

# 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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<p><b><u>Atascocita High School</u></b>            13300 Will Clayton Parkway            Humble, TX 77346            281-641-7500</p> <p><u>Principal</u>            Bill Daniels</p>	<p><b><u>Humble High School</u></b>            1700 Wilson Road            Humble, TX 77338            281-641-6300</p> <p><u>Principal</u>            Donna Ullrich</p>
<p><b><u>Kingwood Park High School</u></b>            4015 Woodland Hills            Kingwood, TX 77339            281-641-6600</p> <p><u>Principal</u>            Lisa Drabing</p>	<p><b><u>Kingwood High School</u></b>            2701 Kingwood Drive            Kingwood, TX 77339            281-641-6900</p> <p><u>Principal</u>            Dr. Michael Nasra</p>
<p><b><u>Quest Early College High School</u></b>            1700 Wilson Road, Suite 3100            Humble, TX 77338            832-775-0866</p> <p><u>Principal</u>            Terri Osborne</p>	<p><b><u>Summer Creek High School</u></b>            14000 Weckford Blvd.            Houston, TX 77044            281-641-5400</p> <p><u>Principal</u>            Brent McDonald</p>

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## PLANNING FOR YOUR FUTURE

The Humble ISD Planning Guide is designed to provide you, our students and parents, information to assist you in planning a course of study during middle school and high school. The decisions you make along with the course of study you pursue, will affect your post-secondary plans, including college and career readiness. 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 each year and can be revised as necessary. We accomplish this goal by encouraging students to work with their parents, teachers, and counselors to explore interests and careers and create a plan using the Choices 360 program at [www.choices360.com](http://www.choices360.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 Choices 360 websites frequently. At the Choices 360 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 [www.choices360.com](http://www.choices360.com). A motivated student who chooses a pathway is a more focused, achievement-oriented student.

Portfolio name: **humble+student ID** (without any spaces, all lowercase, ie. humble123456

Password: **student ID** (6 digits)

- Professional school counselors provide information sessions and guidance at each secondary campus throughout the year. We encourage you to participate in these activities to the greatest extent possible 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:
  - Texas Higher Education Coordinating Board  
1-800-242-3062 or [www.thecb.state.tx.us](http://www.thecb.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/>
  - XAP Choices 360: [www.choices360.com](http://www.choices360.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.studentiad.ed.gov/sa/fafsa/estimate](http://www.studentiad.ed.gov/sa/fafsa/estimate)



★ ★ ★ ★ ★ ★ ★ ★ ★ ★

“Our goals can only be reached through a vehicle of a plan, in which we must fervently believe, and upon which we must vigorously act. There is no other route to success.”

~Pablo Picasso

★ ★ ★ ★ ★ ★ ★ ★ ★ ★



## ***Foundation High School Program***

Texas Education Code has one graduation plan called the Foundation High School Program (FHSP). This graduation program provides flexibility for high school students to pursue a course plan specific to their individual goals for life after high school. In Humble ISD all students will enter high school under the Distinguished Level of Achievement Plan with an Endorsement which will make them eligible for automatic admission into state universities if they graduate in the top 10% of their class\*.

All students must choose at least one of 5 endorsement plans described on subsequent pages. These endorsements will help create a personalized learning plan in line with a student's career interests and goals. **Graduation plans may be changed at any time with parent approval by working through your campus counselor.**

\*The University of Texas has more stringent admissions requirements.

## **Hard work pays off!! You may qualify for the TEXAS Grant!**

The TEXAS Grant, in combination with other aid, will pay your tuition and fees at Texas' public colleges and universities. Find out more information about the TEXAS Grant at [www.collegefortexans.com](http://www.collegefortexans.com). Are you eligible? Yes, if you...

- complete the **Foundation High School Program with an endorsement**,
- are a Texas resident,
- have not been convicted of a felony or a crime involving a controlled substance,
- complete and submit the Free Application for Federal Student Aid (FAFSA) and demonstrate financial need. Do this in January of your senior year.

## **We Have Choices!**

Plan an education and career path at [www.choices360.com](http://www.choices360.com)

**Humble ISD** is pleased to provide an education and career planning service for students. Choices 360 is an online programs that helps students explore education options, discover a wide variety of occupations, and make plans to achieve goals -- from school or from home!

A motivated student who chooses a pathway is a more focused, achievement-oriented student. This passion and enthusiasm can lead to better study habits, better grades and greater course involvement.

Choices 30 products help students build effective plans quickly and easily with the Career Plan Builder in Your Portfolio. Students can save as many plans as they desire while exploring all the options and finding the right career path.

These programs provide effortless access to detailed information about more than 7,000 colleges, technical schools and graduate schools. There are even tools to help build impressive resumes, practice job search and interviewing skills, and much more.

To take advantage of everything Choices 360 has to offer:

1. Go to [www.choices360.com](http://www.choices360.com)
2. In the Student Sign In section, enter **humble + student ID** (without any spaces, all lowercase; ie. humble123456)
3. The password is your **student ID** (6 digits)



## 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 <b>(EOC)</b>	Algebra I <b>(EOC)</b>	Biology <b>(EOC)</b>	W. Geo or W. Hist	Foreign Language 2.0 credits		
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 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>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 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 Science	Gov't/Eco	Fine Arts 1.0		
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 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

German

Latin

American Sign Language

\* LOTE classes may be available as On-level, Pre-AP, 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>English 4.0</b>	<b>Math 4.0</b>	<b>Science 4.0</b>	<b>Soc Studies 5.0</b>	<b>Required 4.0</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 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	AP European History	Sociology
IB World Topics	AP Introductory Psychology	Psychology
IB Psychology	Personal Dynamics	
History of Sports in the United States		

## 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 <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		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%.						

