LOTE credit and Math credit; There are additional fees associated with this course.

Students will learn more advanced problem solving and computer science basics using the Java programming language. This course emphasizes programming methodology, procedural abstraction, and in-depth study of algorithms, data structures, and data abstractions, as well as a detailed examination of a large case study program. Instruction will include preparation for the College Board Advanced Placement Computer Science A examination.

**Advanced Placement Computer Science Principles (CT1036) 1 credit (state)**

GPA Level 1

Grade Level(s): 9-12

Service ID: A3580300

Prerequisite(s): Algebra 1

Notes: Course counts as LOTE credit

AP Computer Science Principles is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems—including the internet—work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical. Instruction will include preparation for the College Board Advanced Placement Computer Science Principles examination.

## FINE ARTS: VISUAL ARTS

### **Art I - General (5705) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03500100

Prerequisite(s):

Notes:

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. The fee for this full-year course is \$50.00.

### **Art II, Digital Art and Media I (570500) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 03501220

Prerequisite(s): Art I

Notes:

This course focuses on students advancing in art, but on a digital platform. Students will learn how to use computer software as an artistic tool to create original drawings and images. They will develop knowledge and skills that will be applicable to real world assignments in visual arts, graphic design, and various creative art careers. Students will use digital equipment as well as traditional art tools to develop critical decisions and conceptual ideas through the process of divergent thinking and problem solving. The fee for this full year course is \$60.

### **Art – Drawing II (5711) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 03500500

Prerequisite(s): Art I

Notes:

This course focuses on advanced design and drawing-related skill development. 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. Media selection by students may require additional supplies not furnished through assessed fees. The fee for this full-year course is \$60.00.

### **Art – Painting II (5712) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 03500600

Prerequisite(s): Art I

Notes:

This course is designed for the serious art student who is interested in developing a portfolio. Students create advanced level drawings using a wide variety of subjects by employing diverse and experimental techniques utilizing wet and dry media. Art history, aesthetics and criticism are included. Media selection by students may require additional supplies not furnished through assessed fees. The fee for this full-year course is \$60.00.

**Art – Sculpture II (5713) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 03501000

Prerequisite(s): Art I

Notes:

Students learn three-dimensional design that includes additive and subtractive processes, assemblages, industrial design, constructions, and installations. The focus is on artwork that embodies plain, mass, and form using assorted materials such as clay, wire, metal, paper, found-objects, wood and other media. Media selection by students may require additional supplies not furnished through assessed fees. The fee for this full-year course is \$60.00.

**Art – Drawing III (5721) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 03501300

Prerequisite(s): Drawing II

Notes:

This course is designed for the serious art student who is interested in developing a portfolio. Students create advanced level drawings using a wide variety of subjects by employing diverse and experimental techniques utilizing wet and dry media. Art history, aesthetics and criticism are included. Media selection by students may require additional supplies not furnished through assessed fees. The fee for this full-year course is \$60.00.

**Art – Painting III (5722) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 03501400

Prerequisite(s): Painting II

Notes:

This course is designed for the serious art student who is working on a portfolio. Students will be motivated to use experimentation and exploration of subject and technique in order to develop his or her individual style. Teacher will work with each student pursuing a particular interest or subject. Students will create polished work by employing diverse and experimental techniques in wet and dry media. Media selection by students may require additional supplies not furnished through assessed fees. The fee for this full-year course is \$60.00.

**Art – Sculpture III (5723) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 03501900

Prerequisite(s): Sculpture II

Notes:

Students use three-dimensional design in additive and subtractive processes. Focus is on developing an individual style. Teacher will work with each student in pursuing a particular interest in media and subjects. Media selection by students may require additional supplies not furnished through assessed fees. The fee for this full-year course is \$60.00.

**Art – Drawing IV (5731) 1 credit (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 03502300

Prerequisite(s): Drawing III

Notes:

This course is designed for the highly advanced art student to explore and create difficult and complex drawing problems. Exploration of the student's creative thought through major portfolio accumulation and evaluation will be the focus of this course. Media selection by students may require additional supplies not furnished through assessed fees. The fee for this full-year course is \$80.00.

**Art – Painting IV (5724) 1 credit (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 03502400

Prerequisite(s): Painting III

Notes:

This course is designed for the highly advanced art student to explore and create difficult and complex artworks utilizing advanced painting techniques. Exploration of the student's creative thought through major portfolio accumulation and evaluation will be the focus of this course. Media selection by students may require additional supplies not furnished through assessed fees. The fee for the full-year course is \$80.00.

**Art – Sculpture IV (5725) 1 credit (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 03502800

Prerequisite(s): Sculpture III

Notes:

This course is designed for the highly advanced art student to explore and create difficult and complex artworks utilizing advanced three-dimensional design techniques. Exploration of the student's creative thought through major portfolio accumulation and evaluation will be the focus of this course. Media selection by students may require additional supplies not furnished through assessed fees. The fee for the full-year course is \$80.00.

**Art – Drawing – Advanced Placement (5733) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: A3500300

Prerequisite(s): Drawing II, Painting II and with Art Teacher's Approval

Notes:

Art - Drawing Advanced Placement is a college-level course requiring students to produce a portfolio of 14 to 20 original drawings including painting and drawing experiments that demonstrate advanced techniques using a variety of styles. Students must also produce up to 16 additional artworks that concentrate on an underlying theme or personal style. This course is fast-paced and rigorous that culminates with the presentation and evaluation of the student's portfolio for college credit consideration. Media selection by students may require additional supplies not furnished through assessed fees. The fee for this full-year course is \$85.00.

**Art – Two Dimensional Design Portfolio – Advanced Placement (5734) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: A3500400

Prerequisite(s): Drawing II &amp; Art Teacher's Approval, or Painting III &amp; Art Teacher's Approval

Notes:

This college-level course requires students to produce a portfolio of numerous original works of art intended to address a very broad interpretation of two-dimensional design issues. This type of design involves purposeful decision-making about how to use the elements and principles of art in an integrative way. Students will demonstrate proficiency in two-dimensional design using a variety of art forms. These could include, but are not limited to, graphic design typography, digital imaging, photography, collage, fabric design, weaving, illustration, painting, and printmaking. A variety of approaches to representation, abstraction, and expression may be part of the student's portfolio. The fee for this full-year course is \$85.00.

**Art – Three Dimensional Design Portfolio – Advanced Placement (5735) 1 credit (state)** **GPA Level 1**

Grade Level(s): 11-12

Service ID: A3500500

Prerequisite(s): Sculpture II and Art Teachers Approval

Notes:

This college-level course requires students to produce a portfolio of numerous original works of art intended to address a very broad interpretation of sculptural issues in depth and space. This type of design involves purposeful decision making about how to use the elements and principles of art in an integrative way. These may include mass, volume, form, plane, light, and texture. Such elements and concepts can be articulated through additive, subtractive, and/or fabrication processes. A variety of approaches to representation, abstraction, and expression may be part of the student's portfolio. These might include, among others, traditional sculpture, architectural models, apparel, ceramics, fiber arts, or metalwork. The fee for this full-year course is \$85.00.

**Floral Design (CT120) 1 credit (state)** **GPA Level 2**

Grade Level(s): 10-12

Service ID: 13001800

Prerequisite(s):

Notes: There are additional fees associated with this course. This course counts towards a Fine Arts Credit.

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.

**IB Art I (5721I) 1 credit (state)** **GPA Level 1**

Grade Level(s): 11-12

Service ID: I3600200

Prerequisite(s): Acceptance into the International Baccalaureate Diploma Program.

Notes:

IB Art I is designed for students who may pursue the visual arts at a college or university and is the first year of a two-year IB Art program. The course provides the visual arts student with an opportunity to engage and develop artistic talents through the exploration and investigation of various aspects found within the visual arts world. Students will be given quality time to explore a variety of topics of interest while confidently developing their artistic skills beyond their normal range of expertise. At the end of the course, students will have the opportunity to exhibit their work and share their investigation workbooks with an art examiner. The fee for this course is \$90.00.

**IB Art II (5731I) 1 credit (state)** **GPA Level 1**

Grade Level(s): 12

Service ID: I3600100

Prerequisite(s): IB Art 1

Notes:

IB Art II is a continuation of IB Art 1 and the final year of the IB Art program. This course is designed for students who may pursue the visual arts at a college or university. At the end of the course, students will have the opportunity to exhibit their work and share personal portfolios with an art examiner. The fee for this course is \$90.00. Students who take this course will strive to earn recognition through the examination of exhibited work, an interview with an art examiner, and a record booklet that documents individual progress and growth. Students will also be expected to maintain an investigation workbook through the duration of the course.

## FINE ARTS: DANCE

### Dance I (5741, 5745) 1 credit (state)

GPA Level 2

Grade Level(s): 9-12

Service ID: 3830100

Prerequisite(s):

Notes: Fees and/or supplies may be required for this course. Please contact the campus instructor for details.

Dance I is a performance-based/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, perform memorized movement sequences with rhythmical accuracy in several dance styles, including classical ballet, tap, 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 (5742, 5746) 1 credit (state)

GPA Level 2

Grade Level(s): 10-12

Service ID: 3830200

Prerequisite(s): Dance I

Notes: Fees and/or supplies may be required for this course. Please contact the campus instructor for details.

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. Dance II students apply intermediate-level dance applications to dance performance. 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 forms and apply dance-related skills such as creative problem solving, cooperation, and self-discipline to various life experiences.

### Dance III (5743, 5747) 1 credit (state)

GPA Level 2

Grade Level(s): 11-12

Service ID: 3830300

Prerequisite(s): Dance II

Notes: Fees and/or supplies may be required for this course. Please contact the campus instructor for details.

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-complex movement sequences with rhythmic accuracy, projection, confidence, and expression. Students will analyze dance from a variety of perspectives such as those of dance critic, performer, choreographer, and audience member.

### Dance IV (5744, 5748) 1 credit (state)

GPA Level 2

Grade Level(s): 12

Service ID: 3830400

Prerequisite(s): Dance III

Notes: Fees and/or supplies may be required for this course. Please contact the campus instructor for details.

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 for Athletes 1- 4 (57501, 57502, 57503, 57504) 1 credit (state)** **GPA Level 2**

Grade Level(s): 9-12 Service ID: 3834100, 03834200, 03834300, 03834400

Prerequisite(s): Fees and/or supplies may be required for this course. Please contact the campus instructor for details.

Notes: This course can count as a Fine Arts credit and a P.E. credit.

Dance for Athletes is a course designed to focus on the exercises and stretching techniques to improve performance in your particular sport, as well as prevent injuries from occurring. In this course, you will learn these stretching techniques, as well as, exploring different genres of dance, each focusing on targeting muscle groups that will increase strength and flexibility. This course will benefit you physically, and mentally. You will not only learn about how dance benefits your body, but also improve concentration and focus, and increase intellectual stimulation.

**Dance Composition/Improvisation (57491) 1 credit (state)** **GPA Level 2**

Grade Level(s): 10-12 Service ID: 03832500

Prerequisite(s): Dance I

Notes: Fees and/or supplies may be required for this course. Please contact the campus instructor for details.

Students will explore the creation of unique movement and movement sequences by guided improvisation and lessons in basic choreographic/composition exercises. Students will create solo and group choreography highlighting and performing their unique works personally and on groups of dance students. Students will learn to edit music using technology, create various formations and patterns, and use video technology and production throughout the process.

**IB Dance SL (57431) 1 credit (state)** **GPA Level 1**

Grade Level(s): 11-12 Service ID: 1380200

Prerequisite(s):

Notes: Fees and/or supplies may be required for this course. Please contact the campus instructor for details.

Consistent with the educational philosophy of the IB, the Diploma Programme dance curriculum aims for a holistic approach to dance and embraces a variety of dance traditions and dance cultures—past, present and looking towards the future. Performance, creative and analytical skills are mutually developed and valued whether the students are writing papers or creating/performing dances. The curriculum provides students with a liberal arts orientation to dance. This orientation facilitates the development of students who may become choreographers, dance scholars, performers or those, more broadly, who seek life enrichment through dance.

**IB Dance HL (57441) 1 credit (state)** **GPA Level 1**

Grade Level(s): 12 Service ID: 1380200

Prerequisite(s):

Notes: Fees and/or supplies may be required for this course. Please contact the campus instructor for details.

IB Dance HL is the second of a two-year course designed to prepare students for the International Baccalaureate Dance Higher Level (HL) exam. Consistent with the educational philosophy of the IB, the Diploma Programme dance curriculum aims for a holistic approach to dance and embraces a variety of dance traditions and dance cultures—past, present and looking towards the future. Performance, creative and analytical skills are mutually developed and valued whether the students are writing papers or creating/performing dances. The curriculum provides students with a liberal arts orientation to dance. This orientation facilitates the development of students who may become choreographers, dance scholars, performers, or those, more broadly, who seek life enrichment through dance. While prior dance experience is not mandatory at SL, it is recommended. At HL it is very strongly recommended.

## FINE ARTS: BAND

**Band I, II, III, IV (5751, 5752, 5753, 5754) 1 credit (state)** **GPA Level 2**

Grade Level(s): 9-12

Service ID: 03150100, 03150200, 03150300, 03150400

Prerequisite(s): Placement audition with band teacher, students who have not auditioned must have teacher enrollment approval.

**Notes:**

Placement in one of several performing ensembles is determined through an audition process that includes a student's technical proficiency as well as demonstrated leadership skills, reliability, and personal commitment to ensemble requirements, ensemble instrumentation limitations, eligibility information, and is not necessarily related to the number of years in Band. All ensembles perform at various concerts, community events, competitions, and select festivals that require frequent rehearsals and performances after school hours. Selected wind and percussion students enrolled in band are combined with varsity and junior varsity string orchestra students to form the full symphony orchestra that rehearses and performs after school hours. Attendance is required at all after-school rehearsals and performances as a part of the graded curricula. 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 unit for the physical education graduation requirement with the remaining Band units applying toward Fine Arts and/or elective graduation requirements.

Students who play flute, clarinet, alto saxophone, trumpet/cornet, or tenor trombone will provide their own instruments. The larger/more expensive instruments may be provided by the District on a limited basis. Additional costs for this course include the purchase of some uniform accessories, instrument cleaning, maintenance and supply expenses, uniform cleaning expenses, as well as possible expenses relating to loss and/or damage of school owned equipment. Specific costs may be obtained from the band director at your school.

**Applied Music I, II – Band (5759, 5760) 1 credit (state)** **GPA Level 2**

Grade Level(s): 11-12

Service ID: 3152500, 3152600

Prerequisite(s): Concurrent enrollment in band and with band teacher approval.

**Notes:**

Applied Music-Band is a high-level competition/performance-based course that is available to all students concurrently enrolled in Band who wish to pursue an advanced level of independent study in music performance.

**Band Ensemble 1-4 (5755-5758)** **GPA Level 2**

Grade Level(s): 9-12

Service ID: 03151300, 03151400, 03151500, 03151600

Prerequisite: Concurrent enrollment in band and band teacher approval

**Notes:**

**Mariachi I, II, III, IV – Music (57811,57812,57813,57814) 1 credit (state)** **GPA Level 2**

Grade Level(s): 9-12

Service ID: 03153800, 03153900, 03154000, 03154100

Prerequisite(s):

Notes: Limited Seating Course: See counselor for details. Located at Humble HS.

This is a beginner level course for students to learn guitar leading to mariachi and vocals. During the course of study some students will then learn vihuela or guitarron.

## FINE ARTS: ORCHESTRA

**Orchestra I, II, III, IV (5771, 5772, 5773, 5774) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03150500, 03150600, 03150700, 03150800

Prerequisite(s):

Notes: Placement audition with orchestra teacher, students who have not auditioned must have orchestra teacher enrollment approval.

Placement in one of several performing ensembles is determined through an audition process that includes a student's technical proficiency as well as demonstrated leadership skills, reliability, and personal commitment to ensemble requirements, ensemble instrumentation limitations, eligibility information, and is not necessarily related to the number of years in Orchestra.

Students selected for membership in the varsity and junior varsity string ensembles are combined with selected wind and percussion band students to form the full symphony orchestra that rehearses and performs after school hours. All ensembles perform at various concerts, community events, competitions, and select festivals that require frequent rehearsals and performances after school hours. Attendance is required at all after-school rehearsals and performances as a part of the graded curricula.

Violins, violas, and cellos for home use are provided by the students. Larger, more expensive instruments (double bass for home and school use and cellos for school use) are provided by the District on a limited basis. Additional costs for this course include the purchase of uniform accessories, instrument cleaning, maintenance, and supply expenses, uniform cleaning expenses, as well as possible expenses relating to loss or damage of school owned equipment. Specific costs may be obtained from the orchestra director at your school.

**Applied Music I, II - Orchestra (5779, 5780) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 3152500

Prerequisite(s): Concurrent enrollment in orchestra and with orchestra teacher approval.

Notes:

Applied Music - Orchestra is a high-level competition/performance based course that is available to all students concurrently enrolled in Orchestra who wish to pursue an advanced level of independent study in music performance.

## FINE ARTS: CHORAL MUSIC

### **Choir I, II, III, IV (5761, 5762, 5763, 5764) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03150900, 03151000, 03151100, 03151200

Prerequisite(s): Placement recommendation by the choir teacher.

Notes:

Placement in one of several performing ensembles is determined through an audition process that includes a student's technical and vocal proficiency as well as demonstrated leadership skills, reliability, and personal commitment to ensemble requirements, eligibility information, and ensemble membership limitations and is not necessarily related to number of years in Choir. Students choosing Vocal Ensemble courses must be concurrently enrolled in an advanced level choral ensemble with performance expectations being a continuation of and aligned with the expectations in Choir I-IV.

All ensembles perform at various concerts, community events, competitions, and select festivals that require frequent after school rehearsals and performances. Attendance is required at all after-school rehearsals and performances as a part of the graded curricula.

Additional costs for this course include the purchase of uniform accessories, uniform cleaning expenses, and limited supplies as well as possible expenses relating to loss or damage of school owned equipment. Specific costs may be obtained from the choir director at your school.

### **Applied Music I, II - Choir (5782, 5784) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 3152500

Prerequisite(s): Concurrent enrollment in choir and choir teacher approval

Notes:

Applied Music – Choir is a high level competition/performance based course that is available to all students concurrently enrolled in choir who wish to pursue an advanced level of independent study in music performance.

### **Vocal Ensemble I-IV (5765, 5766, 5767, 5768)**

GPA Level 2

Grade Level(s): 9 - 12

Service ID: 03152100, 03152200, 03152300, 03152400

Prerequisite: Concurrent enrollment in choir and choral teacher approval

Notes:

Placement in the vocal ensemble course is determined through an audition process that includes a student's technical proficiency as well as demonstrated leadership skills, reliability, and personal commitment to ensemble requirements, eligibility information, and ensemble membership limitations, and is not necessarily related to the number of years in Choir. Students choosing Vocal Ensemble courses must be concurrently enrolled in an advanced level choral ensemble with performance expectations being a continuation of and aligned with the expectations of Choir I-IV.

All ensembles perform at various concerts, community events, competitions, and select festivals that require frequent after school rehearsals and performances. Attendance is required at all after school rehearsals and performances as part of the graded curricula.

Additional costs for this course include the purchase of uniform accessories, uniform cleaning expenses, and limited supplies as well as possible expenses relating to loss or damage of school owned equipment. Specific costs may be obtained from the choir director at your school.

**Specialty Choir I-IV (5761, 5762, 5763, 5764)**

GPA Level 2

Grade Level(s): 9 - 12

Service ID: 03150900, 03151000, 03151100, 03151200

Prerequisite: Concurrent enrollment in choir and choral teacher approval

Notes:

[Need Course Description](#)

## FINE ARTS: MUSIC THEORY

### **Music Theory Advanced (577802) 1 credit (state)** GPA Level 1

Grade Level(s): 9-12 Service ID: 3152700

Prerequisite(s): Students must be able to read and write musical notation, and have basic performance skills in voice or on an instrument and have theory. Teacher approval is required.

Notes:

Music Theory Advanced/PreIB is the study and application of the foundational pieces of Music Theory.

### **Music Theory Advanced Placement (5783) 1 credit (state)** GPA Level 1

Grade Level(s): 11-12 Service ID: A3150200

Prerequisite(s): Students must be able to read and write musical notation, and have basic performance skills in voice or an instrument and have theory teacher approval.

Notes:

This college level course emphasizes advanced study of musical structure, form, analysis, part-writing, and advanced terminology. Performance expectations in Music Theory require students to have an advanced level of instrumental and/or vocal proficiency obtained either through four or more continuous years of study in Middle and High School music programs or their equivalent. Students receive one (1) additional unit in music as an elective choice toward state graduation requirements. This college level course is fast-paced and rigorous which is designed to prepare students to take the Music Theory Advanced Placement test for college credit. This course is highly individualized and modular in concept, approach, and direction.

### **IB Music Theory I (57821) 1 credit (state)** GPA Level 1

Grade Level(s): 11-12 Service ID: I3250300

Prerequisite(s): Enrolled in Varsity Band, Choir, or Orchestra and accepted into the International Baccalaureate Diploma Program

Notes:

This course, taken in addition to Band, Choir, or Orchestra, will focus on Music Theory, Western Music History, World Music, Musical Forms and Musical Analysis. The student will acquire the knowledge necessary for a better understanding of their own musical heritage through the study of Western music history. With that understanding, students gain the ability to appreciate other cultures through their music. This course, in conjunction with IB Music Theory I, Band, Choir, or Orchestra, will fulfill the Music HL requirements set forth by the IB.

### **IB Music Theory II (57832) 1 credit (state)** GPA Level 1

Grade Level(s): 12 Service ID: I3250300

Prerequisite(s): Enrolled in Varsity Band, Choir, or Orchestra and accepted into the International Baccalaureate Diploma Program

Notes:

This course, taken in addition to Band, Choir, or Orchestra, is a continuation (year two) of IB Music Theory II. This course, in conjunction with IB Music Theory I, Band, Choir, or Orchestra, will fulfill the Music HL Requirements set forth by the IB.

## FINE ARTS: THEATRE ARTS

### **Theatre Arts I (5786) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 3250100

Prerequisite(s):

Notes:

Theater Arts I 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 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 make-up. Basic craftsmanship skills will be taught with students mastering the use of various state 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.

### **Technical Theatre I (5791) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 3250500

Prerequisite(s):

Notes:

Technical Theatre I is designed for students who are interested in the technical theatre production concepts and skills. This course will teach students craftsmanship skills such as carpentry, electrical design and setup, painting, research, and various design techniques for each of the technical elements. The course promotes attendance at live theatrical events and sophisticated analysis and evaluation of theatrical experiences. Students will be involved in classroom instruction and laboratory-type settings.

### **Costume Tech Theatre I (579100) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 3250500

Prerequisite(s):

Notes:

Costuming Tech Theatre will focus on the Costuming and Wardrobe side of Theatre. Students will participate in the construction and management of costuming for Theatrical Production.

### **Musical Theatre (57991) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 3251900

Prerequisite(s): Teacher approval required

Notes:

The purpose of this course is to provide opportunities to study and perform the varied styles of musical theatre with special attention to the principles of stage movement, acting, characterization and all other aspects of a musical production.

**Theatre Arts II (5787) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 3250200

Prerequisite(s): Theatre Arts I

Notes:

Theatre Arts II develops the skills and concepts introduced in Theatre Arts I. Students will learn advanced acting skills including: Techniques of acting, advanced characterization, exploration of classical contemporary production styles, children's theatre, traveling productions and research and script analysis. Modern theatre history will also be implemented. The students will be expected to perform in various productions or scene work that requires memorization.

**Technical Theatre II (5792) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 3250600

Prerequisite(s): Theatre Arts I or Technical Theatre I and with teacher approval

Notes:

Technical Theatre II is designed for students who are interested in the technical theatre production concepts and skills. This course will expand the student's craftsmanship skills taught in Technical Theatre I such as: carpentry, electrical design and setup, painting, research, and various design techniques for each of the technical elements. Each element will have several projects on various levels of difficulty along with written tests to determine the knowledge level of these skills. Students will also be required to be involved in each of the main stage productions. The course promotes attendance at live theatrical events and sophisticated analysis and evaluation of theatrical experiences. Students will master the operation of power tools and painting techniques for main stage productions. Students will be involved in classroom instruction and laboratory-type settings.

**Theatre Arts III (5788) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 3250300

Prerequisite(s): Theatre Arts II

Notes:

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. Lessons will include individual research and group study; group discussion and intense scene work that requires lengthy memorization. Students will audition for main stage shows and may participate in all aspects of the Thespian Society. Careers in theatre and/or film will be explored and researched. Students will be expected to attend several mainstage theatre productions after school hours. Attendance is required at all after school rehearsals and performances as a part of the graded curricula.

**Technical Theatre III (5793) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 3251100

Prerequisite(s): Technical Theatre II and with teacher approval

Notes:

Technical Theatre III is an advanced level course designed for the highly motivated/serious theatre student by further refining and developing the concepts taught in Technical Theatre II. The major focus of this class is on independent study, research, and design in all technical aspects of the theatre. Students will be expected to perform the duties of "crew heads" and/or designers for the sets used in the main stage productions. Recognition of career opportunities in theatre as well as the accumulation and evaluation of portfolio project work will be required.

**Theatre Arts IV (5789) 1 credit (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 3250400

Prerequisite(s): Theatre Arts III

Notes:

Theatre Arts IV is a highly advanced level/performance-based course designed for highly motivated/serious career minded individuals in theatre. Students will be involved in acting and directing, script analysis, play analysis, and focused research. Students will audition for the main stage shows and be active members of the Thespian Society. College theatre audition and scholarship preparation will be emphasized. Students will be expected to attend several mainstage theatre productions after school hours. Attendance is required at all after-school rehearsals and performances as a part of the graded curricula.

**Technical Theatre IV (5794) 1 credit (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 3251200

Prerequisite(s): Technical Theatre III and with theatre approval

Notes:

Technical Theatre IV is a highly advanced level course designed for the highly motivated/career minded serious theatre student by further refining and developing the concepts taught in the Technical Theatre III course. Special emphasis is placed on design and "director" concepts through portfolio accumulation in preparation for scholarship application to university theatre departments. This highly advanced course expects students to design all aspects of a main stage production and complete implementation of the design process.

**IB Film SL (5784I) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: I3830300

Prerequisite(s):

Notes:

The IB Film course aims to develop students as proficient interpreters and makers of film texts. Through the study and analysis of film texts, and practical exercises in film production, students develop critical abilities and appreciation of artistic, cultural, historical and global perspectives in film. Students will examine concepts, theories, practices and ideas from multiple perspectives, challenging their own views to understand and value those of others. Students are challenged to acquire and develop critical thinking, reflective analysis and imaginative synthesis through practical engagement in the art, craft, and study of film.

**IB Film HL (5785I) 1 credit (state)**

GPA Level 1

Grade Level(s): 12

Service ID: N1290321

Prerequisite(s):

Notes:

IB Film HL is the second of a two-year course designed to prepare students for the International Baccalaureate Film Higher Level (HL) exam. The IB Film course aims to develop students as proficient interpreters and makers of film texts. Through the study and analysis of film texts, and practical exercises in film production, students develop critical abilities and appreciation of artistic, cultural, historical and global perspectives in film. Students will examine concepts, theories, practices and ideas from multiple perspectives, challenging their own views to understand and value those of others. Students are challenged to acquire and develop critical thinking, reflective analysis and imaginative synthesis through practical engagement in the art, craft, and study of film. HL students have an additional component in which they choose their production role and collaboratively produce a short film of 7-10 minutes.

**IB Theatre Arts SL (5788I) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: I3750200

Prerequisite(s):

Notes:

The theatre course emphasizes the importance of working individually and as a member of an ensemble. Students are encouraged to develop the organizational and technical skills needed to express themselves creatively in theatre. A further challenge for students following this course is for them to become aware of their own perspectives and biases and to learn to respect those of others. This requires a willingness to understand alternative views, to respect and appreciate cultural diversity, and to see the varied role that theatre plays in reflecting these. As a result, the theatre course can become a way for students to celebrate the international and intercultural dynamic that inspires and sustains some forms of contemporary theatre, while appreciating the specific local origins that have always given rise to performance, and which, in many parts of the world, still do. At the core of the theatre course lies a concern with clarity of understanding, critical thinking, reflective analysis, effective involvement and imaginative synthesis—all of which should be achieved through practical engagement in theatre.

**IB Theatre Arts HL (5789I) 1 credit (state)**

GPA Level 1

Grade Level(s): 12

Service ID: I3750300

Prerequisite(s):

Notes:

IB Theatre Arts HL is the second of a two-year course designed to prepare students for the International Baccalaureate Theatre Arts Higher Level (HL) exam. The theatre course emphasizes the importance of working individually and as a member of an ensemble. Students are encouraged to develop the organizational and technical skills needed to express themselves creatively in theatre. A further challenge for students following this course is for them to become aware of their own perspectives and biases and to learn to respect those of others. This requires a willingness to understand alternative views, to respect and appreciate cultural diversity, and to see the varied role that theatre plays in reflecting these. As a result, the theatre course can become a way for students to celebrate the international and intercultural dynamic that inspires and sustains some forms of contemporary theatre, while 105 appreciating the specifically local origins that have always given rise to performance, and which, in many parts of the world, still do. At the core of the theatre course lies a concern with clarity of understanding, critical thinking, reflective analysis, effective involvement and imaginative synthesis—all of which should be achieved through practical engagement in theatre.

**Theatre Production I (5759) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03250700

Prerequisite(s): Teacher approval required.

Notes:

Introduces students to the basic concepts of acting technique, history of theatre, introduction to Technical Theatre, voice, diction, and articulation for the stage. Also covers basic costuming, make-up, careers in Theatre, and audience etiquette.

**Theatre Production II (5758) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03250800

Prerequisite(s): Teacher approval required.

Notes:

Continues theatrical studies including molding individual creativity into cooperative group efforts. Provides for the development of playwriting, acting, and technical production skills such as auditioning, rehearsal, and performance techniques. Explores theatrical genres throughout history.

**Theatre Production III (5797) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03250900

Prerequisite(s): Teacher approval required.

Notes:

Advanced theatrical studies including the advanced development of playwriting, acting, and production skills such as auditioning, rehearsal, make-up, costuming and performance techniques.

**Theatre Production IV (5798) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03251000

Prerequisite(s): Teacher approval required.

Notes:

Advanced theatrical studies including the advanced development of playwriting, acting, and production skills such as auditioning, rehearsal, make-up, costuming and performance techniques.

## SPEECH

### **Communication Applications (1170) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03241400

Prerequisite(s):

Notes:

Communication Applications allows students to explore basic fundamental aspects of all forms of verbal and nonverbal communication. Students will be expected to identify, analyze, develop, and evaluate basic communication skills needed for professional and social success in interpersonal situations, group interactions, personal and professional presentations, and interviewing preparation.

### **Teen Leadership (1165) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 9-11

Service ID: N1290012

Prerequisite(s):

Notes: KPHS and SCHS only.

Teen Leadership is a leadership development curriculum designed to provide young people with essential life skills. A safe environment is created in which a basic socialization system is developed and growth in public speaking is nurtured. Principles of self-respect, perseverance, honesty, respect of others, integrity, loyalty, and responsibility are included in this course. The student will be awarded 0.5 speech credit (if the teacher is appropriately certified) in addition to the 0.5 elective credit.

### **Debate I (1177) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03240600

Prerequisite(s):

Notes: NCAA approved core course.

Debate I is an entry level performance-based course that allows students to explore the fundamental aspects of debate. Students will learn basic debate skills in logical and critical thinking, research, construction, and presentation. As part of the graded curriculum, students must prepare for, attend, and compete in at least one competition tournament per semester that will require additional rehearsal time after school hours. Communication applications credit *may be* embedded into Debate I for 0.5 high school credit contingent upon the teacher availability and course enrollment for the full year.

### **Debate II (1178) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 03240700

Prerequisite(s): Debate I

Notes: NCAA approved core course.

Debate II is an Intermediate level performance-based course for the serious debate student who has demonstrated the knowledge and skills learned in Debate I. Students will learn more advanced debate skills in logical and critical thinking, research, construction, and presentation in "Cross Examination" and "Lincoln Douglas" debate. Students will actively "peer critique" two debate rounds. As part of the graded curriculum, students must prepare for, attend, and compete in at least two competition tournaments per semester that will require additional rehearsal time after school hours.

**Debate III (1179) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 03240800

Prerequisite(s): Debate II

Notes: NCAA approved core course.