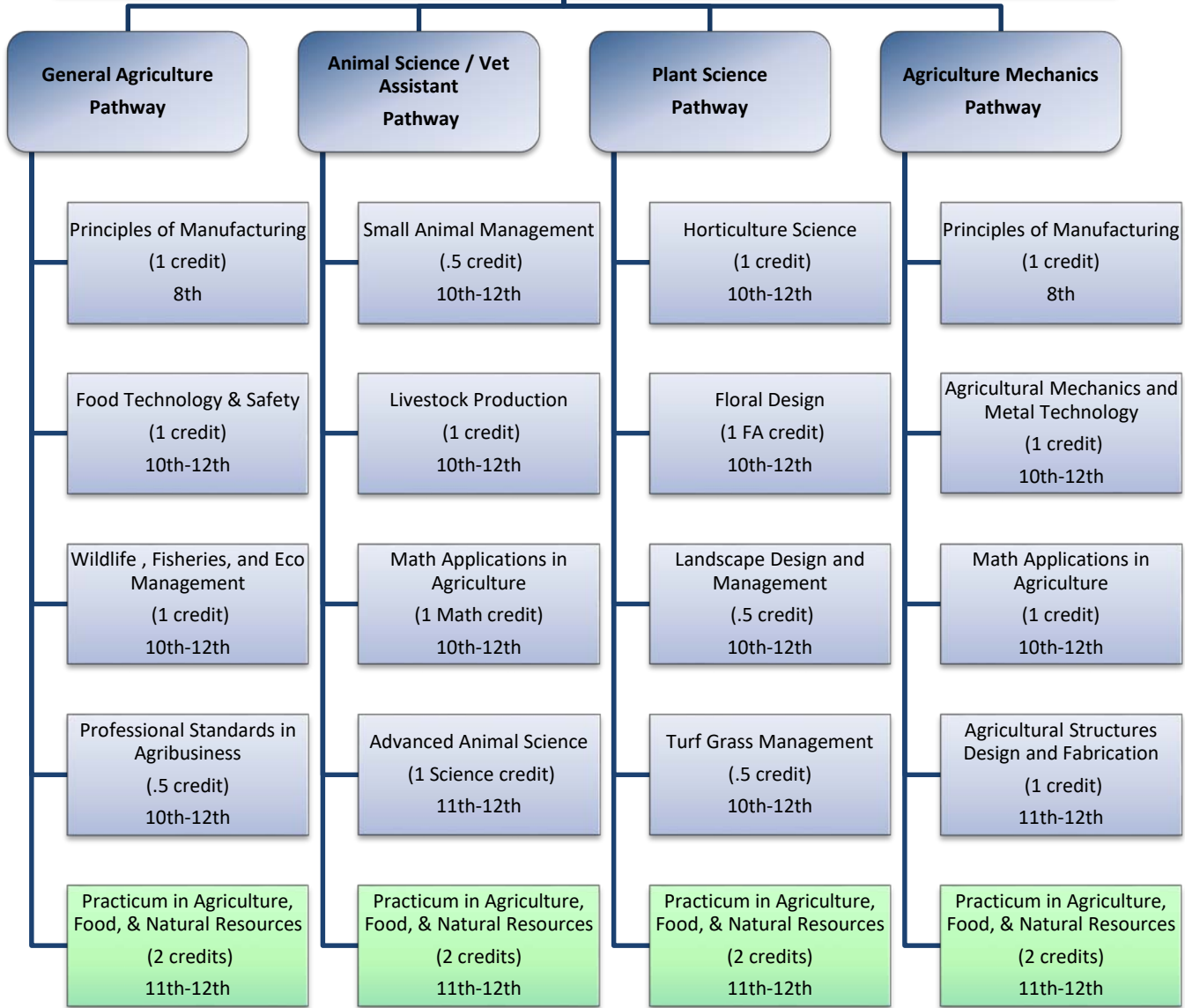
\*EOC indicates an **End of Course exam** required for graduation

# Agriculture, Food, and Natural Resources Cluster

*Business & Industry Endorsement*

Principles of Agriculture,  
Food, & Natural Resources  
(1 credit)  
9th-12th

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>      Professional Communications (.5 credit) 9<sup>th</sup>-12<sup>th</sup>  
*These three 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 Agriculture Cluster by successfully completing 4 or more credits from any combination of pathways above.

Indicates Limited Seating Course

Indicates Limited Seating Course

## Architecture & Construction Cluster

*Business & Industry Endorsement*

Principles of Architecture  
(1 credit)  
9th-12th

Principles of Construction  
(1 credit)  
9th-12th

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>      Professional Communications (.5 credit) 9<sup>th</sup>-12<sup>th</sup>

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

### Interior Design Pathway

Architectural Design I  
(1 credit)  
10th-12th

Interior Design I  
(1 credit)  
10th-12th

Interior Design II  
(2 credits)  
11th-12th

Wisnaker Practicum I  
(2 credits)  
11th-12th

### Architectural Design Pathway

Engineering Design & Presentation I  
(1 credit)  
10th-12th

Architectural Design I  
(1 credit)  
10th-12th

Architectural Design II  
(2 credits)  
11th-12th

Practicum in Architectural Design  
(2 credits)  
12th

### Construction Management Pathway

Principles of Manufacturing  
(1 credit)  
8th

Architectural Design I  
(1 credit)  
10th-12th

Construction Technology I  
(2 credit)  
10th-12th

Construction Technology II  
(2 credits)  
11th-12th

Practicum in Construction Technology  
(2 credits)  
12th

### Electrical Technology Pathway

Principles of Manufacturing  
(1 credit)  
8th

Construction Technology I  
(2 credit)  
10th-12th

Electrical Technology I  
(1 credit)  
10th-12th

Electrical Technology II  
(2 credit)  
11th-12th

Practicum in Construction Technology  
(2 credits)  
12th

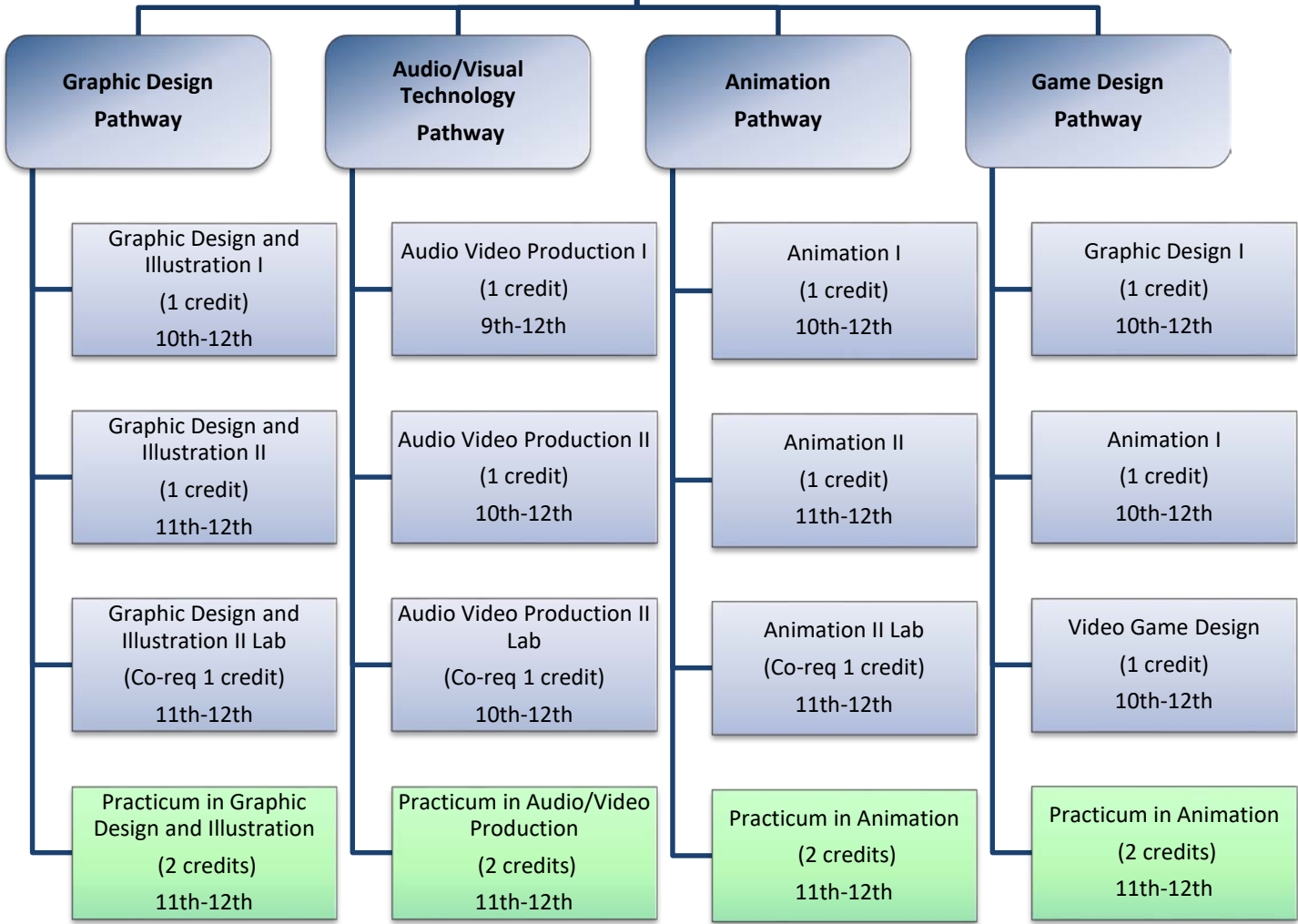
Students may earn the Business & Industry Endorsement in the Architecture & Construction Cluster by successfully completing 4 or more credits from any combination of pathways above.