Debate III is an advanced level competition/performance-based course for the serious/highly motivated debate student who has demonstrated the knowledge and skills learned in Debate II. Students will learn highly advanced debate skills in logical and critical thinking, research, construction, and presentation in "Cross Examination" and "Lincoln Douglas" debate. As part of the graded curriculum, students must prepare for, attend, and compete in at least three competition tournaments per semester that will require additional rehearsal time after school hours.

**Debate IV (1187) 1 credit (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 03241200

Prerequisite(s): Debate III

Notes: NCAA approved core course.

Debate IV is a highly advanced level competition/performance-based course for the serious/highly motivated debate student who has demonstrated highly advanced knowledge and skills learned in Debate III. Students will learn highly advanced debate skills in logical and critical thinking, research, construction, and presentation in "Cross Examination" and "Lincoln Douglas" debate. As part of the graded curriculum, students must prepare for, attend, and compete in at least four competition tournaments per semester that will require additional rehearsal time.

## HEALTH EDUCATION

### **Health I (5581) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Prerequisite(s):

Notes:

Students will gain an understanding of health information and skills through six strands: physical health and hygiene; mental health and wellness; healthy eating physical activity; injury and violence prevention and safety; alcohol, tobacco, and other drugs; and reproductive and sexual health.

### **Health II (5582) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Prerequisite(s): Health I

Notes:

Students will gain an understanding of health information and skills through six strands: physical health and hygiene; mental health and wellness; healthy eating physical activity; injury and violence prevention and safety; alcohol, tobacco, and other drugs; and reproductive and sexual health. There will be an emphasis on ways to evaluate long-term or lifetime effects of engaging in risky behaviors as defined by the CDC during adolescence.

## PHYSICAL EDUCATION

### **Lifetime Fitness and Wellness Pursuits (5510) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Prerequisite(s):

Notes:

The Lifetime Fitness and Wellness Pursuits course offers current approaches for the foundation of personal fitness, physical literacy, lifetime wellness, and health living. Students in Lifetime Fitness and Wellness Pursuits will apply the knowledge and skills to demonstrate mastery of the concepts needed to achieve lifetime wellness. Students will participate in a variety of physical activities for attaining personal fitness and lifetime wellness through designing and implementing a personal fitness program that includes health-related fitness components.

### **Lifetime Recreation and Outdoor Pursuits (5511) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Prerequisite(s):

Notes:

The Lifetime Recreation and Outdoor Pursuits course provides opportunities for students to develop competency in five or more lifelong recreational and outdoor pursuits for enjoyment and challenge. Students in Lifetime Recreation and Outdoor Pursuits participate in activities that promote physical literacy, respect for and connection to nature and the environment, and opportunities for enjoyment for a lifetime. Students will experience opportunities that enhance self-worth and support community engagement.

### **Skill-Based Lifetime Activities (5512) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Prerequisite(s):

Notes:

The Skill-Based Lifetime Activities course offers students the opportunity to demonstrate mastery in basic sport skills, basic sport knowledge, and health and fitness principles. Students experience opportunities that promote physical literacy and lifetime wellness. Students in Skill-Based Lifetime Activities participate in a minimum of one lifelong activity from each of the following five categories during the course:

- Target games
- Striking and fielding games
- Fitness activities
- Rhythmic activities
- Innovative games and activities with international significance

### **Aerobics Activities (5509) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: PES00054

Prerequisite(s):

Notes:

In this elective course, students 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.

**Yoga (5504) ½-1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: PES00052

Prerequisite(s):

Notes:

In this course students are introduced to a variety of fundamental yoga poses, breathing exercises, and relaxation techniques to improve their overall physical, emotional, mental, and social well-being. Through the physical aspects of yoga, students will learn a variety of yoga postures with an emphasis on proper posture, body alignment, and function. They will learn how to increase focus and concentration while reducing stress through various breathing exercises and relaxation techniques.

**Integrated Athletics I, II, III, IV (55101, 55102, 55103, 55104) ½-1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: PES00000, PES00001, PES00002, PES00003

Prerequisite(s):

Notes:

Integrated Athletics is a competitive sports program that enables students with disabilities to participate in a variety of competitive sports. Students learn the concept and rules of the game, including basketball, track/field, and soccer, and engage in physical activity while also learning important life skills such as teamwork, social skills, communication and work ethic. District-wide tournaments are held during the school day and occur throughout the school year. Students earn awards and recognition as their skills develop.

## ATHLETICS

Athletic classes are available as a substitute for Physical Education. Students shall not be enrolled in more than one Athletic/PE class. **Students are enrolled after receiving approval from the coach of the athletic activity.** Athletic classes are available in the following sports:

GIRLS ATHLETICS		BOYS ATHLETICS		COED ATHLETICS	
CRS	SPORT	CRS	SPORT	CRS	SPORT
6141	Basketball YEAR 1	6101	Baseball YEAR 1	6181	Cheerleading YEAR 1
6142	Basketball YEAR 2	6102	Baseball YEAR 2	6182	Cheerleading YEAR 2
6143	Basketball YEAR 3	6103	Baseball YEAR 3	6183	Cheerleading YEAR 3
6144	Basketball YEAR 4	6104	Baseball YEAR 4	6184	Cheerleading YEAR 4
6391	Cross Country YEAR 1	6161	Basketball YEAR 1	6411	Trainer YEAR 1
6392	Cross Country YEAR 2	6162	Basketball YEAR 2	6413	Trainer YEAR 2
6393	Cross Country YEAR 3	6163	Basketball YEAR 3	6415	Trainer YEAR 3
6394	Cross Country YEAR 4	6164	Basketball YEAR 4	6417	Trainer YEAR 4
6241	Golf YEAR 1	6395	Cross Country YEAR 1		
6242	Golf YEAR 2	6396	Cross Country YEAR 2		
6243	Golf YEAR 3	6397	Cross Country YEAR 3		
6244	Golf YEAR 4	6398	Cross Country YEAR 4		
6385	Soccer YEAR 1	6211	Football YEAR 1		
6386	Soccer YEAR 2	6212	Football YEAR 2		
6387	Soccer YEAR 3	6213	Football YEAR 3		
6388	Soccer YEAR 4	6214	Football YEAR 4		
6111	Softball YEAR 1	6231	Golf YEAR 1		
6112	Softball YEAR 2	6232	Golf YEAR 2		
6113	Softball YEAR 3	6233	Golf YEAR 3		
6114	Softball YEAR 4	6234	Golf YEAR 4		
6261	Swimming YEAR 1	6375	Soccer YEAR 1		
6262	Swimming YEAR 2	6376	Soccer YEAR 2		
6263	Swimming YEAR 3	6377	Soccer YEAR 3		
6264	Swimming YEAR 4	6378	Soccer YEAR 4		
6301	Tennis YEAR 1	6251	Swimming YEAR 1		
6302	Tennis YEAR 2	6252	Swimming YEAR 2		
6303	Tennis YEAR 3	6253	Swimming YEAR 3		
6304	Tennis YEAR 4	6254	Swimming YEAR 4		
6191	Track YEAR 1	6291	Tennis YEAR 1		
6192	Track YEAR 2	6292	Tennis YEAR 2		
6193	Track YEAR 3	6293	Tennis YEAR 3		
6194	Track YEAR 4	6294	Tennis YEAR 4		
6431	Volleyball YEAR 1	6201	Track YEAR 1		
6432	Volleyball YEAR 2	6202	Track YEAR 2		
6433	Volleyball YEAR 3	6203	Track YEAR 3		
6434	Volleyball YEAR 4	6204	Track YEAR 4		
		6461	Wrestling YEAR 1		
		6462	Wrestling YEAR 2		
		6463	Wrestling YEAR 3		
		6464	Wrestling YEAR 4		

## JUNIOR ROTC

### ARMY JUNIOR ROTC AT HUMBLE HIGH SCHOOL

#### LET I (5850) 1 credit (state)

GPA Level 2

Grade Level(s): 9

Service ID: PES00004

Prerequisite(s): None

Notes: ROTC I is a PE credit.

Students will study leadership theory and application, a foundation for success, communication/study skills, citizenship, military customs and courtesies, physical training, drill, map reading, and the history and objective of JROTC.

#### LET II (5851) 1 credit (state)

GPA Level 2

Grade Level(s): 10

Service ID: 3160200

Prerequisite(s): LET I

Notes:

Study of wellness, fitness and first aid, drug awareness, ethical values, and sound citizenship principles in American history and Government. Demonstrate knowledge of drill, map reading, and physical training, with emphasis on methods of instruction. Prerequisite: Army JROTC I.

#### LET III (5852) 1 credit (state)

GPA Level 2

Grade Level(s): 11

Service ID: 3160300

Prerequisite(s): LET II

Notes:

Study of leadership strategies, the foundation of success, managing conflict, career planning, financial planning, citizenship in American history and Government with continued practical work in leadership, drill, technology awareness, and methods of instruction, map reading, and physical training. Prerequisite: Army JROTC I and II.

#### LET IV (5853) 1 credit (state)

GPA Level 2

Grade Level(s): 12

Service ID: 3160400

Prerequisite(s): LET III

Notes:

Demonstrate leadership potential as a role model, coach, counselor, management skill, and assistant instructor. Study service to the Nation and financial planning, with continued practical work in the drill, technology awareness, physical training, and command and staff principles. (950421) Assist instructor in the LET level class assigned. Assist instructor in the drill, physical training, and inspections with a requirement in teaching a minimum of one course for each subject taught for the LET level class assigned, emphasizing proper teaching methods and preparation of lesson plans. Commonly assumed the leadership position and the responsibilities of command functions with continued practical work in drill, technology awareness, and physical training. Prerequisite: JROTC I, II, and III.

## ARMY JUNIOR ROTC AT SUMMER CREEK HIGH SCHOOL

### LET I (5850) 1 credit (state)

GPA Level 2

Grade Level(s): 9

Service ID: PES00004

Prerequisite(s): None

Notes: ROTC I is a PE credit.

Students will study leadership theory and application, a foundation for success, communication/study skills, citizenship, military customs and courtesies, physical training, drill, map reading, and the history and objective of JROTC.

### LET II (5851) 1 credit (state)

GPA Level 2

Grade Level(s): 10

Service ID: 3160200

Prerequisite(s): LET I

Notes:

Study of wellness, fitness and first aid, drug awareness, ethical values, and sound citizenship principles in American history and Government. Demonstrate knowledge of drill, map reading, and physical training, with emphasis on methods of instruction. Prerequisite: Army JROTC I.

### LET III (5852) 1 credit (state)

GPA Level 2

Grade Level(s): 11

Service ID: 3160300

Prerequisite(s): LET II

Notes:

Study of leadership strategies, the foundation of success, managing conflict, career planning, financial planning, citizenship in American history and Government with continued practical work in leadership, drill, technology awareness, and methods of instruction, map reading, and physical training. Prerequisites: Army JROTC II.

### LET IV (5853) 1 credit (state)

GPA Level 2

Grade Level(s): 12

Service ID: 3160400

Prerequisite(s): LET III

Notes:

Demonstrate leadership potential as a role model, coach, counselor, management skill, and assistant instructor. Study service to the Nation and financial planning, with continued practical work in the drill, technology awareness, physical training, and command and staff principles. (950421) Assist instructor in the LET level class assigned. Assist instructor in the drill, physical training, and inspections with a requirement in teaching a minimum of one course for each subject taught for the LET level class assigned, emphasizing proper teaching methods and preparation of lesson plans. Commonly assumed the leadership position and the responsibilities of command functions with continued practical work in drill, technology awareness, and physical training. Prerequisite: JROTC I, II, and III.

## NAVY JUNIOR ROTC AT KINGWOOD HIGH SCHOOL

### **Navy Science I (5850) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: PES00004

Prerequisite(s): None

Notes: ROTC I counts as a PE credit.

Foundation of Navy ROTC: will introduce the students to the NJROTC Program its background, mission, curriculum, citizenship and American Government and activities, Navy Ships, wellness, fitness and first aid as well as its benefits to the cadets.

Leadership Lab: Military Drill

### **Navy Science II (5851) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 3160200

Prerequisite(s): Recommended, Navy Science I

Notes:

Maritime History, Nautical Science for Second year NJROTC students to include Oceanography, Meteorology, Astronomy and Physical Science

Leadership Lab: Military Drill.

### **Navy Science III (5852) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 3160300

Prerequisite(s): Recommended, Navy Science II

Notes:

Navy knowledge and skills for the NJROTC 3rd Year Cadet, Sea Power and National Security, Naval Operation and Support function, Military Law, and International Law of the Sea: The role of government in Sea Power, The American Revolution, The Civil War, World War I, The Interwar years 1918-1941.

Leadership Lab: Military Drill

### **Navy Science IV (5853) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 3160400

Prerequisite(s): Recommended, Navy Science III

Notes:

The Navy Science 4 cadets will understand the Fundamental of Leadership, Selected Readings and research of Leadership, Leadership Group Dynamic, Thoughts on man's Purpose, Diversity, and Management skills. The Federal Judicial System; Enforcing the law, John Marshall and Judicial Review.

Leadership Lab: Military Drill and Team Building, Oral Communication, Written Communication, Understanding and Evaluating Performance.

## AIR FORCE JUNIOR ROTC AT KINGWOOD PARK HIGH SCHOOL

### JROTC Aerospace & Aviation (5854) 1 credit (state)

GPA Level 2

Grade Level(s): 9-12

Service ID: N1304672

Prerequisite(s):

Notes:

This course is an Air Force Junior ROTC curriculum that serves as a prerequisite to the Aviation Ground School. There is a presentation of both aerospace science and leadership curriculum in one course.

AS200 - The Science of Flight: Provides the foundation for advanced exploration in the areas of professional pilot, aerospace engineering, and unmanned aircraft systems. Students will learn about the history of aviation, from Leonardo da Vinci's ideas about flight to the Wright Brothers and the space race. Along the way students will learn about the innovations and technological developments that have made today's aviation and aerospace industries possible. The course includes engineering practices, the design process, aircraft structure, space vehicles past and present, and a look toward future space exploration. Students will also learn about the wide variety of exciting and rewarding careers available to them. The Introduction to Aerospace and Aviation course will inspire students to consider aviation and other aerospace careers while laying the foundation for Aviation Ground School in grades 11-12.

LE200-Leadership Education 200 Communication, Awareness, and Leadership or LE 400 Principles of Management: These courses provide exposure to the fundamentals of communication and/or management. Fitness, Drill and Ceremonies are also part of this JROTC curriculum.

### Aerospace Science I (5850) 1 credit (state)

GPA Level 2

Grade Level(s): 9-12

Service ID: PES00004

Prerequisite(s):

Notes: ROTC I is a PE credit. Each Military Science course is divided into three separate but equivalent sections of study; Aviation Science, Leadership Education, and Health and Wellness.

AS100 – A Journey into Aviation History: Focuses on military and civilian flight throughout the centuries with emphasis on modernization and transformation from Air Force to Aerospace Force; a brief history of astronomical and space exploration.

LE 100-Leadership Education 1 Introduction to Air Force ROTC: Discusses Air Force structure, customs, courtesies, and elements of good citizenship. Drill and Ceremonies.

WELLNESS – Team leadership and wellness component.

### Aerospace Science II (5851) 1 credit (state)

GPA Level 2

Grade Level(s): 9-12

Service ID: 3160200

Prerequisite(s):

Notes: Each Military Science course is divided into three separate but equivalent sections of study; Aviation Science, Leadership Education, and Health and Wellness.

AS200-Science of Flight: Science of Flight will acquaint the student with the principles of aircraft flight, human requirements of flight, and principles of navigation. Discussion will include the forces of lift, drag, thrust, weight and the effects of the environment on flight.

LE200-Leadership Education 2 Communication, Awareness, and Leadership: Stresses communicating effectively, understanding groups and teams, preparing for leadership, solving conflict and problems and personal development. Drill and Ceremonies.

WELLNESS – Team leadership and wellness component.

**Aerospace Science III (5852) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 3160300

Prerequisite(s):

Notes: Each Military Science course is divided into three separate but equivalent sections of study; Aviation Science, Leadership Education, and Health and Wellness.

AS300 (FALL SEMESTER) The Exploration of Space: Examines the planets, latest advances in space technology, and continuing challenges of space and manned space flights.

AS300 (SPRING SEMESTER) An Introduction to Astronomy: Explores the history of astronomy to include prehistoric astronomy, early ideas of the heavens, solar system, and astronomy in the renaissance; Isaac Newton and the birth and growth of Astrophysics.