Indicates Limited Seating Course

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

Principles of Arts, A/V, Tech, & Communication  
 (1 credit)  
 9th

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>      Professional Communications (.5 credit) 9<sup>th</sup>-12<sup>th</sup>  
*These three 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 Arts, A/V, & Communications Cluster by successfully completing 4 or more credits from any combination of pathways above.

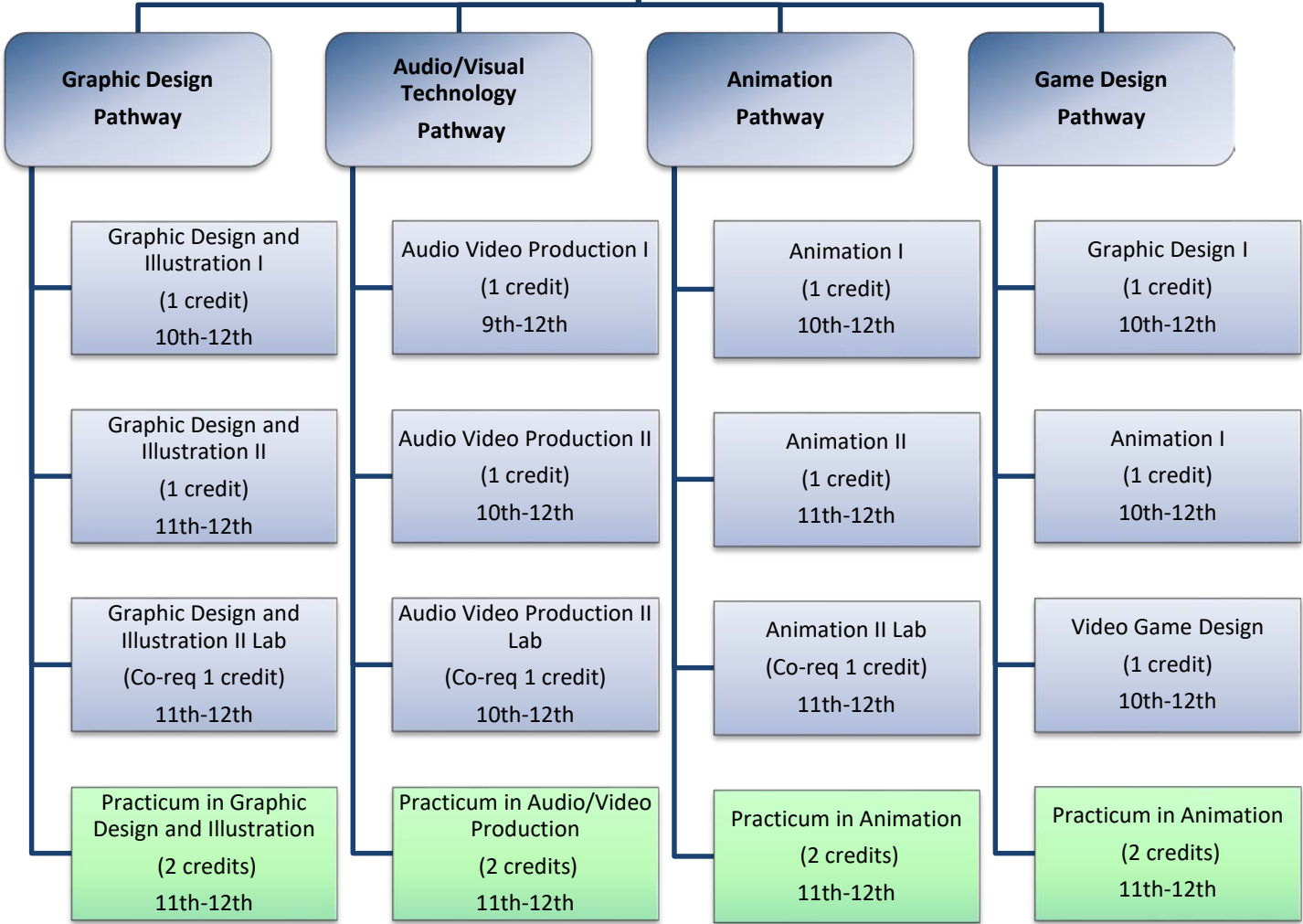


Indicates Limited Seating Course

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

Principles of Arts, A/V, Tech, & Communication  
 (1 credit)  
 9th

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>      Professional Communications (.5 credit) 9<sup>th</sup>-12<sup>th</sup>  
*These three 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 Arts, A/V, & Communications Cluster by successfully completing 4 or more credits from any combination of pathways above.

**Business Management and Administration Cluster**  
*Business & Industry Endorsement*

Principles of Business, Marketing, and Finance  
 (1 credit)  
 9th-11th

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>      Professional Communications (.5 credit) 9<sup>th</sup>-12<sup>th</sup>  
*These three courses count toward the above Endorsement and can be taken at any point in the sequence.*

**Business Management Pathway**

**Data Management Pathway**

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

Business Law  
 (1 credit)  
 11th-12th

Hotel Management  
 (1 credit)  
 10th-12th

Business English  
 (1 English credit)  
 12th

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

Money Matters  
 (1 credit)  
 9th-12th

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

Medical Terminology  
 (1 credit)  
 10th-12th

Medical Billing & Coding (BIM II)  
 (1 credit)  
 10th-12th

Business Lab (Co-req 1 credit)  
 10th-12th

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

Indicates Limited Seating Course

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

**Finance Cluster**  
*Business & Industry Endorsement*

Principles of Business,  
 Marketing, and Finance  
 (1 credit)  
 9th-11th

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>      Professional Communications (.5 credit) 9<sup>th</sup>-12<sup>th</sup>  
*These three courses count toward the above Endorsement and can be taken at any point in the sequence.*  
 Δnv