LE300-Leadership Education 3 Life Skills and Career Opportunities: Information on how to apply for college, vocational or tech school; information includes how to begin a job search, financial planning, registering to vote and citizenship responsibilities. Drill and Ceremonies.

WELLNESS – Team leadership and wellness component.

**Aerospace Science IV (5853) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 3160400

Prerequisite(s):

Notes: Each Military Science course is divided into three separate but equivalent sections of study; Aviation Science, Leadership Education, and Health and Wellness.

AS400 (FALL SEMESTER) Survival: Basic survival information found in Air Force Regulation 64-4 Survival Training

AS400 (SPRING SEMESTER) Policy and Organization: Establishes a foundation for understanding the US Air Force, purpose of the Department of Defense, study the National Security Strategy and gives a brief history of the military.

LE400-Principles of Management: This course provides exposure to the fundamentals of management. Drill and Ceremonies.

WELLNESS – Team leadership and wellness component.

**Drill and Ceremonies (5852) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 3160300

Prerequisite(s): Concurrent enrollment in AFJROTC I, II, III, or IV

Notes:

The Drill and Ceremonies course provides fundamental and in-depth instruction in Air Force drill and ceremonies to include cadet ability to perform the AFJROTC 30-step drill sequence at the appropriate level commensurate with their enrollment experience. The Drill and Ceremonies course concentrates on the elements of military drill, and describes individual and group precision movements, procedures for saluting, drill, ceremonies, reviews, parades, and development of command voice.

## MARINE CORPS JUNIOR ROTC AT ATASCOCITA HIGH SCHOOL

### LE I (5850) 1 credit (state)

GPA Level 2

Grade Level(s): 9

Service ID: PES00004

Prerequisite(s):

Notes: ROTC I is a PE credit.

The Marine Corps JROTC program is a four-year program that is designed to prepare students for life beyond high school. The mission of the Marine Corps Junior ROTC is to: 1. Develop informed and responsible citizens, 2. Develop leadership skills, 3. Strengthen character, 4. Help form habits of self-discipline, 5. Develop respect for, and an understanding of, the need for constituted authority in a democratic society. The program focuses on developing respect for authority and personal responsibility in the first year. The second through fourth years build on the first year by offering an opportunity to become involved in a variety of teams to include Armed & Unarmed Drill, Color Guard, Air Rifle and Orienteering. The JROTC teams reinforce the tenets taught in the classroom and are the building blocks for potential assignment to leadership roles later on in the program. Completion of JROTC offers immediate benefits (promotions) for those students choosing to enlist after high school. We also help prepare students with ROTC and Service Academy Scholarship applications in their junior and senior year. Uniforms, equipment and supplies are furnished by the program. Students are required to furnish a physical examination at the beginning of the year and must be able to complete the basic physical functions associated with military drill and physical fitness training. The curriculum for the first year focuses heavily on the fundamentals of Leadership, Citizenship, Personal Growth and Responsibility, Public Service and Career Exploration, and General Military Subjects.

### LE II (5851) 1 credit (state)

GPA Level 2

Grade Level(s): 10

Service ID: 3160200

Prerequisite(s): Recommended, LE I

Notes:

JROTC II builds on the first year experience by allowing cadets to be assigned various leadership roles within the unit. Cadets learn decision making and the fundamentals of leadership while taking on roles of responsibility within the unit. Cadets receive instruction on topics including but not limited to Leadership, Public Service, History and Land Navigation. Additionally, cadets assume leadership roles within the after-school teams that further develop their sense of shared purpose and belonging. All general information contained in JROTC I above also applies to JROTC II.

### LE III (5852) 1 credit (state)

GPA Level 2

Grade Level(s): 11

Service ID: 3160300

Prerequisite(s): Recommended, LE II

Notes:

JROTC III builds on the second year experience by allowing cadets to be assigned additional leadership roles within the unit. Cadets continue to develop their decision making and leadership while taking on ever increasing roles of responsibility within the unit. Cadets receive instruction on topics including, but not limited to, leadership, National Security, college preparation, financial aid and Military Studies. Additionally, cadets assume leadership roles within the unit and after-school teams that further develop their sense of shared purpose and belonging. All general information contained in JROTC I above also applies to JROTC III.

Grade Level(s): 12

Service ID: 3160400

Prerequisite(s): Recommended, LE III

Notes: There are additional fees associated with this course.

JROTC IV builds on all previous years' experience by allowing cadets to be assigned the highest levels of leadership roles within the unit. Cadets utilize their increased leadership skills to exercise command and control, develop decision making and esprit de corps in the unit. Cadets receive instruction on topics including but not limited to building resumes, interview process, college preparation and financial aid. Additionally, cadets continue to assume greater leadership roles within the unit and after-school teams that further develop team building, pride, and unity in the unit. All general information contained in JROTC I above also applies to JROTC IV.

**COSTS: Students may be required to pay a course fee to cover miscellaneous costs associated with the program.**

Students will be expected/required to wear and care for a uniform and to participate in drill and ceremonies as well as physical fitness training. JROTC also offers extracurricular activities such as drill team, color guard, marksmanship and community service.

## TECHNOLOGY APPLICATIONS

### **Computer Science I (CT1030) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 03580200

Prerequisite(s): Principles of Information Technology *and* Algebra I

Notes: Course can count as LOTE credit; there are additional fees associated with this course.

Students acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as it relates to computer programming. Students apply technical skills to address business applications of emerging technologies.

### **Computer Science II (CT1032) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 03580300

Prerequisite(s): Algebra I *or* Computer Science I

Notes: Course can count as LOTE credit.

In this course, students expand their knowledge and skills in structured programming techniques and concepts by addressing more complex problems and developing comprehensive programming solutions. Students analyze the social responsibility of business and industry regarding the significant issues relating to environment, ethics, health, safety, and diversity in society and in the workplace as it relates to computer programming. Students also apply technical skills to address business applications of emerging technologies.

### **Computer Science II Dual (OnRamps) (CT1032D) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 03580300

Prerequisite(s): Algebra I, Computer Science I

Notes: Credit for CS 302 may be awarded by UT Austin for students who meet grading criteria. Additional fees apply with all OnRamps courses and district scholarships are available.

In this course students deepened their critical thinking skills and develop their ability to persist through challenges as they explore functional families: Linear, Absolute Value, Quadratic, Polynomial, Radical, Rational, Exponential, and Logarithmic. Students analyze data algebraically and with technology while developing their knowledge of properties of functions, matrices and systems of equations, and complex numbers. Students will experience a high-quality curriculum designed by the faculty at The University of Texas at Austin. The pedagogy of the course, Inquiry-Based Learning, encourages students to take an active role in the construction of their learning. This learning will be accomplished by abstraction, generalization, problem solving, and modeling. Students enrolled in OnRamps courses have an opportunity to earn a UT transcript course grade and credit as long as they meet certain grade criteria. Thriving in Our Digital World teaches computer science principles, a set of core ideas that shapes the landscape of computer science and its impact on our society. In addition to learning about the magic and beauty of computing, students will acquire essential Texas College and Career Readiness skills, applying critical thinking, problem-solving, and communication within a project-based learning framework. Students enrolled in OnRamps courses have an opportunity to earn a UT transcribed course grade and credit as long as they meet certain grade criteria.

**Advanced Placement Computer Science A (CT034) 1 credit (state)**GPA Level 1

Grade Level(s): 10-12

Service ID: A3580120

Prerequisite(s): Computer Science I and/or concurrent Algebra II

Notes: Course can count as a LOTE credit and a Math credit; There are additional fees associated with this course.

Students will learn more advanced problem solving and computer science basics using the Java programming language. This course emphasizes programming methodology, procedural abstraction, and in-depth study of algorithms, data structures, and data abstractions, as well as a detailed examination of a large case study program. Instruction will include preparation for the College Board Advanced Placement Computer Science A examination.

**Advanced Placement Computer Science Principles (CT1036) 1 credit (state)**GPA Level 1

Grade Level(s): 9-12

Service ID: A3580300

Prerequisite(s): Algebra 1

Notes: Course can count as LOTE credit

AP Computer Science Principles is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems—including the internet—work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical. Instruction will include preparation for the College Board Advanced Placement Computer Science Principles examination.

**Esports 1 (CT315) 1 credit (state)**GPA Level 2

Grade Level(s): 9-12

Service ID: 03580400

Prerequisite(s):

Notes:

Esports Careers and Technology is designed to prepare students for college studies and professional careers centered around the Esports industry. Students will learn the basics of content creation, Esports analytics, tournament organization, technology needs, and more.

## CAREER AND TECHNICAL EDUCATION (CTE) COURSES

### AGRICULTURE, FOOD AND NATURAL RESOURCES

#### **Animal Science (CT110) 1 credit (state)** GPA Level 2

Grade Level(s): 11-12 Service ID: 13000700

Prerequisite(s): Biology and Chemistry or Integrated Physics and Chemistry; Algebra I and Geometry; and either Small Animal Management, Equine Science, or Livestock Production. Recommended: Veterinary Medical Applications.

Notes: Can count as 1 Science credit.

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.

#### **Agriculture Leadership, Research, and Communications (CT124) 1 credit (state)** GPA Level 2

Grade Level(s): 10-12 Service ID: N1300266

Prerequisite(s): Recommended: Principles of Agriculture, Food, and Natural Resources

Notes:

Agricultural Leadership, Research and Communications will focus on challenging Agriculture, Food, and Natural Resources (AFNR) students to use higher level thinking skills, develop leadership abilities, employ standard research principles, and communicate agricultural positions effectively with all stakeholders.

#### **Agriculture Mechanics and Metal Technologies (CT126) 1 credit (state)** GPA Level 2

Grade Level(s): 10-12 Service ID: 13002200

Prerequisite(s): Recommended: Principles of Agriculture, Food, and Natural Resources

Notes:

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 metalworking 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.

#### **Agriculture Structures Design and Fabrication (CT127) 1 credit (state)** GPA Level 2

Grade Level(s): 11-12 Service ID: 13002300

Prerequisite(s): Recommended: Agriculture Mechanics and Metal Technologies

Notes:

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.

**Floral Design (CT120) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13001800

Prerequisite(s):

Notes: Counts as 1 Fine Art credit. There are additional fees associated with this course.

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.

**Floral Design II (CT125) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: N1300270

Prerequisite(s): Floral Design I

Notes:

In this course, students build on the knowledge from the Floral Design course and are introduced to more advanced floral design concepts, with an emphasis on specialty designs and specific occasion planning. This course focuses on building skills in floral design II and providing students with a thorough understanding of the design elements and planning techniques used to produce unique specialty floral designs that support the goals and objectives of a specific occasion or event. This course has a fee of \$20.

**Horticulture Science (CT123) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13002000

Prerequisite(s): Recommended: Principles of Agriculture, Food, and Natural Resources

Notes:

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.

**Livestock Production (CT107) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13000300

Prerequisite(s): Recommended: Principles of Agriculture, Food, and Natural Resources

Notes:

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.

**Veterinary Medical Applications (CT129) 1 credits (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13000610

Prerequisite(s): Equine Science, Small Animal Management, or Livestock Production

Notes: Personal transportation required. Limited Seating Course: See counselor for details.

Veterinary Medicine 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.

**Practicum in Agriculture, Food, and Natural Resources (CT131) 2 credits (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13002500

Prerequisite(s): Two or more courses in a sequence.

Notes: Personal transportation required. Limited Seating Course.

The practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. This practicum may be paid or non-paid. This is for the serious student who wants to focus on a specific career interest. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

**Principles of Agriculture, Food, and Natural Resources (CT100) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 13000200

Prerequisite(s):

Notes:

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.

**Professional Standards in Agribusiness (CT103) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13000800

Prerequisite(s): Recommended: Principles of Agriculture, Food, and Natural Resources

Co-requisite(s): Recommended: Professional Communications

Notes:

Professional Standards in Agribusiness primarily focuses on leadership, communication, employer-employee relations, and problem solving as they relate to agribusiness. To prepare for careers in agribusiness systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to leadership development and the workplace, and develop knowledge and skills regarding agricultural 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.

**Small Animal Management (CT108) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13000400

Prerequisite(s): Recommended: Principles of Agriculture, Food, and Natural Resources

Co-requisite(s): Recommended: Equine Science

Notes:

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 (CT109) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13000500

Prerequisite(s): Recommended: Principles of Agriculture, Food, and Natural Resources

Co-requisite(s): Recommended: Small Animal Management

Notes:

In Equine Science, students will acquire knowledge and skills related to equine animal systems and the equine industry. Equine Science addresses topics related to horses, donkeys, and mules.

**Wildlife, Fisheries, and Ecology Management (CT117) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13001500

Prerequisite(s):

Notes:

To be prepared for careers in natural resource systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the management of game and non-game wildlife species, fish, and aqua crops and their ecological needs as related to current agricultural practices.

## ARCHITECTURE AND CONSTRUCTION

### **Architectural Design I (CT213) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13004600

Prerequisite(s): Recommended: Principles of Architecture, Principles of Construction.

Notes: The fee for this course is \$10.00.

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

### **Architectural Design II (CT214) 2 credits (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13004700

Prerequisite(s): Architectural Design I

Notes: The fee for this course is \$10.00.

In Advanced Architectural Design, students gain advanced knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, and landscape architecture. Advanced Architectural design includes the advanced knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for commercial or residential architectural purposes. This course could lead to an industry certification.

### **Construction Management I (CT205) 2 credits (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13004900

Prerequisite(s): Recommended: Principles of Architecture or Principles of Construction.

Notes: Located at Kingwood Park HS and Summer Creek HS.

In Construction Management I, students will gain knowledge and skills needed to enter the workforce as apprentice carpenters or building maintenance supervisors' assistants or to build a foundation toward a postsecondary degree in architecture, construction science, drafting, or engineering. Construction Management I includes the knowledge of design techniques and tools related to the management of architectural and engineering projects. This course could lead to an industry certification.

### **Construction Management II (CT207) 2 credits (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13005000

Prerequisite(s): Recommended: Construction Management I.

Notes: Located at Kingwood Park HS and Summer Creek HS.

In Construction Management II, students will gain knowledge and skills needed to enter the workforce as apprentice carpenters or building maintenance supervisors' assistants or to build a foundation toward a postsecondary degree in architecture, construction science, drafting, or engineering. Construction Management II includes knowledge of the design, techniques, and tools related to the management of architectural and engineering projects. This course could lead to an industry certification.

**Construction Technology I (CT208) 2 credits (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13005100

Prerequisite(s): Recommended, Principles of Architecture or Principles of Construction.

Notes: Located at KHS and HHS

In Construction Technology I, students gain knowledge and skills specific to those needed to enter the workforce as carpenters or building maintenance supervisors or prepare for a postsecondary degree in construction management, architecture, or engineering. Students acquire knowledge and skills in safety, tool usage, building materials, codes, and framing. This course could lead to an industry certification.

**Construction Technology II (CT209) 2 credits (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13005200

Prerequisite(s): Construction Technology I

Notes: Located at KHS and HHS

In Advanced Construction Technology, students gain advanced knowledge and skills specific to those needed to enter the workforce as carpenters, building maintenance technicians, or supervisors or prepare for a postsecondary degree in construction management, architecture, or engineering. Students build on the knowledge base from Construction Technology and are introduced to exterior and interior finish out skills. This course may be an articulated course. This course could lead to an industry certification.

**Electrical Technology I (CT217) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13005600

Prerequisite(s): Recommended, Principles of Architecture or Principles of Construction.

Notes: This course has a \$20.00 lab fee. Located at HHS.

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.

**Electrical Technology II (CT218) 2 credits (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13005700

Prerequisite(s): Electrical Technology I

Notes: This course has a \$20.00 lab fee. Located at HHS.

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.

**Interior Design I (CT215) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13004300

Prerequisite(s):

Notes:

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

**Interior Design II (CT216) 2 credits (state)** **GPA Level 2**

Grade Level(s): 11-12

Service ID: 13004400

Prerequisite(s): Interior Design I

Notes:

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

**Practicum in Architectural Design (CT226) 2 credits (state)** **GPA Level 2**

Grade Level(s): 12

Service ID: 13004800

Prerequisite(s): Two or more courses in a sequence.

Notes: Personal transportation required.

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. This practicum may be paid or non-paid. This is for the serious student who wants to focus on a specific career interest. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

**Practicum in Construction Technology (CT224) 2 credits (state)** **GPA Level 2**

Grade Level(s): 12

Service ID: 13005250

Prerequisite(s): Two or more courses in a sequence.

Notes: Personal transportation required. Located at KHS and HHS.

Practicum in Construction Technology is an occupationally specific course designed to provide classroom technical instruction or on-the-job training experiences. Safety and career opportunities are included in addition to work ethics and job-related study in the classroom. This practicum may be paid or non-paid. This is for the serious student who wants to focus on a specific career interest. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

**Principles of Architecture (CT200) 1 credit (state)** **GPA Level 2**

Grade Level(s): 9-12

Service ID: 13004210

Prerequisite(s):

Notes: There are additional fees associated with this course.

This course provides an overview of 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. 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.

**Principles of Construction (CT203) 1 credit (state)** **GPA Level 2**

Grade Level(s): 9-12

Service ID: 13004220

Prerequisite(s):

Notes: There are additional fees associated with this course.

This course is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment. Job specific, skilled training can be provided through the use of training modules to identify career goals in trade and industry areas.

## ARTS, AUDIOVISUAL TECHNOLOGY, AND COMMUNICATION

### **Principles of Arts, Audio/Video Technology and Communications (CT300) 1 credit (state)**

GPA Level 2

Grade Level(s): 9

Service ID: 13008200

Prerequisite(s):

Notes:

Careers in the Arts, Audio/Video Technology, and Communications 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. 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.

### **Audio/Video Production I (CT307) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 13008500

Prerequisite(s):

Notes: There are additional fees associated with this course.

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post-production activities.

### **Audio/Video Production II (CT309) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13008600

Prerequisite(s): Audio/Video Production I

Notes: There are additional fees associated with this course.

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production activities. This course may be implemented in an advanced audio format or an advanced format, including both audio and video.

### **Audio/Video Production II & Lab (CT310) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13008610

Prerequisite(s): Audio/Video Production I

Notes: There are additional fees associated with this course.

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production activities. This course may be implemented in an advanced audio format or an advanced format, including both audio and video.

**Practicum in Audio/Video Production (CT332) 2 credits (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13008700

Prerequisite(s): Audio/Video Production II

Notes: Limited seating course. Personal transportation required.

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production audio and video activities in a studio environment. This course may be implemented in an advanced audio, video, or animation format. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. This practicum may be paid or non-paid. This is for the serious student who wants to focus on a specific career interest. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

**Practicum in Audio/Video Production Year 2 (CT333) 2 credits (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 13008710

Prerequisite(s): Practicum Audio/Video Production II

Notes: Limited seating course. Personal transportation required.

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production audio and video activities in a studio environment. This course may be implemented in an advanced audio, video, or animation format. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. This practicum may be paid or non-paid. This is for the serious student who wants to focus on a specific career interest. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

**Graphic Design & Illustration I (CT326) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13008800

Prerequisite(s):

Notes: There are additional fees associated with this course.

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 Art, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry and careers in visual arts and design, photography, and multimedia. Emphasis is placed on ethical, practical application of skills.

**Graphic Design & Illustration II (CT328) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13008900

Prerequisite(s): Graphic Design &amp; Illustration I

Notes: There are additional fees associated with this course.

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 Art, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on practical application of design theory and skills. Students will produce advertisements, brochures, magazines, and flyers, and maintain a professional portfolio of work.

**Graphic Design & Illustration II & Lab (CT329) 2 credits (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13008910

Prerequisite(s): Graphic Design &amp; Illustration I and II

Notes: There are additional fees associated with this course.

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 Art, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on practical application of design theory and skills. Students will produce advertisements, brochures, magazines, and flyers, and maintain a professional portfolio of work.

**Animation I (CT303) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13008300

Prerequisite(s):

Notes: There are additional fees associated with this course.

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

**Animation II (CT305) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13008400

Prerequisite(s): Animation I

Notes: There are additional fees associated with this course.

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

**Animation II & Lab (CT306) 2 credits (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13008410

Prerequisite(s): Animation I

Notes: There are additional fees associated with this course.

Careers in animations span all aspects of motion graphics. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to create two and three-dimensional animations. The instruction also assists students seeking 127 careers in the animation industry.

**Practicum in Graphic Design and Illustration (CT336) 2 credits (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13009000

Prerequisite(s): Graphic Design and Illustration II

Notes: Limited seating course. Personal transportation required.

Careers in graphic design and illustration span all aspects of the advertising and visual communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. This practicum may be paid or non-paid. This is for the serious student who wants to focus on a specific career interest. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

**Practicum in Animation (CT331) 2 credits (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13008450

Prerequisite(s): Animation II

Notes: Limited seating course. Personal transportation required.

Students will be expected to develop a technical understanding of the industry with a focus on skill proficiency in animation. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. This practicum may be paid or non-paid. This is for the serious student who wants to focus on a specific career interest. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

**Professional Communications (CT330) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 13009900

Prerequisite(s):

Notes:

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 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.

**Esports I (CT315) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 03580400

Prerequisite(s):

Notes:

Esports Careers and Technology is designed to prepare students for college studies and professional careers centered around the Esports industry. Students will learn the basics of content creation, Esports analytics, tournament organization, technology needs, and more.

**Video Game Design (CT313) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13009970

Prerequisite(s): Graphic Design I or Animation I

Notes:

This course will allow students to explore one of the largest industries in the global marketplace and the new emerging careers it provides in the field of technology. Students will learn computerized gaming, evolution of gaming, artistic aspects of perspective, design and animation, and technical concepts of collision theory and programming logic. Students will participate in a simulation of real video game design teams while developing technical proficiency in constructing an original game design.

**Arts & Entertainment Tech Dual (OnRamps) (CT320D) 1 credit (state)**

GPA Level 1

Grade Level(s): 10-12

Service ID: 03580610

Prerequisite(s): Graphic Design (Recommended)

Notes: Credit for AET 304 may be awarded by UT Austin for students who meet grading criteria. Additional fees apply with all OnRamps courses and district scholarships are available.

Arts and Entertainment Technologies provides first-hand experiences with digital media technology, software, and applications for use in entertainment and artistic endeavors. Students engage with multi-disciplinary tools; build technological skills; and apply methods of design thinking to create products, applications, and experiences for specific audiences. Students engage in project-based learning to study an assortment of entertainment concepts and experiences; discover the underlying technology involved; and explore the cultural, philosophical, ethical, and practical aspects of entertainment technology. Students enrolled in OnRamps courses have an opportunity to earn a UT transcripted course grade and credit as long as they meet certain grade criteria.

## BUSINESS, MARKETING AND FINANCE

### **Business English (CT405) 1 credit (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 13011600

Prerequisite(s): English III, Recommended, Touch Systems Data Entry.

Notes: Counts as 1 English credit.

Students recognize, evaluate, and prepare for a rapidly evolving global business environment that requires flexibility and adaptability. Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students are expected to plan, draft, and complete written compositions on a regular basis. Students edit their papers for clarity, engaging language, and the correct use of the conventions and mechanics of written English and produce final, error-free drafts for business reproduction. This course may satisfy the English credit for graduation.

### **Business Information Management (CT406) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 13011400

Prerequisite(s): Recommended, Touch System Data Entry.

Notes:

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

### **Business Law (CT404) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13011700

Prerequisite(s):

Notes:

Students analyze the social responsibility of business and industry regarding the significant issues relating to the legal environment, business ethics, torts, contracts, negotiable financial instruments, personal property, sales, warranties, and business organizations, concept of agency and employment, and real property. Students apply technical skills to address business applications of contemporary legal issues. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

### **Global Business (CT412) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13011800

Prerequisite(s):

Notes:

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

**Practicum in Business Management (CT413) 2 credits (state)** **GPA Level 2**

Grade Level(s): 11-12 Service ID: 13012200

Prerequisite(s):

Notes: Personal Transportation required. Limited Seating Course: See counselor for details. Dual Credit option through Lone Star College-Kingwood and is a continuation of Accounting II Dual.

The Practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level 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. This practicum may be paid or non-paid. This is for the serious student who wants to focus on a specific career interest. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

**Practicum in Business Management Dual (CT413D) 2 credits (state)** **GPA Level 1**

Grade Level(s): 11-12 Service ID: 13012200

Prerequisite(s):

Notes:

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.

**Principles of Business, Marketing, and Finance (CT400) 1 credit (state)** **GPA Level 2**

Grade Level(s): 9-11 Service ID: 13011200

Prerequisite(s):

Notes:

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

**Touch System Data Entry (CT403) 1/2 credit (state)** **GPA Level 2**

Grade Level(s): 9-10 Service ID: 13011300

Prerequisite(s):

Notes:

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

**Virtual Business (CT411) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13012000

Prerequisite(s): Recommended, Touch System Data Entry

Notes:

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. Students will be able to identify steps needed to locate customers, set fees, and develop client contacts. Students will be able to provide administrative, creative, and technical services using advanced technological models of communications and data delivery. The student builds a functional website that incorporates the essentials of a virtual business.

**Advertising (CT1302) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 13034200

Prerequisite(s): Recommended, Principles of Business, Marketing, and Finance

Notes:

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

**Fashion Marketing (CT1303) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 13034300

Prerequisite(s): Recommended, Principles of Business, Marketing, and Finance

Notes:

Fashion Marketing is designed to provide students with knowledge of the various business functions in the fashion industry. Students in Fashion Marketing will gain a working knowledge of promotion, textiles, merchandising, mathematics, selling, visual merchandising, and career opportunities.

**Social Media Marketing (CT1305) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 13034650

Prerequisite(s): Recommended, Principles of Business, Marketing, and Finance

Notes:

Social Media Marketing is designed to look at the rise of social media and how marketers are integrating social media tools in their overall marketing strategy. The course will investigate how the marketing community measures success in the new world of social media. Students will manage a successful social media presence for an organization, understand techniques for gaining customer and consumer buy-in to achieve marketing goals, and properly select social media platforms to engage consumers and monitor and measure the results of these efforts.

**Sports and Entertainment Marketing (CT1306) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 13034600

Prerequisite(s): Recommended, Principles of Business, Marketing, and Finance

Notes:

This course will provide students with a thorough understanding of the marketing concepts and theories that apply to sports and sporting events and entertainment. The areas this course will cover include basic marketing, target marketing and segmentation, sponsorship, event marketing, promotions, sponsorship proposals, and implementation of sports and entertainment marketing plans. This course will also provide students an opportunity to develop promotional plans, sponsorship proposals, endorsement contracts, sports and entertainment marketing plans, and evaluation and management techniques.

**Practicum in Marketing (CT1307) 2 credits (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13034800

Prerequisite(s): Recommended, Principles of Business, Marketing, and Finance

Notes: Personal transportation required. Limited Seating course, see counselor for details.

Practicum in Marketing is a series of dynamic activities that focus on the customer to generate a profitable exchange. Students will gain knowledge and skills that help them to be proficient in one or more of the marketing functional areas associated with distribution, financing, marketing information management, pricing, product, planning, promotion, purchasing, risk management, and selling skills. Students will integrate skills from academic subjects, information technology, interpersonal communication, and management training to make responsible decisions. The practicum course is a paid or unpaid experience for students participating in a coherent sequence of career and technical courses in marketing.

**Practicum & Extended Practicum in Marketing (Co-requisite) (CT1308) 3 credits (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13034805

Prerequisite(s): Co-requisite, Practicum in Marketing

Notes: Personal transportation required. Limited Seating course, see counselor for details.

Extended Practicum in Marketing is a series of dynamic activities that focus on the customer to generate a profitable exchange. Students will gain knowledge and skills that help them to be proficient in one or more of the marketing functional areas associated with distribution, financing, marketing information management, pricing, product planning, promotion, purchasing, risk management, and selling skills. Students will integrate skills from academic subjects, information technology, interpersonal communication, and management training to make responsible decisions. . The practicum course is a paid or unpaid experience for students participating in a coherent sequence of career and technical courses in marketing.

**Real Estate Agent/Entrepreneurship (CT1304) 1 credit (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 13034400

Prerequisite(s): Recommended, Principles of Business, Marketing, and Finance

Notes: The fee for this course is \$475.00. Located at KHS. Limited Seating Course: See counselor for details.

Your real estate career begins today. This is a one year Real Estate Agent course designed for 12th grade students who would like to begin their career as a Realtor. This course is a state licensing program through Kaplan, an approved licensing program in cooperation with the TREC (Texas Real Estate Commission). Students who are 18 years of age and satisfactorily complete 180 hours in the following modules Principles of Real Estate (60), Law of Agency (30), Law of Contract (30), Promulgated Contract Forms (30) and Real Estate Finance (30) are expected to take the TREC exam to become a Texas Real Estate Agent.

**Accounting I (CT617) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13016600

Prerequisite(s): Recommended, Principles of Business, Marketing &amp; Finance

Notes:

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

**Accounting II (CT618) 1 Math credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13016700

Prerequisite(s): Accounting I

Notes: The fee for this course is \$40.00. Dual Credit option through Lone Star College-Kingwood.

Students continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage in various managerial and cost accounting activities. Students formulate and interpret financial information for use in management decision making. This course may satisfy a high school mathematics graduation requirement.

**Accounting II Dual (CT618D) 1 Math credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 13016700

Prerequisite(s): Accounting I

Notes:

In Accounting II, students will continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in various managerial, financial, and operational accounting activities. Students will formulate, interpret, and communicate financial information for use in management decision making. Students will use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real-world situations to maintain, monitor, control, and plan the use of financial resources.

**Banking and Financial Services (CT616) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13016300

Prerequisite(s): Recommended, Principles of Business, Marketing &amp; Finance

Notes:

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

**Money Matters (CT612) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 13016200

Prerequisite(s): Recommended, Principles of Business, Marketing &amp; Finance

Notes:

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

**Financial Analysis (CT619) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13016800

Prerequisite(s): Recommended, Principles of Business, Marketing &amp; Finance

Notes:

In Financial Analysis, students will apply knowledge and technical skills in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students will develop analytical skills by actively evaluating financial results of multiple businesses, interpreting results for stakeholders, and presenting strategic recommendations for performance improvement.

**Securities and Investments (CT614) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13016400

Prerequisite(s): Recommended, Principles of Business, Marketing & Finance

Notes:

In Securities and Investments, students will understand the laws and regulations to manage business operations and transactions in the securities industry.

**Statistics and Business Decision Making (CT620) 1 Math credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13016900

Prerequisite(s): Algebra II

Notes:

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. This course satisfies a high school mathematics graduation requirement.

## EDUCATION AND TRAINING

### **Principles of Education and Training (CT500) 1 credit (state)** **GPA Level 2**

Grade Level(s): 9-10

Service ID: 13014200

Prerequisite(s):

Notes:

Principles of Education and Training is designed to introduce learners to the various careers available within the education and training career cluster. Students use self-knowledge and educational and career information to analyze various careers within the education and training career cluster. Students will also gain an understanding of the basic knowledge and skills essential to careers within the education and training career cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.

### **Human Growth and Development (CT503) 1 credit (state)** **GPA Level 2**

Grade Level(s): 10-12

Service ID: 13014300

Prerequisite(s):

Notes:

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.

### **Child Guidance (CT908) 2 credits (state)** **GPA Level 2**

Grade Level(s): 11-12

Service ID: 13024800

Prerequisite(s): Recommended, Principles of Human Services or Child Development

Notes: Located at KPHS. Personal transportation required. Limited Seating course.

Child Guidance is a technical laboratory course that addresses the knowledge and skills related to child growth and guidance equipping students to develop positive relationships with children and effective caregiver skills. Students use these skills to promote the well-being and healthy development of children, strengthen a culturally diverse society, and pursue careers related to the care, guidance, and education of children, including those with special needs. Instruction may be delivered through school-based laboratory training or through work-based delivery arrangements such as cooperative education, mentoring, and job shadowing.

### **Instructional Practices in Education and Training (CT504) 2 credits (state)** **GPA Level 2**

Grade Level(s): 11-12

Service ID: 13014400

Prerequisite(s): Recommended, Principles of Education and Training or Human Growth and Development

Notes: Located at KPHS. Personal transportation required. Limited Seating Course.

Instructional Practices in Education and Training is a field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary Humble ISD educators in direct instructional roles with elementary and middle 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. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting. This course could lead to an industry certification.

**Practicum in Education and Training (CT505) 2 credits (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 13014500

Prerequisite(s): Instructional Practices in Education

Notes: Located at KPHS. Personal transportation required. Limited Seating Course.

Practicum in Education and Training is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary Humble ISD educators in direct instructional roles with elementary and middle 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 teachers, trainers, paraprofessionals, or other educational personnel. This is a non-paid practicum. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting. This course could lead to an industry certification.