**Financial Business Pathway**

**Financial Mathematics Pathway**

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

Money Matters  
 (1 credit)  
 9th-12th

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

Financial Mathematics  
 ~Proposed~  
 (1 Math credit)  
 10th-12th

Accounting I  
 (1 credit)  
 10th-12th

Financial Analysis  
 (1 credit)  
 11th-12th

Accounting II  
 (1 credit)  
 11th-12th

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

Wisnaker Practicum I  
 (2 credits)  
 11th-12th

Wisnaker Practicum I  
 (2 credits)  
 11th-12th

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

Indicates Limited Seating Course

Indicates  
Limited Seating  
Course

## Hospitality & Tourism Cluster

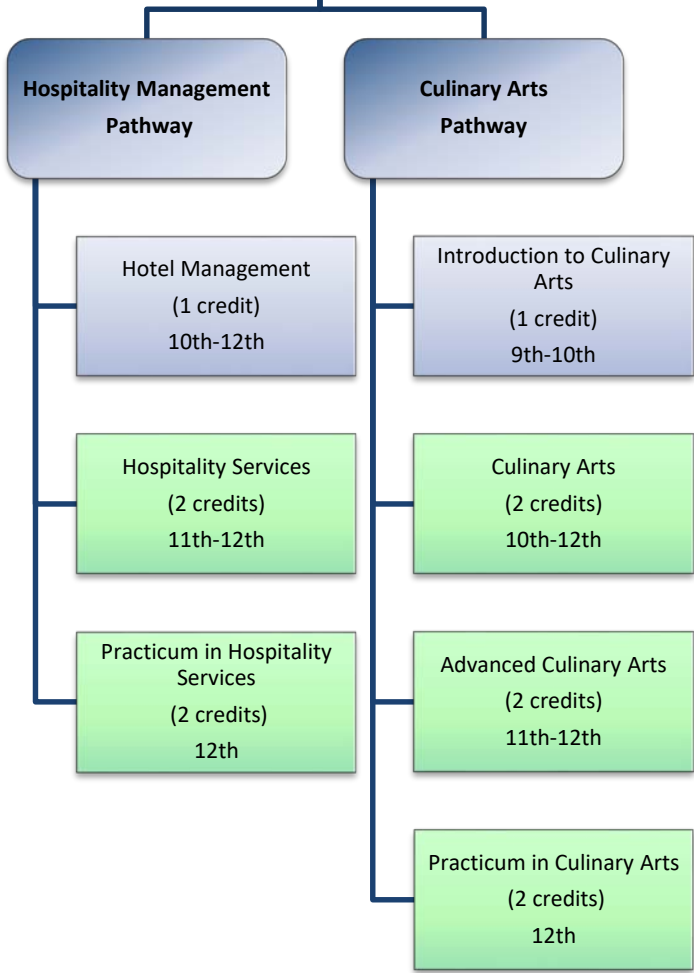
*Business & Industry Endorsement*

Principles of Hospitality and  
Tourism  
(1 credit)  
9th-11th

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>      Professional Communications (.5 credit) 9<sup>th</sup>-12<sup>th</sup>

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

**Anv**



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.

Indicates Limited Seating Course

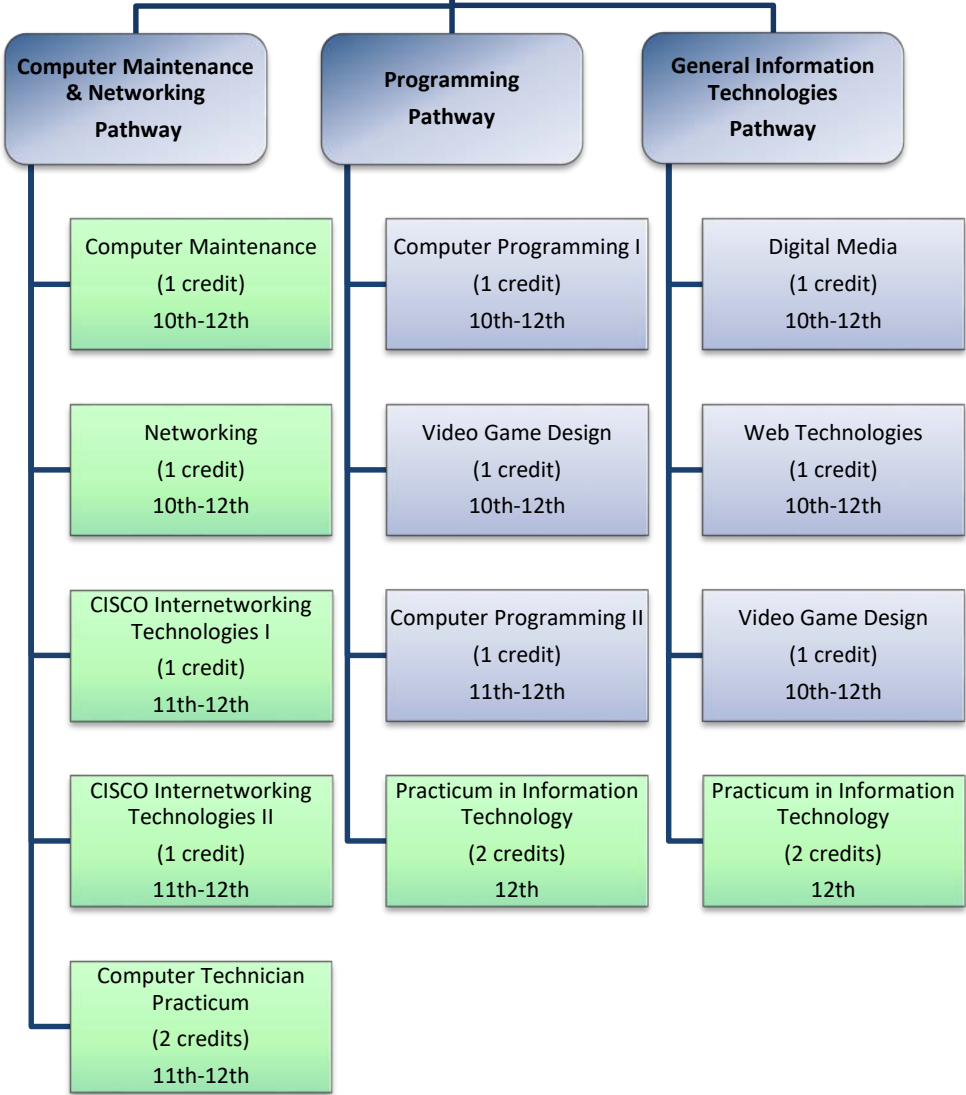
## Information Technology Cluster

*Business & Industry Endorsement*

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

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>      Professional Communications (.5 credit) 9<sup>th</sup>-12<sup>th</sup>

*These three 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*

Principles of  
Manufacturing  
(1 credit)  
8th

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>      Professional Communications (.5 credit) 9<sup>th</sup>-12<sup>th</sup>  
*These three courses count toward the above Endorsement and can be taken at any point in the sequence.*

**Industrial  
Manufacturing  
Pathway**

Welding I  
(2 credits)  
10th-12th

Welding II  
(2 credits)  
11th-12th

Wisnbaker Practicum I  
(2 credits)  
11th-12th

**Agricultural  
Manufacturing  
Pathway**

Principles of Agriculture,  
Food, & Natural Resources  
(1 credit)  
9th-12th

Principles of Architecture  
(1 credit)  
9th-12th

Agricultural Mechanics &  
Metal Technologies  
(1 credit)  
10th-12th

Wisnbaker Practicum I  
(2 credits)  
11th-12th

Students may earn the Business & Industry Endorsement in the Manufacturing cluster by successfully completing 4 or more credits.

**Marketing Cluster**  
*Business & Industry Endorsement*

Principles of Business,  
Marketing, & Finance  
(1 credit)  
9th-11th

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>      Professional Communications (.5 credit) 9<sup>th</sup>-12<sup>th</sup>  
*These three courses count toward the above Endorsement and can be taken at any point in the sequence.*

**General Marketing Pathway**

**Real Estate Marketing Pathway**

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

Advertising  
(.5 credit)  
9th-12th

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

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

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

Extended Practicum in Marketing  
(Co-req 1 credit)  
11th-12th

Money Matters  
(1 credit)  
9th-12th

Advertising  
(.5 credit)  
9th-12th

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

Real Estate Agent  
(1 credit)  
12th

Indicates Limited Seating Course

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



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

Automotive Basics  
(1 credit)  
9th-12th

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>	Professional Communications (.5 credit) 9 <sup>th</sup> -12 <sup>th</sup>
<i>These three courses count toward the above Endorsement and can be taken at any point in the sequence.</i>		
<b>Anv</b>		

**Automotive Tech  
Pathway**

**Automotive Collision  
Pathway**

Automotive Technology I:  
Maintenance & Light Repair  
(2 credits)  
10th-12th

Collision Repair  
(2 credits)  
10th-12th

Automotive Technology II:  
Automotive Service  
(2 credits)  
11th-12th

Paint & Refinishing  
(2 credits)  
11th-12th

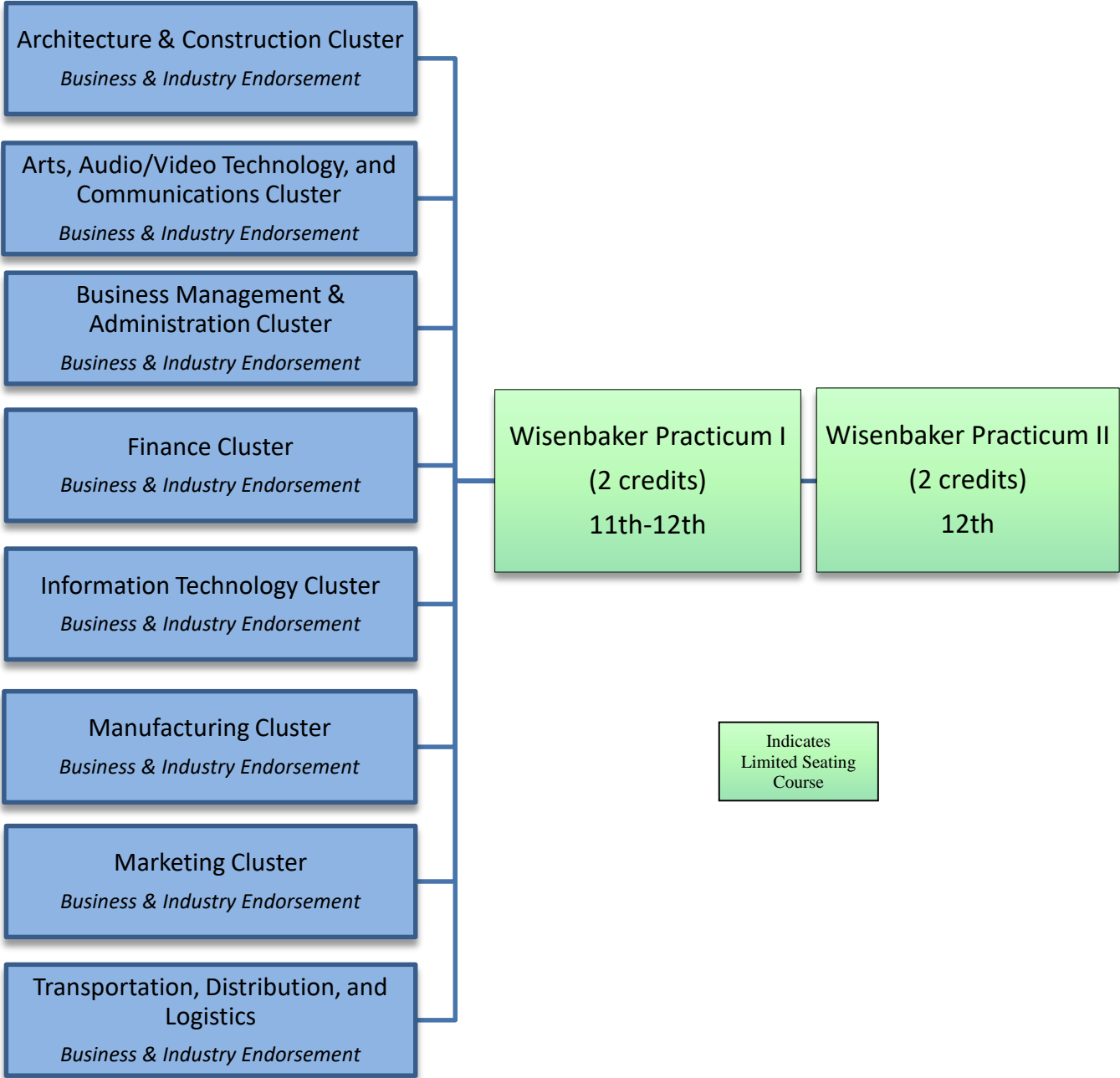
Practicum in Transportation  
Systems  
(2 credits)  
12th

Practicum in Transportation  
Systems  
(2 credits)  
12th

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.

**Career Development  
Practicum Option**  
*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 <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	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 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 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

Principles of Education & Training  
(1 credit)  
9th-10th

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>      Professional Communications (.5 credit) 9<sup>th</sup>-12<sup>th</sup>  
*These three courses count toward the above Endorsement and can be taken at any point in the sequence.*

**Education Pathway**

**Training Pathway**

Human Growth and Development  
(1 credit)  
10th-12th

Human Growth and Development  
(1 credit)  
10th-12th

Child Development  
(1 credit)  
10th-12th

Family and Community Service  
(1 credit)  
11th-12th

Instructional Practices in Education & Training  
(2 credits)  
11th-12th

Wisnebaker Practicum I  
(2 credits)  
11th-12th

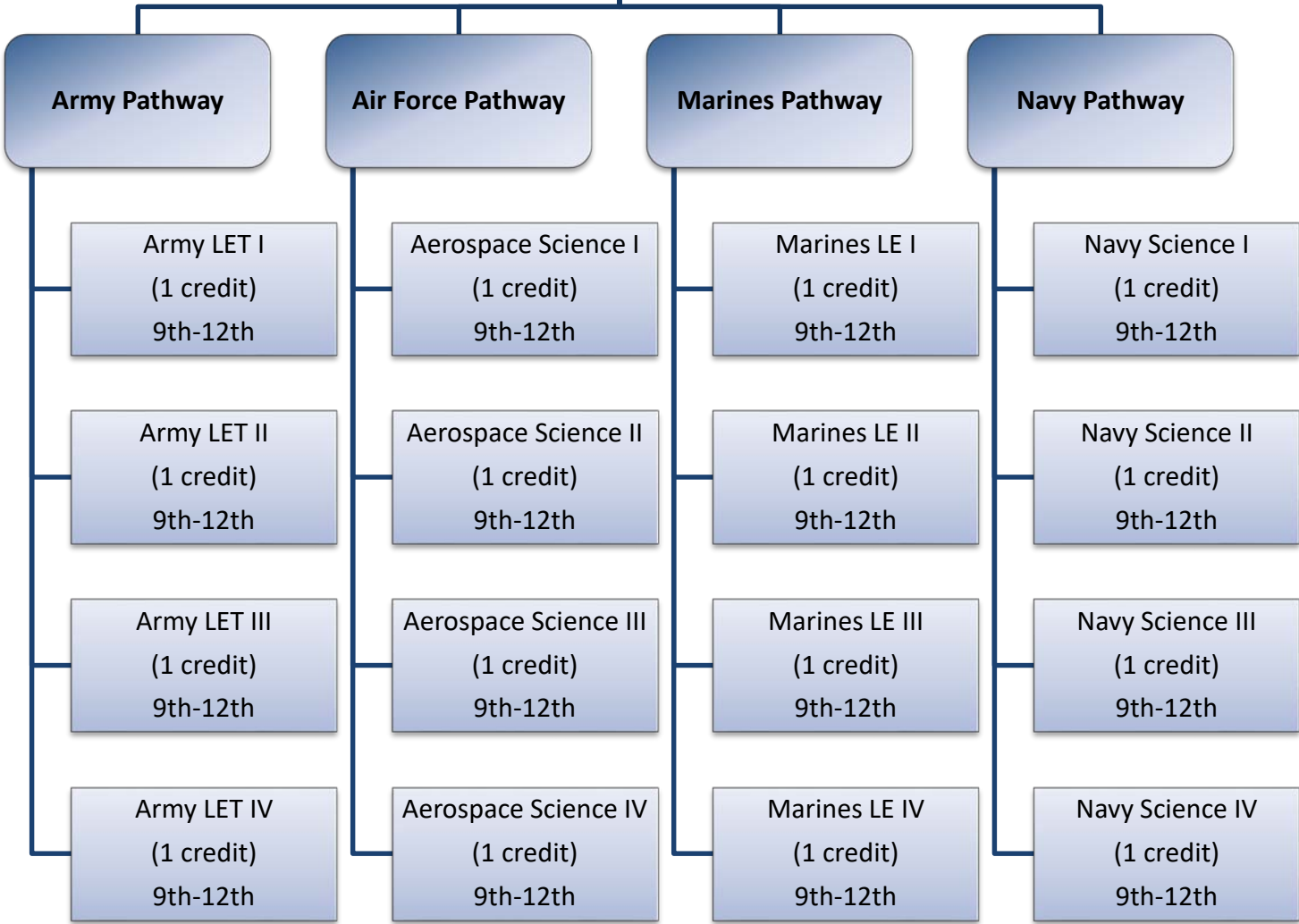
Practicum in Education and Training  
(2 credits)  
12th