## ENERGY

### **Foundations of Energy (CT1201) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-10

Service ID: 13040503

Prerequisite(s):

Notes:

Foundations of Energy provides students with the fundamentals of Texas energy resources from conventional, unconventional, and renewable sources. Students develop knowledge and skills regarding career and educational opportunities in the production, transmission, and use of energy in Texas, including import and export markets for energy.

### **Introduction to Process Technology (CT1210) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13040502

Prerequisite(s):

Co-requisite(s): Petrochemical Safety, Health, and Environment

Notes: Located at Summer Creek HS.

Introduction to Process Technology will introduce students to process technology professions, including the different career opportunities available, and required certification/postsecondary education requirements for each. Introduction to Process Technology is the first of two courses that provide a pathway that can lead to degree programs that support employment in energy, oil and gas process and refining, and chemical manufacturing industries. This course requires fees associated with dual enrollment and acquiring personal protective equipment.

### **Petrochemical Safety, Health, and Environment (CT1220) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13040504

Prerequisite(s):

Co-requisite(s): Introduction to Process Technology

Notes: Located at Summer Creek HS.

This course is important to learn about environmentally sound work habits within the various process industries, including but not limited to, petrochemical plants, refineries, oil and gas production, and power generation. Emphasis will be placed on safety, health, and environmental considerations in the performance of all job tasks and regulatory compliance matters. This is one of two courses that provide a pathway that can lead to degree programs that support employment in energy, oil and gas process and refining, and chemical manufacturing industries. This course requires fees associated with dual enrollment and acquiring personal protective equipment.

## HEALTH SCIENCE

### **Principles of Health Science (CT700) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-10

Service ID: 13020200

Prerequisite(s):

Notes:

The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the healthcare industry.

### **Medical Terminology (CT703) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13020300

Prerequisite(s):

Notes:

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

### **Medical Microbiology (CT705) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13020700

Prerequisite(s): Biology and Chemistry; Recommended: A course from the Health Science cluster.

Notes: Counts as 1 Science credit.

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

### **Anatomy and Physiology Honors or Dual (CT750/CT750D) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 13020600

Prerequisite(s): Biology and a 2<sup>nd</sup> Science credit; Recommended: A course from the Health Science cluster.

Notes: Counts as 1 Science credit. Can be taken for Dual Credit (CT750D)

Anatomy and Physiology of Human Systems is an advanced course designed to give students a thorough knowledge of both the structures and functions of the human body. The course is divided into five principal areas of concentration: organization, support and movement, control systems, maintenance, and continuity. The first area covers organization of the body from the molecular level to organ systems. The second area is a study of the skeletal and muscular systems. Included in control systems is a study of the nervous system and the endocrine system. The maintenance area focuses on the roles of the cardiovascular, respiratory, digestive, and excretory systems. In each of the areas, both homeostasis and pathology are considered. Laboratory work is an integral part of the course. Approximately twelve weeks are devoted solely to the cat dissection. Lab practicals are incorporated into most areas of the laboratory work.

### **Pathophysiology (CT707) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13020800

Prerequisite(s): Biology and Chemistry; Recommended: A course from the Health Science cluster.

Notes: Counts as 1 Science credit.

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.

**Health Science Theory/Clinical (CT712) 2 credits (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13020410

Prerequisite(s): Biology, Principles of Health Science recommended

Notes: Limited Seating Course.

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

**Health Informatics (CT710) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13020960

Prerequisite(s): Business Management I and Medical Terminology

Notes:

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 healthcare 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.

**Mathematics for Medical Professionals (CT755) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13020970

Prerequisite(s): Geometry and Algebra II

Notes: Counts as 1 Math credit.

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: Certified Nursing Assistant (CT715) 2 credits (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 13020500

Prerequisite(s): Health Science Theory/Clinical and Biology

Notes: Located at Humble HS and Kingwood HS; Double blocked year long course; Personal transportation required; the fee for this course is \$150, which includes certification exam fee and uniform. Limited Seating Course.

This is a state certification course for Certified Nursing Aides (CNA). Students will learn the skills required on the state test in a laboratory setting. Clinical rotations are arranged through long-term care facilities and hospitals for practice of the skills. Some rotations may be outside the school day. After completion of the course and meeting the required number of classroom and clinical hours, students are eligible to take the state test. Students are responsible for the cost of the state test and uniforms. Good attendance is essential for this state certification course. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

**Practicum in Health Science: Pharmacy Technician (CT716) 2 credits (state)** **GPA Level 2**

Grade Level(s): 12 Service ID: 13020500

Prerequisite(s): Health Science Theory/Clinical and Biology

Notes: Located at Atascocita HS and Kingwood HS; Double blocked year long course; Personal transportation required; The fee for this course is \$150.00 for scrubs, training license, and fingerprinting. Limited Seating Course.

This course will provide an overview of the pharmacokinetics and pharmacodynamics of prescription and nonprescription medications. Course content will emphasize drug classification, drug actions, drug administration, ethical and legal issues, and safety. Students will prepare for the national certification test issued by the Pharmacy Technician Certification Board once the student graduates. The course is lecture based with clinical rotations at local pharmacies. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

**Practicum in Health Science (CT714) 2 credits (state)** **GPA Level 2**

Grade Level(s): 12 Service ID: 13020500

Prerequisite(s): Biology and Health Science Theory/Clinical

Notes: Limited Seating Course.

This course is an extension of the Health Science Theory/Clinical. This course is designed to provide students the opportunity to experience clinical rotations for longer time periods. Students will have hands-on experiences for continued knowledge and skill development. These courses may be taught by different methodologies such as clinical rotation and career preparation learning. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

**Sports Medicine I: Health Science Theory/Clinical (CT722) 2 credits (state)** **GPA Level 2**

Grade Level(s): 11-12 Service ID: 13020410

Prerequisite(s): Principles of Health Science and Biology

Notes: Located at Humble HS. Personal transportation required; Limited Seating Course.

This course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers with an in-depth study and application of the components of Sports Medicine. Students will have hands-on experiences for continued knowledge and skill development which will involve career preparation learning with athletes and athletic teams at schools and/or select clinical sites.

**Sports Medicine II: Practicum in Health Science I (CT724) 2 credits (state)** **GPA Level 2**

Grade Level(s): 12 Service ID: 13020500

Prerequisite(s): Sports Medicine I: Health Science Theory/Clinical and Biology

Notes: Located at Humble HS. Personal transportation required. Limited Seating Course.

This course is an extension of the Sports Medicine: Health Science Theory/Clinical course. This course is designed to provide students the opportunity to experience clinical rotations for longer time periods to facilitate the study and application of the components of Sports Medicine. Students will have hands-on experiences for continued knowledge and skill development which will involve career preparation learning with athletes and athletic teams at schools and/or select clinical sites. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

## HOSPITALITY AND TOURISM

### **Principles of Hospitality and Tourism (CT800) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-11

Service ID: 13022200

Prerequisite(s):

Notes: The fee for this course is \$5.00.

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.

### **Introduction to Culinary Arts (CT803) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-10

Service ID: 13022550

Prerequisite(s): Recommended: Principles of Hospitality and Tourism

Notes: The fee for this course is \$20.00.

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.

### **Hotel Management (CT809) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13022300

Prerequisite(s): Recommended, Principles of Hospitality and Tourism

Notes:

This course focuses on the knowledge and skills needed to pursue staff and management positions available in the hotel industry. This in-depth study of the lodging industry includes departments within a hotel such as front desk, food and beverage, housekeeping, maintenance, human resources, and accounting. This course will focus on, but not be limited to, professional communication, leadership, management, human resources, technology, and accounting.

### **Culinary Arts (CT804) 2 credits (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13022600

Prerequisite(s): Recommended, Principles of Hospitality and Introduction to Culinary Arts

Notes: The fee for this course is \$50.00. Located at SCHS. Limited Seating Course.

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 any other appropriate industry certification. This course may be offered as a laboratory-based or internship course.

**Hospitality Services (Marriott) (CT810) 2 credits (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13022800

Prerequisite(s): Recommended, Hotel Management *or* Principles of Hospitality and Tourism

Notes: Located at Atascocita HS and Marriott Hotel at the airport. Additional period required for travel. Limited Seating Course.

Hospitality Services provides students with the academic and technical preparation to pursue high-demand and high skill careers in hospitality related industries. The knowledge and skills are acquired within a sequential, standards based program that integrates hands-on and project-based instruction. Standards included in the Hospitality Services course are designed to prepare students for nationally recognized industry certifications, postsecondary education, and entry-level careers. In addition, Hospitality Services is designed so that performance standards meet employer expectations, enhancing the employability of students. Instruction may be delivered through laboratory training or through internships, mentoring, or job shadowing.

**Culinary Arts II (CT805) 2 credits (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13022650

Prerequisite(s): Culinary Arts

Notes: The fee for this course is \$50.00. Located at SCHS. Limited Seating Course.

Advanced Culinary Arts II 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.

**Practicum in Culinary Arts (CT807) 2 credits (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 13022700

Prerequisite(s): Culinary Arts II

Notes: The fee for this course is \$50.00. Located at SCHS. Limited Seating Course.

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. This is a non-paid practicum. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

**Practicum in Hospitality Services (Marriott) (CT811) 3 credits (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 13022905

Prerequisite(s): Hospitality Services

Notes: Located at Atascocita HS and Marriott Hotel at the airport. Limited Seating Course.

Practicum in Hospitality Services is a unique practicum experience that provides opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Hospitality Services integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace. Students are taught employability skills, including job-specific skills applicable to their training plan, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Practicum in Hospitality Services is relevant and rigorous, supports student attainment of academic and technical standards, and effectively prepares students for college and career success. This is a non-paid practicum. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting. The following course could lead to an industry certification.

## HUMAN SERVICES

### **Principles of Human Services (CT900) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 13024200

Prerequisite(s):

Notes:

This laboratory course will enable students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, and personal care services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers.

### **Interpersonal Studies (CT905) 1/2 credit (state)**

GPA Level 2

Grade Level(s): 9

Service ID: 13024400

Prerequisite(s): Recommended, Principles of Human Services

Notes:

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.

### **Child Development (CT907) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13024700

Prerequisite(s): Recommended, Principles of Human Services

Notes:

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

### **Family and Community Services (CT909) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13024900

Prerequisite(s): Recommended, Principles of Human Services

Notes:

This course is a one-year program designed to teach students about social action and responsibility. In addition to working collaboratively at school, each student will also work for a selected non-profit organization throughout the school year, thus accruing four hours of volunteer service each week. Students will design and implement a Social Action Project to better their community and non-profit organization.

**Practicum in Human Services (CT910) 2 credits (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13025000

Prerequisite(s): Two or more courses in a sequence.

Notes: Personal transportation required. Limited Seating Course.

Practicum in Human Services provides occupationally specific training and focuses on the development of consumer services, early childhood development and services, counseling and mental health services, and family and community services careers. Content for Practicum in Human Services is designed to meet the occupational preparation needs and interests of students and should be based upon the knowledge and skills selected from two or more courses in a coherent sequence in the human services cluster as well as the essential knowledge and skills for communication, critical thinking, problem solving, information technology, ethical and legal responsibilities, leadership, teamwork, and entrepreneurship. This practicum may be paid or non-paid. This is for the serious student who wants to focus on a specific career interest. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

**Cosmetology I and Lab (CT913) 3 credits (state)**

GPA Level 2

Grade Level(s): 11

Service ID: 13025210

Prerequisite(s): Recommended, Principles of Human Services

Notes: Located at Humble HS. Limited Seating Course.

This is a two-year course designed for students who would like to enter the field of cosmetology. This is a state licensing program in cooperation with the Texas Department of Licensing and Regulation. Students must earn 1,000 hours in theory and practical applications in the laboratory provided. Upon the satisfactory of the hours students are expected to take the Texas Department of Licensing and Regulation State Board Exam to become certified as a cosmetologist. KHS, AHS, KPHS, & SCHS students may be transported to take the course. All students must obtain a permit from The Texas Department of License & Regulations. This is a one-time fee and must be obtained before hours are accumulated. Students are also required to purchase a cosmetology kit. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

**Cosmetology II and Lab (CT923) 3 credits (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 13025310

Prerequisite(s): Cosmetology I

Notes: Located at Humble HS. Limited Seating Course.

This is a two-year course designed for students who would like to enter the field of cosmetology. This is a state licensing program in cooperation with the Texas Department of Licensing and Regulation. Students must earn 1,000 hours in theory and practical applications in the laboratory provided. Upon the satisfactory of the hours students are expected to take the Texas Department of Licensing and Regulation State Board Exam to become certified as a cosmetologist. KHS, AHS, KPHS, & SCHS students may be transported to take the course. All students must obtain a permit from The Texas Department of License & Regulations. This is a one-time fee and must be obtained before hours are accumulated. Students are also required to purchase a cosmetology kit. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

## INFORMATION TECHNOLOGY

### **Principles of Information Technology (CT1000) 1 credit (state)**

**GPA Level 2**

Grade Level(s): 9-10

Service ID: 13027200

Prerequisite(s):

Notes:

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

### **Computer Maintenance (CT1003/CT1003D) 1 credit (state)**

**GPA Level 1**

Grade Level(s): 10-12

Service ID: 13027300

Prerequisite(s): Recommended Business Information Management or Principles of Information Technology

Notes: This is a Double blocked course. Located at Kingwood Park HS and Atascocita HS. Dual Credit option through Lone Star College-Kingwood.

Students acquire principles of computer maintenance, including electrical and electronic theory, computer hardware principles, and broad level components related to the installation, diagnosis, service, and repair of computer systems. To prepare for success, students must have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. This course could lead to an industry certification and dual credit through Lone Star College-Kingwood.

### **Computer Science I (CT1030) 1 credit (state)**

**GPA Level 2**

Grade Level(s): 10-12

Service ID: 3580200

Prerequisite(s): Recommended, Business Information Management

Notes:

Students acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as it relates to computer programming. Students apply technical skills to address business applications of emerging technologies.

### **Computer Science II (CT1032) 1 credit (state)**

**GPA Level 1**

Grade Level(s): 11-12

Service ID: 3580300

Prerequisite(s): Algebra I or Computer Science I

Notes:

In this course, students expand their knowledge and skills in structured programming techniques and concepts by addressing more complex problems and developing comprehensive programming solutions. Students analyze the social responsibility of business and industry regarding the significant issues relating to environment, ethics, health, safety, and diversity in society and in the workplace as it relates to computer programming. Students also apply technical skills to address business applications of emerging technologies.

**Computer Science II Dual (OnRamps) (CT1032D) 1 credit (state)**

GPA Level 1

Grade Level(s): 12

Service ID: 03580300

Prerequisite(s): Algebra I, Geometry, Algebra II and Computer Science I

Notes: Credit for CS 302 may be awarded by UT Austin for students who meet grading criteria. Additional fees apply with all OnRamps courses and district scholarships are available.

In this course students deepened their critical thinking skills and develop their ability to persist through challenges as they explore functional families: Linear, Absolute Value, Quadratic, Polynomial, Radical, Rational, Exponential, and Logarithmic. Students analyze data algebraically and with technology while developing their knowledge of properties of functions, matrices and systems of equations, and complex numbers. Students will experience a high-quality curriculum designed by the faculty at The University of Texas at Austin. The pedagogy of the course, Inquiry-Based Learning, encourages students to take an active role in the construction of their learning. This learning will be accomplished by abstraction, generalization, problem solving, and modeling. Students enrolled in OnRamps courses have an opportunity to earn a UT transcript course grade and credit as long as they meet certain grade criteria.

**Quantum Computing Dual (OnRamps) (335234DOR) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: 13037200

Prerequisite(s): Recommended, Algebra I, Geometry, Algebra II or PreCalculus

Notes: Credit for PHY 309L (PHYS 1307) may be awarded by UT Austin for students who meet grading criteria. Additional fees apply with all OnRamps courses and district scholarships are available.

Quantum Computing offers an introduction to the modern science and technological applications of quantum physics. Students will develop a deep understanding of the seemingly bizarre quantum world and how its "weirdness" may be harnessed to solve real-world problems. Students taking this course will acquire unique technical skills in physics, programming, cybersecurity, and mathematics; as well as valuable soft skills in critical thinking, problem-solving, and communication through class activities and group projects. Proficiency in algebra and geometry is assumed. This course lays the conceptual groundwork for STEM majors. Students enrolled in OnRamps courses have an opportunity to earn a UT transcribed course grade and credit as long as they meet certain grade criteria.