Indicates Limited Seating Course

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.

**JROTC Option**  
*Public Service Endorsement*

JROTC

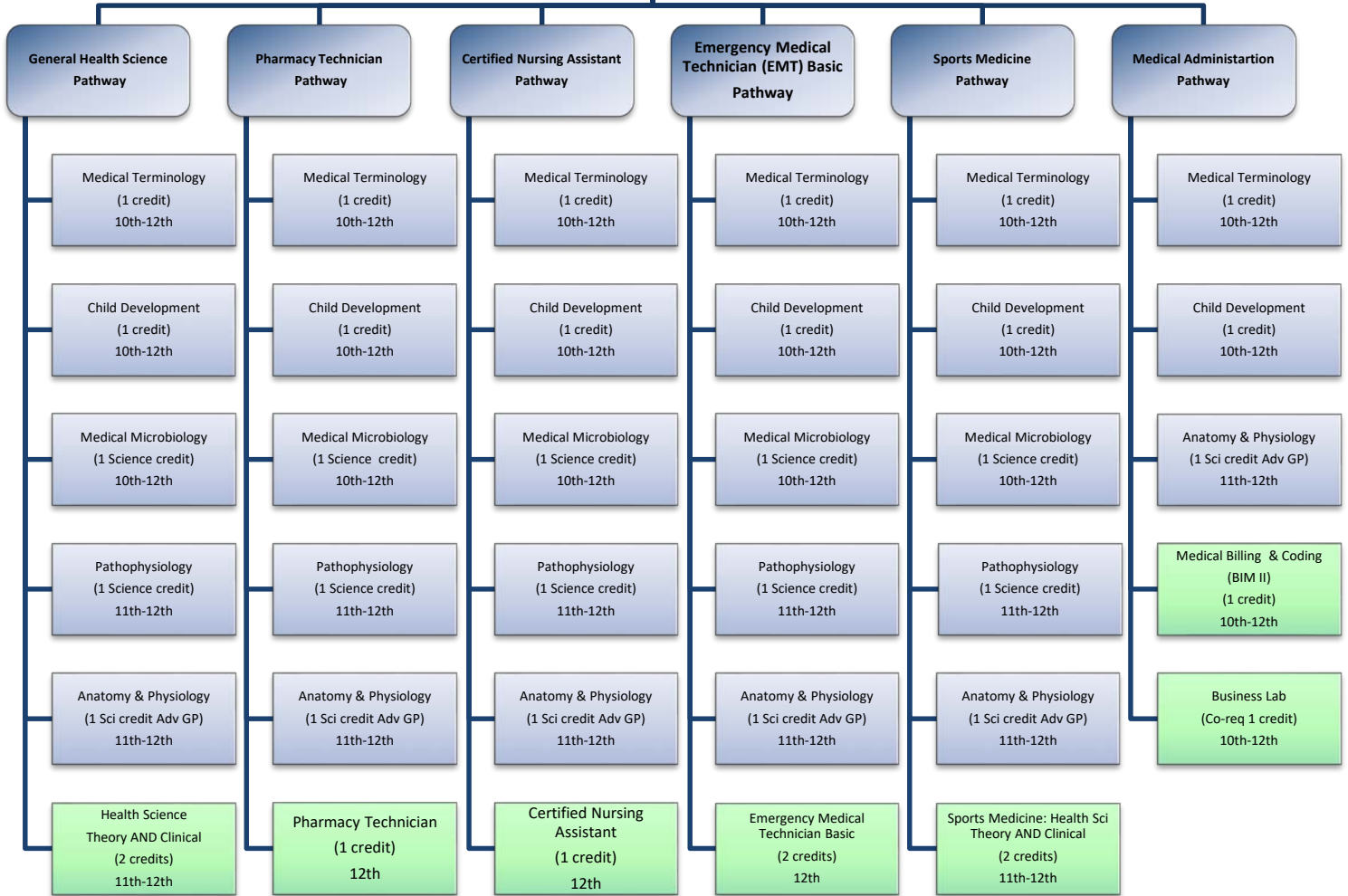


# Health Science Cluster

Public Service Endorsement

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

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>      Professional Communications (.5 credit) 9<sup>th</sup>-12<sup>th</sup>  
*These three courses count toward the above Endorsement and can be taken at any point in the sequence.*



Indicates Limited Seating Course

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.

**Human Services Cluster**  
Public Service Endorsement

Principles of Human Services  
(1 credit)  
9th-12th

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>      Professional Communications (.5 credit) 9<sup>th</sup>-12<sup>th</sup>  
*These three courses count toward the above Endorsement and can be taken at any point in the sequence.*

**Family & Community Service Pathway**

Interpersonal Studies  
(.5 credit)  
9th

Principles of Education and Training  
(1 credit)  
9th-10th

Family and Community Service  
(1 credit)  
11th-12th

Practicum in Human Services  
(2 credits)  
11th-12th

**Childcare Management Pathway**

Principles of Education and Training  
(1 credit)  
9th-10th

Child Development  
(1 credit)  
10th-12th

Child Guidance  
(2 credits)  
11th-12th

Practicum in Human Services  
(2 credits)  
11th-12th

**Cosmetology Pathway**

Cosmetology I  
(2 credits)  
11th

Cosmetology Design and Color Theory  
(Co-req 1 credit)  
11th

Cosmetology II  
(2 credits)  
12th

Cosmetology II Lab  
(Co-req 1 credit)  
12th

Indicates Limited Seating Course

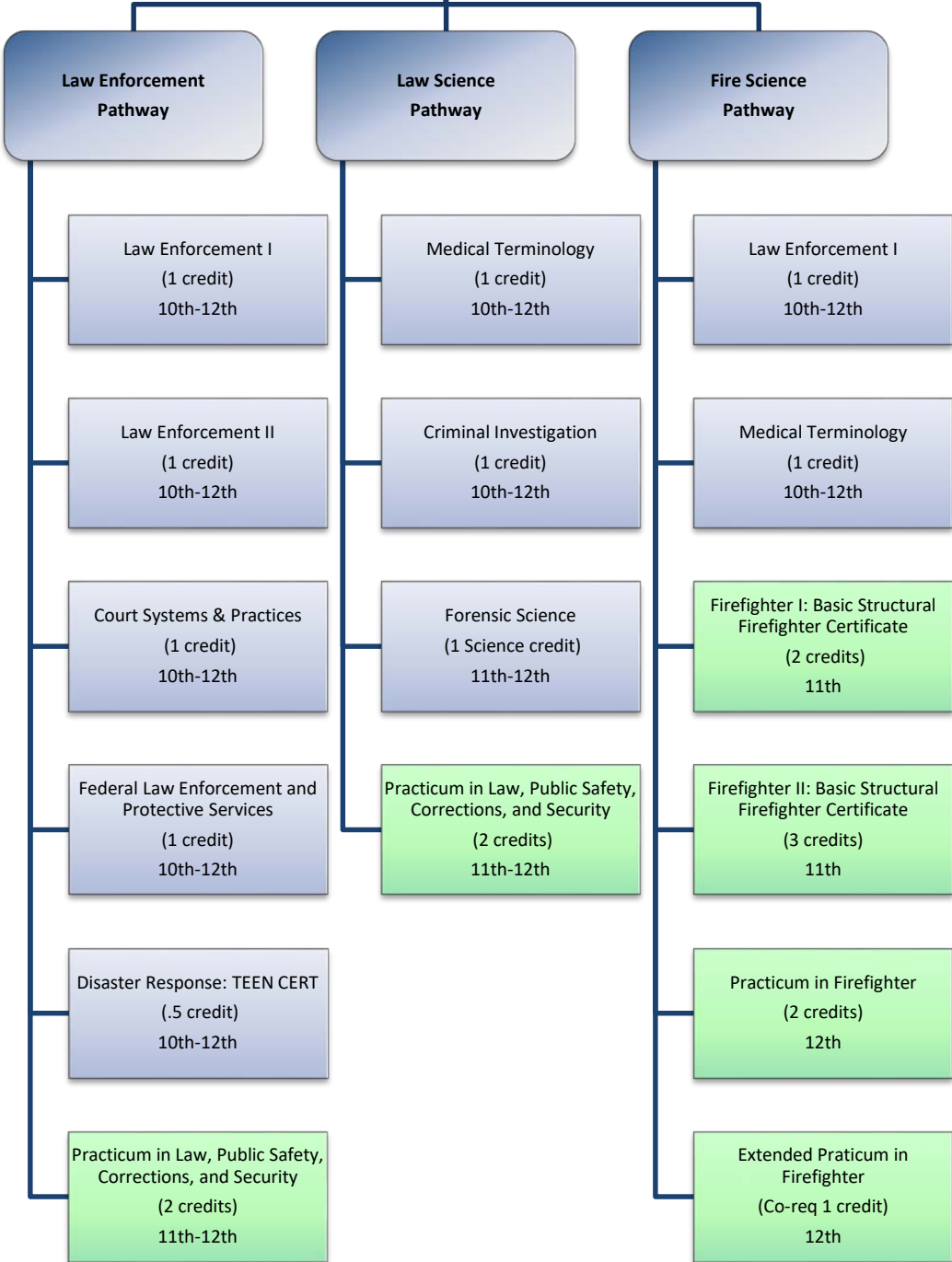
Students may earn the Public Service Endorsement in the Human Services cluster by successfully completing 4 or more credits from any combination of the pathways above.



**Law, Public Safety, Corrections, & Security Cluster**  
Public Service Endorsement

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

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>      Professional Communications (.5 credit) 9<sup>th</sup>-12<sup>th</sup>  
*These three courses count toward the above Endorsement and can be taken at any point in the sequence.*



Indicates Limited Seating Course

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.

## 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.

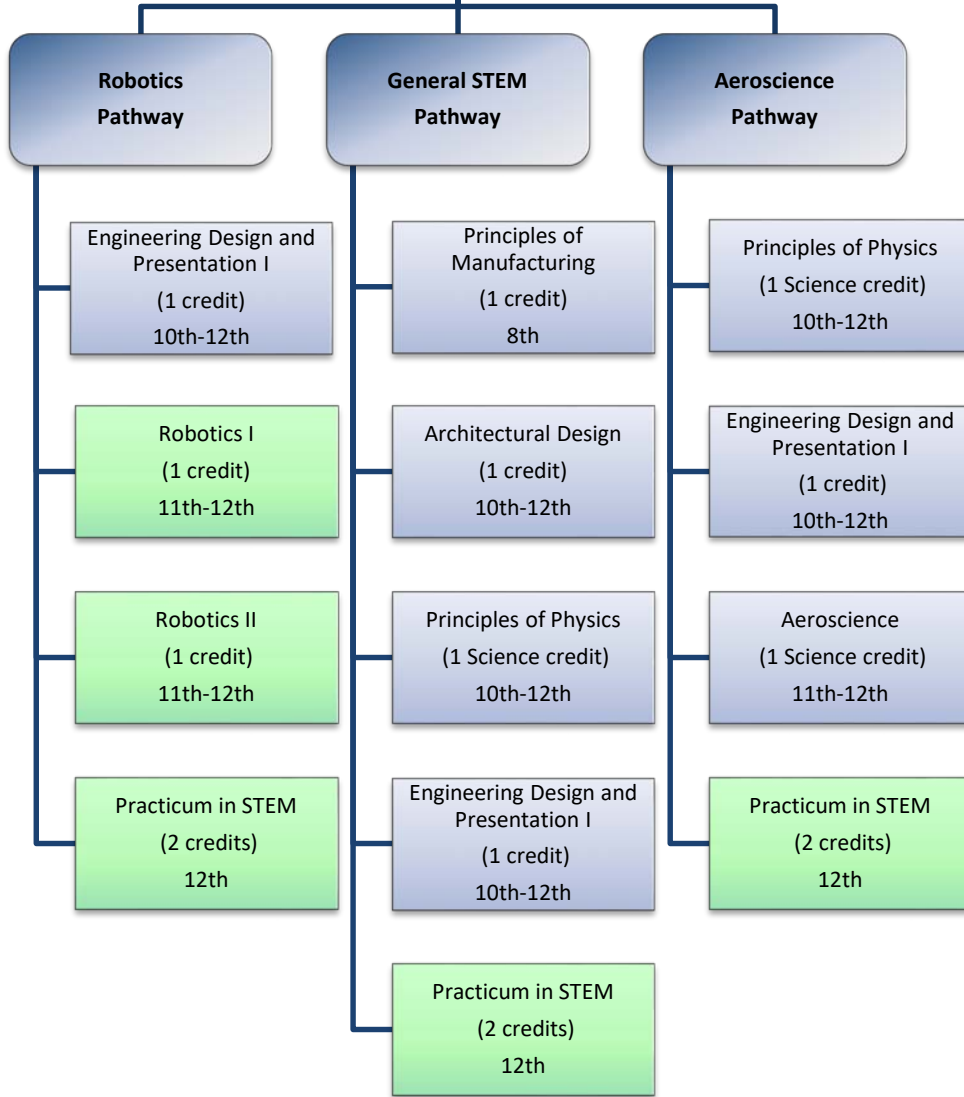
STEM Endorsement Graduation Requirements Engineering Cluster						
English	Math	Science	Social Studies	Required	Electives	Total Credits
English I <b>(EOC)</b>	Algebra I <b>(EOC)</b>	Biology <b>(EOC)</b>	W. Geo or W. Hist	Foreign Language 2.0		
English II <b>(EOC)</b>	Geometry	Chemistry	US History <b>(EOC)</b>	PE 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>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*