**Networking (CT1005/CT1005D) 1 credit (state)**

GPA Level 1

Grade Level(s): 10-12

Service ID: 13027400

Prerequisite(s):

Notes: This is a Double blocked course. Located at Kingwood Park HS and Atascocita HS. Dual Credit option through Lone Star College-Kingwood.

Students develop knowledge of the concepts and skills related to telecommunications and data networking technologies and practices in order to apply them to personal or career development. To prepare for success, students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. The following course could lead to an industry certification. This course could lead to an industry certification and dual credit through Lone Star College-Kingwood.

**CISCO Academy I (CT1023/CT1023D) 1 credit (state)**

GPA Level 1

Grade Level(s): 11-12

Service ID: N1302803

Prerequisite(s): Recommended, Computer Maintenance

Notes: This is a Double blocked course. Located at Kingwood Park HS and Atascocita HS. Dual Credit option through Lone Star College-Kingwood.

The goal of this course is to introduce you to fundamental networking concepts and technologies. These online course materials will assist you in developing the skills necessary to plan and implement small networks across a range of applications. Topics covered in this course include Networking Basics, the OSI Model, Ethernet, Cabling and IP Addressing. The second goal is to develop an understanding of how a router learns about remote networks and determines the best path to those networks. This course includes both static routing and dynamic routing protocols. Topics covered in this course include Intro to Routing and Packet Forwarding, RIP v 1 and RIP v 1, VLSM, CIDR, EIGRP and

OSPF. This course could lead to an industry certification. This course could lead to an industry certification and dual credit through Lone Star College-Kingwood.

**CISCO Academy II (CT1024/CT1024D) 1 credit (state)**

**GPA Level 1**

Grade Level(s): 11-12

Service ID: N1302804

Prerequisite(s): CISCO Academy I

Notes: This is a Double blocked course. Located at Kingwood Park HS and Atascocita HS. Dual Credit option available through Lone Star College-Kingwood.

The goal is to develop an understanding of how switches are interconnected and configured to provide network access to LAN users. This course also teaches how to integrate wireless devices into a LAN. Topics covered in this course include LAN design, Basic Switch Configuration, VLANs, VTP, STP and Basic Wireless. The second goal of this course is to introduce you to fundamental networking concepts and technologies. These online course materials will assist you in developing the skills necessary to plan and implement small networks across a range of applications. Topics covered in this course include Intro to WANS, Frame Relay, Network Security, ACLs, Teleworker Services, IP Addressing Services and Network. This course could lead to an industry certification and dual credit through Lone Star College-Kingwood.

**Computer Technician Practicum (CT1011) 2 credits (state)**

**GPA Level 2**

Grade Level(s): 11-12

Service ID: 13027510

Prerequisite(s): Recommended, Computer Maintenance

Notes: Personal transportation required.

Students gain knowledge and skills in the area of computer technologies, including advanced knowledge of electronic theory, computer principles, and components related to the installation diagnosis, service and repair of computer-based technology systems. Students will reinforce, apply, and transfer their knowledge and skills to a variety of settings and problems. Proper use of analytical skills and application of information technology concepts and standards are essential to prepare students for success in a technology-driven society. The critical thinking, information technology experience, and product development may be conducted either in a classroom setting with an instructor, with an industry mentor, or both. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

**Practicum in Information Technology (CT1012) 2 credits (state)**

**GPA Level 2**

Grade Level(s): 12

Service ID: 13028000

Prerequisite(s): A minimum of two high school information technology (IT) courses.

Notes:

In the Practicum in Information Technology, students will gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge and skills in the proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an industry mentor, as an unpaid or paid internship, as part of a capstone project, or as career preparation.

## LAW AND PUBLIC SERVICE

### Principles of Law, Public Safety, Corrections, and Security (CT1100) 1 credit (state)

GPA Level 2

Grade Level(s): 9-12

Service ID: 13029200

Prerequisite(s):

Notes:

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.

### Court Systems and Practices (CT1110) 1 credit (state)

GPA Level 2

Grade Level(s): 10-12

Service ID: 13029600

Prerequisite(s): Recommended, Law Enforcement I

Notes:

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.

### Criminal Investigation (CT1108) 1 credit (state)

GPA Level 2

Grade Level(s): 10-12

Service ID: 13029550

Prerequisite(s): Recommended, Principles of Law, Public Safety, Corrections, and Security

Notes:

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 investigate 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 fingerprinting 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.

### Disaster Response: TEEN CERT (CT1120) 1/2 credit (state)

GPA Level 2

Grade Level(s): 10-12

Service ID: N1303011

Prerequisite(s):

Notes:

This course will train students as first responders following a major disaster, utilizing the Community Emergency Response Team (CERT) model curriculum, adopted by the Federal Emergency Management Agency (FEMA). The Teen CERT (Community Emergency Response Team) program educates students about disaster preparedness for hazards that may impact their area and trains them in basic disaster response skills. Using the "Scientific Method" to solve problems and using hands-on training, Teen CERT members are prepared to help themselves, their families and their school during a major disaster when professional responders are delayed or not readily available. Teen CERT empowers students with decision-making and problem solving skills and strategies to help them make informed decisions regarding prevention-mitigation, preparedness, response and recovery strategies to reduce loss of life & property. Students learn the significance of working as a team to improve safety and increase their effectiveness when responding to disasters.

**Federal Law Enforcement and Protective Services (CT1111) 1 credit (state)** **GPA Level 2**

Grade Level(s): 10-12 Service ID: 13029800

Prerequisite(s): Recommended, Principles of Law, Public Safety, Corrections, and Security

Notes:

Federal Law Enforcement and Protective Services provide 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.

**Law Enforcement I (CT1106) 1 credit (state)** **GPA Level 2**

Grade Level(s): 10-12 Service ID: 13029300

Prerequisite(s): Recommended, Principles of Law, Public Safety, Corrections, and Security

Notes:

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

**Law Enforcement II (CT1107) 1 credit (state)** **GPA Level 2**

Grade Level(s): 10-12 Service ID: 13029400

Prerequisite(s): Recommended, Law Enforcement I

Notes:

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 operations, and courtroom testimony.

**Forensic Science (CT1109) 1 credit (state)** **GPA Level 2**

Grade Level(s): 11-12 Service ID: 13029500

Prerequisite(s): Biology *and* Chemistry

Notes: Counts as 1 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 crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensic science.

**Emergency Medical Technician (CT740) 2 credits (state)** **GPA Level 2**

Grade Level(s): 12 Service ID: N1303015

Prerequisite(s): Biology, Recommended, Principles of Law, Public Safety, Corrections, and Security and Anatomy and Physiology

Notes: Personal transportation required. Located at Atascocita Volunteer Fire Department (Teacher of record-KHS); Limited Seating Course.

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. The EMT—Basic course is an introductory course to concepts, knowledge, and skills needed by EMTs in the areas of communications, transportation, and recordkeeping. Students interested in working in public safety, including fire, police, and ambulance operators will be capable of performing the job expectations of an EMT safely and effectively after the completion of this course.

**Firefighter I: Basic Structural Firefighter Certificate (CT1130D) 2 credits (state) (1<sup>st</sup> Semester)** **GPA Level 1**

Grade Level(s): 12 Service ID: 13029900

Prerequisite(s): Recommended, Principles of Law, Public Safety, Corrections, and Security, Law Enforcement I or Medical Terminology

Notes: Located at Lone Star College Kingwood. Personal transportation required. Limited Seating Course.

The Lone Star College-Kingwood Basic Structural Firefighter Certificate Level I is completed during the senior year of high school. Seniors will participate in the LSC-Kingwood Fire Academy four evenings a week during the fall semester (M-Th 5:15- 11:00PM), three evenings a week during the spring semester (5:15-11:00PM), and several Saturdays each semester. All LSC Fire science course work will take place at a Lone Star College-Kingwood site. Students are expected to arrange for their own transportation to and from the course, as transportation will not be provided by the ISD. A criminal background check and drug test is required prior to beginning the fire science and/or EMT certificate program, and must be completed through a college approved vendor. Additionally, acceptance to the Fire Academy requires the fire science recruit be declared physically fit by a doctor. Firefighting is very physical and recruits will be required to run, lift heavy objects and must fully participate in required physical agility course work. In addition to the Basic Structural Firefighter Certificate Level I, the Emergency Medical Technician (EMT) Basic Certificate is required to become a certified firefighter in the state of Texas. Please speak with your high school counselor for pathways to completing this requirement. Students must be 18 years old to participate. Fees are associated with the 2 year Firefighter program. Fees include rental of bunker gear and other equipment required for the program.

**Firefighter II: Basic Structural Firefighter Certificate (CT1135D) 3 credits (state) (2<sup>nd</sup> Semester)** **GPA Level 1**

Grade Level(s): 12 Service ID: 13030000

Prerequisite(s): Firefighter I, Recommended, Principles of Law, Public Safety, Corrections, and Security, Law Enforcement I or Medical Terminology

Notes: Located at Lone Star College Kingwood. Personal transportation required. Limited Seating Course.

The Lone Star College-Kingwood Basic Structural Firefighter Certificate Level I is completed during the senior year of high school. Seniors will participate in the LSC-Kingwood Fire Academy four evenings a week during the fall semester (M-Th 5:15- 11:00PM), three evenings a week during the spring semester (5:15-11:00PM), and several Saturdays each semester. All LSC Fire science course work will take place at a Lone Star College-Kingwood site. Students are expected to arrange for their own transportation to and from the course, as transportation will not be provided by the ISD. A criminal background check and drug test is required prior to beginning the fire science and/or EMT certificate program, and must be completed through a college approved vendor. Additionally, acceptance to the Fire Academy requires the fire science recruit be declared physically fit by a doctor. Firefighting is very physical and recruits will be required to run, lift heavy objects and must fully participate in required physical agility course work. In addition to the Basic Structural Firefighter Certificate Level I, the Emergency Medical Technician (EMT) Basic Certificate is required to become a certified firefighter in the state of Texas. Please speak with your high school counselor for pathways to completing this requirement. Students must be 18 years old to participate. Fees are associated with the 2 year Firefighter program. Fees include rental of bunker gear and other equipment required for the program.

**Practicum in Law, Public Safety, Corrections, and Security (CT1122) 2 credits (state)** **GPA Level 2**

Grade Level(s): 11-12 Service ID: 13030100

Prerequisite(s): Two or more Law, Public Safety, Corrections, and Security courses in a sequence.

Notes: Personal transportation required. Limited Seating Course.

The practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. This practicum may be paid or non-paid. This is for the serious student who wants to focus on a specific career interest. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

## MANUFACTURING

### **Welding I (CT1203) 2 credits (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13032300

Prerequisite(s):

Notes: Located at Atascocita HS.

Rapid advances in technology have created new career opportunities and demands in many industries. Welding I provides the knowledge, skills, and technologies required for employment in metal technology systems. Students 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. The following course could lead to an industry certification. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

### **Welding II (CT1204) 2 credits (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13032400

Prerequisite(s): Welding I

Notes: Located at Atascocita HS.

Welding II builds on knowledge and skills developed in Welding. Students will develop advanced welding concepts and skills as they relate to personal and career development. This course integrates 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. The following course could lead to an industry certification. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

### **Practicum in Manufacturing (CT1230) 2 credits (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 13033000

Prerequisite(s): Introduction to Process Technology *and* Petrochemical Safety, Health, and Environment

Notes: Located at Summer Creek HS.

The Practicum in Manufacturing course is designed to give students supervised practical application of previously studied knowledge and skills. Focus is placed on planning, managing, and performing the processing of materials into intermediate or final products and technical support activities such as production planning and control. This is the final course in a pathway that can lead to degree programs that support employment in energy, oil and gas process and refining, and chemical manufacturing industries. This course requires fees associated with dual enrollment and acquiring personal protective equipment.

### **Robotics I (CT1404) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13037000

Prerequisite(s): Recommended: Architectural Design I *or* Engineering Design and Presentation

Notes:

In Robotics I, students will transfer academic skills to component designs in a project-based environment through implementation of the design process. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry.

**Robotics II (CT1406) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13037050

Prerequisite(s): Robotics I

Notes:

In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs.

## SCIENCE, TECHNOLOGY, ENGINEERING, & MATH

### **Principles of Applied Engineering (CT1400) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 13036200

Prerequisite(s):

Notes:

This course provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will use a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will have an understanding of the various fields and will be able to make informed decisions regarding a coherent sequence of subsequent courses. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.

### **Engineering Design and Presentation I (CT1408) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13036500

Prerequisite(s):

Notes:

This course provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will use a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will have an understanding of the various fields and will be able to make informed decisions regarding a coherent sequence of subsequent courses. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.

### **Principles of Physics (CT1402) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13037100

Prerequisite(s): One credit of high school science *and* Algebra II

Notes:

In Principles of Physics, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Various systems will be described in terms of space, time, energy, and matter. Students will study a variety of topics that include laws of motion, conservation of energy, momentum, electricity, magnetism, thermodynamics, and characteristics and behavior of waves. Students will apply physics concepts and perform laboratory experimentations for at least 40% of instructional time using safe practices.

### **Aeroscience I (CT1410) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13037200

Prerequisite(s): Biology, Chemistry, *or* Physics. Recommended, Engineering Design and Presentation I

Notes:

This course applies the principles of physics to design and launch rockets. This is a practical application of physics to help students develop an interest in science and engineering. The class helps broaden students' opportunities, and allow them to do things that they did not think they could do. Students begin to display an increased self-motivation, leadership, and an enthusiasm for science and engineering. The goal of the aerospace science class is to build a rocket that travels one mile high carrying a payload weighing one pound or less.

**Aeroscience II (CT1411) 1 credit (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 13037500

Prerequisite(s): Aeroscience I

Notes:

This course builds upon the knowledge and skills gained by students in the Aeroscience I course with increased project scope and expectations. Students continue to learn problem-solving skills, to complete a design and development project with these two success criteria: rocket on the pad by scheduled date and flight performance to achieve transonic velocity while staying under a 13,000-ft ceiling. This course also cultivates additional life skills such as teamwork, critical thinking, design and development, testing and analysis, and documentation.

**Practicum in Science, Technology, Engineering, and Mathematics (CT1412) 2 credits (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 13037400

Prerequisite(s): Two or more courses in a sequence.

Notes: Double blocked. Personal transportation required.

The practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. This practicum may be paid or non-paid. This is for the serious student who wants to focus on a specific area of engineering. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

## TRANSPORTATION, DISTRIBUTION, AND LOGISTICS

### **Automotive Basics (CT1500) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 13039550

Prerequisite(s):

Notes:

Automotive Basics includes knowledge of the basic major automotive systems and the theory and principles of the components that make up each system and how to service [diagnosing and serving] 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 diagnosis 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.

### **Automotive Technology I: Maintenance and Light Repair (CT1509) 2 credits (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13039600

Prerequisite(s): Automotive Basics

Notes:

Automotive services include knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. In Automotive Technology, students gain knowledge and skills in the repair, maintenance, and diagnosis 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 the theory of operation of automotive vehicle systems and associated repair practices using the NATEF curriculum. The following course could lead to an industry certification.

### **Collision Repair (CT1516) 2 credits (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13039800

Prerequisite(s): Automotive Basics

Notes: Located at KPHS.

Collision Repair services include knowledge of the processes, technologies, and materials used in the reconstruction and alteration of vehicles. This course is designed to teach the concepts and theory of systems related to automotive collision repair and refinishing. The following course could lead to an industry certification.

### **Automotive Technology II: Automotive Services (CT1510) 2 credits (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13039700

Prerequisite(s): Automotive Technology I: Maintenance and Light Repair

Notes:

Automotive services include advanced knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. In Advanced Automotive Technology, students gain knowledge and skills in the repair, maintenance, and diagnosis 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 the theory of operation of automotive vehicle systems and associated repair practices. Students are prepared for the ASE certification test. Transportation required for students participating in offsite AYES Program or Co-Op. This course may be an articulated course. The following course could lead to an industry certification.

**Aviation Honors Ground School (5855) credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: N1304675

Prerequisite(s): AS200 and 2 years of JROTC

Notes:

AS500 Aviation Ground School provides an extensive study of flight related topics; it is a stand-alone course for 3rd and 4th year cadets only. For students interested in becoming professional pilots, this course will fully prepare them to pass the Federal Aviation Administration (FAA) Private Pilot Aeronautical Knowledge written exam. Course content includes aerodynamics, aircraft systems, airplane performance, meteorological theory, radio communications, cross country flight planning and navigation, aeronautical charts and airspace, airport operations, air traffic control services, safety of flight, aeronautical decision making and FAA regulations. LE400 Principles of Management: This course provides exposure to the fundamentals of management, drill and ceremonies.

**Introduction to Aerospace and Aviation (CT1505) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: N1304672

Prerequisite(s): Recommended: Robotics II

Notes: Offered at AHS only.

The Introduction to Aerospace and Aviation course will provide the foundation for advanced exploration in the areas of professional pilot, aerospace engineering, and unmanned aircraft systems. Students will learn about the innovations and technological developments that have made today's aviation and aerospace industries possible.

**Introduction to Unmanned Aerial Vehicles (CT1504) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: N1304670

Prerequisite(s): Recommended: Robotics II

Notes: Offered at AHS only.

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.

**Paint and Refinishing (CT1517) 2 credits (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13039900

Prerequisite(s): Collision Repair

Notes: Located at KPHS.

Paint and Refinishing services include advanced knowledge of the processes, technologies, and materials used in the reconstruction and alteration of vehicles. This course is designed to teach the application of advanced technical skills and practices related to collision repair and refinishing. The following course could lead to an industry certification.

**Practicum in Transportation Systems (CT1523) 2 credits (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 13040450

Prerequisite(s):

Notes:

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 work based.

## CTE STUDENT LEADERSHIP AMBASSADOR ACADEMY

### **Principles of CTE Student Leadership Ambassadors (CT1710) 1 credit (state)** GPA Level 2

Grade Level(s): 10-11

Service ID: 12701500

Prerequisite(s): Recommended: Any CTE course.

Notes: A \$15 course fee applies.

Students selected to serve as CTE Student Ambassadors will have the opportunity to develop their personal employability skills, influence the direction of CTE programs district wide, build lasting relationships with peers, and apply for unique CTE scholarships.

### **CTE Student Leadership Ambassadors (CT1720) 1 credit (state)** GPA Level 2

Grade Level(s): 11-12

Service ID: 12701510

Prerequisite(s): Recommended: Principles of CTE Student Leadership

Notes: A \$15 course fee applies. Limited Seating Course.

Students selected to serve as CTE Student Ambassadors will have the opportunity to develop their personal employability skills, influence the direction of CTE programs district wide, build lasting relationships with peers, and apply for unique CTE scholarships. These students will assist in vertically aligning feeder pattern middle & elementary schools with information, demonstrations, and opportunities based in CTE.

### **CTE Student Leadership Ambassadors Internship (CT1730) 1 credit (state)** GPA Level 2

Grade Level(s): 12

Service ID: 12701520

Prerequisite(s): CTE Student Leadership Ambassadors

Notes: A \$15 course fee applies. Limited Seating Course.

Students selected to serve as CTE Student Ambassadors will have the opportunity to develop their personal employability skills, influence the direction of CTE programs district wide, build lasting relationships with peers, and apply for unique CTE scholarships. This course prepares students not only for active participation in school but also in their community. Students solve relevant and current school and community issues by working collaboratively and independently on high-level, real-world tasks such as project proposals, portfolios, and presentations.

## T-STEM ACADEMY

### **Introduction to Engineering Design (PLTW) (CT1800) 1 credit (state)**

GPA Level 2

Grade Level(s): 9-10

Service ID: N1303747

Prerequisite(s):

Notes: Located at HHS.

In this course, 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. This is the first course in the T-STEM Academy and helps students decide in which area of the Academy they would like to focus.

### **TSTEM Principles of Applied Engineering (PLTW) (CT1802) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-11

Service ID: 13036200

Prerequisite(s): Introduction to Engineering Design

Notes: Located at HHS.

Using a rigorous curriculum from Project Lead the Way, this course provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will use a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will have an understanding of the various fields and will be able to make informed decisions regarding a coherent sequence of subsequent courses. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.

### **Principles of Biosciences (CT1820) 1 credit (state)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 13036300

Prerequisite(s):

Notes: Located at HHS.

This course is a strong reinforcement of Biology content that provides an overview of biotechnology, bioengineering, and related fields. Topics include genetics, cell structure, proteins, nucleic acids, and the impact of immunological events in biotechnology. Students will further study the increasingly important agricultural, environmental, economic, and political roles of bioenergy and biological remediation; the roles of nanoscience and nanotechnology in biotechnology medical research; and future trends in biological science and biotechnology.

### **TSTEM Engineering Design and Problem Solving (CT1803) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13037300

Prerequisite(s): Introduction to Engineering Design

Notes: Located at HHS.

Students will develop the creative process of solving problems by identifying needs and then devising solutions. The solution may be a product, technique, structure, or process depending on the problem. Science aims to understand the natural world, while engineering seeks to shape this world to meet human needs and wants. Engineering design takes into consideration limiting factors or "design under constraint." Various engineering disciplines address a broad spectrum of design problems using specific concepts from the sciences and mathematics to derive a solution.

**Biotechnology I (CT1830) 1 credit (state)**

GPA Level 2

Grade Level(s): 11-12

Service ID: 13036400

Prerequisite(s): Biology, Recommended: Principles of Biosciences

Notes: Located at HHS.

In this course, students will apply advanced academic knowledge and skills to the emerging fields of biotechnology such as agricultural, medical regulatory, and forensics. Students will have the opportunity to use sophisticated laboratory equipment, perform statistical analysis, and practice quality-control techniques. Students will conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Biotechnology I will study a variety of topics that include structures and functions of cells, nucleic acids, proteins, and genetics.

**TSTEM Practicum in Science, Technology, Engineering, and Mathematics (CT1806) 2 credits (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 13037400

Prerequisite(s): Two TSTEM or more courses in a sequence.

Notes: Located at HHS. Double blocked.

The practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. This practicum may be paid or non-paid. This is for the serious student who wants to focus on a specific area of engineering. Practicum courses are reserved for students who have completed a sequence of courses leading up to the practicum and who have the skills and foundation to be successful in a professional setting.

**TSTEM Scientific Research and Design I (CT1815) 1 credit (state)**

GPA Level 2

Grade Level(s): 12

Service ID: 13037200

Prerequisite(s):

Notes: Located at HHS. This course satisfies a science credit requirement for students on the Foundation High School Program.

Scientific Research and Design is a project based applied science course designed to provide continuing study in various fields of science. Knowledge from previous science classes will be expanded and applied to problem solving, experimental design, engineering, art, and other topics of student interest. The course has the components of rigorous scientific and engineering concepts such as problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. These components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education. Students must meet the 40% laboratory and fieldwork requirement.

## AVID

### **AVID I (4481) 1 credit (state)**

GPA Level 2

Grade Level(s): 9

Service ID: N1290001

Prerequisite(s): Recommended, 8<sup>th</sup> grade AVID

Notes:

The AVID 1 Elective class accelerates students into more rigorous course selections. Students are enrolled in a college preparatory sequence with a minimum of one advanced level course and must be challenged to move beyond previous levels of achievement. In the elective section of AVID, students receive the academic and motivational support to succeed by a trained AVID teacher. During the AVID class, students are coached by college tutors. The 9th grade AVID Elective course will serve as a review of the AVID philosophy and strategies. Students will work on academic and personal goals and communication, adjusting to the high school setting. Students will increase their awareness of their personal contributions to their learning as well as their involvement in their school and community. There is an emphasis on analytical writing, focusing on personal goals and thesis writing. Students will work in collaborative settings, learning how to participate in collegial discussions and use sources to support their ideas and opinions. Students will prepare for and participate in college entrance and placement exams while refining study skills and test-taking, note-taking, and research techniques. They will take an active role in field trips and guest-speaker preparations and presentations. Their college research will include financial topics and building their knowledge of colleges and careers of interest. AVID is available to Humble ISD students in sixth through twelfth grade, depending on acceptance into the program. All AVID students are required to enroll in advanced academic courses.

### **AVID II (4482) 1 credit (state)**

GPA Level 2

Grade Level(s): 10

Service ID: N1290002

Prerequisite(s): Recommended, AVID I

Notes:

The AVID 2 Elective class accelerates students into more rigorous course selections. Second year students are enrolled in a college preparatory sequence including the elective section of AVID where they receive the academic and motivational support to succeed by a trained AVID teacher. During the AVID class, students are coached by college tutors. During the 10th grade AVID Elective course, students will refine the AVID strategies to meet their independent needs and learning styles. Students will continue to refine and adjust their academic learning plans and goals, increasing awareness of their actions and behaviors. As students increase their rigorous course load and school/community involvement, they will refine their time-management and study skills accordingly. Students will expand their writing portfolio to include analyzing prompts, supporting arguments and claims, character analysis, and detailed reflections. Students will also analyze various documents in order to participate in collaborative discussions and develop leadership skills in those settings. Students will expand their vocabulary use, continuing to prepare for college entrance exams. Text analysis will focus on specific strategies to understand complex texts. Lastly, students will narrow down their colleges and careers of interest based on their personal interests and goals. AVID is available to Humble ISD students in sixth through twelfth grade, depending on acceptance into the program. All AVID students are required to enroll in advanced academic courses.

**AVID III (4483) 1 credit (state)**

GPA Level 2

Grade Level(s): 11

Service ID: N1290030

Prerequisite(s): Recommended, AVID II

Notes:

The AVID 3 Elective class accelerates students into more rigorous course selections. Third year students are enrolled in a college preparatory sequence including the elective section of AVID where they receive the academic and motivational support to succeed by a trained AVID teacher. During the AVID class, students are coached by college tutors. The 11th grade AVID Elective course is the first part in a junior/senior seminar course that focuses on writing and critical thinking expected of first- and second-year college students. In addition to the academic focus of the AVID seminar, there are college-bound activities, methodologies, and tasks that should be undertaken during the junior year to support students when they apply to four-year universities and confirm their postsecondary plans. AVID is available to Humble ISD students in sixth through twelfth grade, depending on acceptance into the program. All AVID students are required to enroll in advanced academic courses.

**AVID IV (4484) 1 credit (state)**

GPA Level 2

Grade Level(s): 12

Service ID: N1290033

Prerequisite(s): Recommended, AVID III

Notes:

The AVID 4 Elective class accelerates students into more rigorous course selections. Fourth year students are enrolled in a college preparatory sequence including the elective section of AVID where they receive the academic and motivational support to succeed by a trained AVID teacher. During the AVID class, students are coached by college tutors. The 12th grade AVID Elective course is the second part in a junior/senior seminar course that focuses on the writing and critical thinking expected of first- and second-year college students. Students will complete a final research essay project with research skills gained in their junior year in AVID. In addition to the academic focus of the AVID senior seminar, there are college-bound activities, methodologies, and tasks that should be achieved during the senior year that support students as they apply to four-year universities and confirm their postsecondary plans; this includes the application process for colleges, scholarships, and financial aid. All AVID seniors are required to develop and present a portfolio representing their years of work in the AVID program, as well as complete the requirements for the seminar course. AVID is available to Humble ISD students in sixth through twelfth grade, depending on acceptance into the program. All AVID students are required to enroll in advanced academic courses.

## LOCAL ELECTIVES

### **School Service Volunteer (0088-0097) ½ - 1 credit (local)**

GPA Level 2

Grade Level(s): 10-12

Service ID: 85000004

Prerequisite(s):

Notes:

Office aide positions are available in various offices. A school service volunteer works in an office performing duties such as filing, taking phone messages, and delivering information to teachers and students. A student must be willing to work in any area of the school. School service volunteers are graded and the grade reflects how well the student has handled assigned responsibilities. Students may be subject to approval for this position. This course is for local credit only and will not fulfill State graduation requirements.

### **English as a Second Language Academic Support (1103) 1 credit (local)**

GPA Level 2

Grade Level(s): 9-12

Service ID: 84000001

Prerequisite(s): Identified as English Learners (EL) by Language Proficiency Assessment Committee (LPAC)

Notes:

Students who are identified as English Learners need English as a Second Language Tutorial as a supportive course. The primary goal of this course is to support English Learners in becoming proficient in the English language, including reading, speaking, listening and writing. The course helps English Learners to develop the skills needed for the successful mastery of requirements in the Texas Administrative Code and District objectives in all English programs. This course is for local credit only and will not fulfill state graduation requirements. All ESL placement decisions are made for individual students by the Language Proficiency Assessment Committee (LPAC). The LPAC is composed of a certified ESL teacher, an administrator and a parent of an active English Learner.

### **Peer Tutoring for Students with Disabilities I (448100) 1 - 2 credits (local)**

GPA Level 2

Grade Level(s): 11-12

Service ID: N1290203

Prerequisite(s):

Notes:

This course is for selected junior and senior students to serve as tutors and advocates for students with disabilities who are enrolled in special education individualized studies classes. The peer tutors are shown how to instruct peers with special challenges in various activities that may occur in the classroom or in the community.

### **Peer Tutoring for Students with Disabilities II (448200) 1/2 - 1 credit (local)**

GPA Level 2

Grade Level(s): 12

Service ID: N1290204

Prerequisite(s): Peer Tutoring I

Notes:

Students in Peer Tutoring II will learn about career opportunities in working with the special needs population. While working directly with students at job sites, they will gain experience in working and training others and collecting and analyzing data.

**Peer Facilitation Restorative I (PAAL 1) (4410) 1 credit (local)**

**GPA Level 2**

Grade Level(s): 10-12

Service ID: N1290005

Prerequisite(s): Recommendation from a Teacher or Counselor, Application

Notes:

Peer facilitators help resolve everyday conflicts among classmates by learning active listening, facilitation, and problem-solving skills, and is a common form of restorative practices. In peer mediation, a trained youth acts as neutral facilitator helping parties in conflict to understand the root causes of their dispute and to ultimately agree on a plan for resolving the conflict. Each individual restorative circle consists of six distinct stages: agree to storytelling and gathering points of view, focus on interests and needs, create win-win solutions, evaluate, and create an agreement. The peer facilitation program empowers individuals to prevent, resolve, and transform violent and nonviolent conflict by developing the values, attitudes, skills and knowledge to envision alternative options for action towards building peace.

**Peer Facilitation Restorative II (PAAL 2) (4110) 1 credit (local)**

**GPA Level 2**

Grade Level(s): 10-12

Service ID: N1290006

Prerequisite(s): Recommendation from a Teacher or Counselor, Application

Notes:

Peer facilitators help resolve everyday conflicts among classmates by learning active listening, facilitation, and problem-solving skills, and is a common form of restorative practices. In peer mediation, a trained youth acts as neutral facilitator helping parties in conflict to understand the root causes of their dispute and to ultimately agree on a plan for resolving the conflict. Each individual restorative circle consists of six distinct stages: agree to storytelling and gathering points of view, focus on interests and needs, create win-win solutions, evaluate, and create an agreement. The peer facilitation program empowers individuals to prevent, resolve, and transform violent and nonviolent conflict by developing the values, attitudes, skills and knowledge to envision alternative options for action towards building peace.

## **COMPLIANCE STATEMENT**

It is the policy of Humble Independent School District to comply fully with the nondiscrimination provisions of all Federal and State laws and regulations by assuring that no person shall be discriminated against on the basis of sex, disability, race, color, age or national origin in its educational and vocational programs, activities, or employment as required by Title IX, Title VI, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act.

This notice is provided as required by Title II of the Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973. Questions, complaints, or requests for additional information regarding the ADA and Section 504 may be forwarded to the designated ADA and Section 504 compliance coordinator.

El Distrito de Humble cumple plenamente con las provisiones de leyes y regulaciones federales y estatales de no discrimina asegurando que no discrimina ni por sexo, incapacidad, raza, color, edad ni origen nacional en sus programas educacionales y vocacionales, actividades, ni empleo como requerido por Título IX, Título VI y la Sección 504 de la Acta de Rehabilitación y la Acta de Americanos Incapacitados (ADA).

Esta noticia se provee según el Título II de la Acta de Americanos Incapacitados (ADA) de 1990 y la Sección 504 de la Acta de Rehabilitación de 1973. Preguntas, quejas o información acerca de ADA o la sección 504 pueden hacer al/la coordinador/a del distrito.

### **Section 504 and ADA: Programs & Services**

Terry Perkins, Deputy Superintendent  
10203 Birchridge Drive  
Humble, Texas 77338  
281-641-8005

### **ADA: Facilities**

Nolan Correa  
Associate Superintendent, Operational  
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