Principles of Applied  
Engineering  
(1 credit)  
9th-10th

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>      Professional Communications (.5 credit) 9<sup>th</sup>-12<sup>th</sup>  
*These three courses count toward the above Endorsement and can be taken at any point in the sequence.*



Indicates  
Limited Seating  
Course

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

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 Pre-AP  
Dual Credit Calculus AB  
Dual Credit Finite Math

Advanced 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 <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	Additional Math	2 Adv. 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 science 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 \*  
 Aerscience I\*  
 Aerscience 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

## 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.

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

Multi-Disciplinary Endorsement Graduation Requirements Core Course Option						
English	Math	Science	Social Studies	Required	Electives	Total Credits
English I (EOC)	Algebra I (EOC)	Biology (EOC)	W. Geography or W. History	Language 2.0 (LOTE or Computer Science)		
English II (EOC)	Geometry	Chemistry, OR Physics	US History (EOC)	PE 1.0		
English III	Additional. Math	Additional Science	Gov't/Eco	Fine Arts 1.0		
English IV	Additional Math	Additional Science	Additional Social Studies			
<b>English 4.0</b>	<b>Math 4.0</b>	<b>Science 4.0</b>	<b>Soc Studies 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 (EOC)	Algebra I (EOC)	Biology (EOC)	W. Geography or W. History	Language 2.0 (LOTE or Computer Science)		
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		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>Science 4.0</b>	<b>Soc Studies 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%.						

## 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 a math teacher or check with your campus counselor.

Mathematical Model with Applications	Algebra II	Pre-calculus
Dual Credit Pre-calculus	Advanced 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, 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 \*  
 Aerscience I\*  
 Aerscience 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



## ACADEMIC PROGRAMS

### Course Designations

Core courses in Humble ISD are offered as on-level, Pre-Advanced Placement (Pre-AP), 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.

### Pre-AP/AP/IB Courses/Honors

Pre-AP/AP, IB, and Honors courses are designed to challenge motivated students and prepare them for success in college level course work 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 Pre-AP courses are designed to better prepare students for advanced academic coursework, Pre-AP courses are not a requirement for enrolling in most AP, IB, Honors, and dual credit courses.
- Some AP courses have course prerequisites that must be completed. Check the course catalog for prerequisites.
- Pre-AP/AP/IB is not "all or nothing." Students may take one or more of their core classes as Pre-AP/AP/IB.
- Students develop academic readiness at different rates and may not be ready for Pre-AP at the same time as their friends or classmates.
- For most courses it is possible to move from on-level to Pre-AP sections from one year to the next. A student who moves from on-level to Pre-AP may require additional support in making the transition.

### Pre-AP/AP/IB Entry Guidelines

The purpose of the Pre-AP 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 Pre-AP 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. Pre-AP 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. To participate in Pre-AP or AP/IB courses, demonstration of mastery on course-related state-mandated performance assessments including TAKS and/or STAAR is necessary. 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 Pre-AP courses and for the benefit of students, entry into a Pre-AP course from an on-level course is discouraged after the start of the school year. It is recommended that students enter advanced courses only at the beginning of the course. Exceptions must have principal approval.

### Pre-AP/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 a Pre-AP 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 Pre-AP or AP/IB course at least one full semester.
3. Students petitioning to exit a Pre-AP or AP course should meet the following criteria:
  - a. Conference with the teacher
  - b. Completion of course assignments
  - c. Attendance at recommended tutorials

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 appropriate placement from participating colleges provided they make an acceptable score 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 testing 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 he/she 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 he/she would have taken at his/her state college or university.** Students may have to take additional course work if the transfer school has a larger core curriculum than the school he/she 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 he/she plans 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 his/her counselor to create a plan. At a minimum, a student may have to take 11 semester credit hours (roughly 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 hard work.

**Remember, that if a student completes the entire core curriculum with grades of "C" or better, Texas law requires that the receiving 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.theccb.state.tx.us/reports/>

<http://www.theccb.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.

# Core Complete Requirements for Lone Star College

## (42 Semester Credit Hours)

Core Component Area	College Course	*High School Course	HS Credit
<b>Communication</b> <i>(choose ENGL 1301 + one SPCH course – 6 hrs)</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</b> <i>(choose 1 course – 3 hrs)</i>	MATH 1314	223030 – College Algebra PreAP Dual	1.0
	MATH 1316	2233DA – PreCal PreAP Dual A	1.0
	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</b> <i>(choose 2 courses – 8 hrs)</i>	BIOL 1406	3329D – AP Biology Dual	1.0
	BIOL 1407		
	BIOL 1408	3329D – AP Biology Dual	
	BIOL 1409		
	BIOL 2401	CT750D – Anat & Physiology H Dual	1.0
	BIOL 2402		
	CHEM 1405	3331D – Intro Chemistry H Dual	1.0
	CHEM 1411	3334D – AP Chemistry Dual	1.0
	CHEM 1412		
	ENVR 1401	333033 – AP Environ Science Dual	1.0
	GEOL 1403		
	GEOL 1404		
	GEOL 1445		
	GEOL 1445		
	PHYS 1401	3335D – AP Physics Year 1 Dual	1.0
PHYS 1402			
PHYS 1403			
PHYS 1404			
PHYS 1410			
PHYS 2425			
PHYS 2426			
<b>Creative Arts</b> <i>(choose 1 course – 3 hrs)</i>	ARTS 1301	5707D – Art Appreciation Dual	1.0
	ARTS 1303	- Art History	
	ARTS 1304	- Art History	
	DANC 2303	- Dance Appreciation	1.0
	MUSI 1306	570034 – Music Appreciation Dual	
	MUSI 1307	Music Literature	
	MUSI 1310	American Music	
DRAM 1310	578634 - Theatre Arts Dual	1.0	

Core Component Area	College Course	*High School Course	HS Credit
<b>Language, Philosophy, and Culture</b> <i>(choose 1 course – 3 hrs)</i>	SPAN 2311	5636D – Spanish 3 PreAP 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 PreAP Dual	1.0
	FREN 2312	5607D – AP French 4 Dual	1.0
	GERM 2311	5616D – German 3 PreAP Dual	1.0
	GERM 2312	5617D – AP German 4 Dual	1.0
	SGNL 2301	- American Sign Language 3 Dual	1.0
	SGNL 2302	- American Sign Language 4 Dual	1.0
	PHIL 1301	Introduction to Philosophy	
	PHIL 1304	Introduction to World Religions	
	PHIL 2306	Introduction to Ethics	
	PHIL 2307	Introduction to Social and Political Philosophy	
	PHIL 2316	Classical Philosophy	
PHIL 2321	Philosophy of Religion		
<b>History</b> <i>(choose 2 courses – 6 hrs)</i>	HIST 1301	4431DA – US History H Dual A	0.5
	HIST 1302	4431DB – US History H Dual B	0.5
<b>Government</b> <i>(choose 2 courses – 6 hrs)</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</b> <i>(choose 1 course – 3 hrs)</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	Western Civilization to 1648	
	HIST 2312	Western Civilization from 1648	
	HIST 2321	World History to 1492	
	HIST 2322	World History from 1492	
	CRIJ 1301	Introduction to CJ	
	CRIJ 1307	Crime in America	
GEOG 1303	World Geography		
<b>Component Area</b> <i>(choose 2 courses – 4 hrs)</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 except PE have honors grade points

## **Quest Early College High School**

In partnership with Lone Star College-Kingwood, Quest 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 -- for FREE.**

### **Quest 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 Quest 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 QECHS admission after their ninth grade year unless they are transferring from another Early College High School within Texas.

TSI testing: Quest 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.



## QECHS Sample Course Walk

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

QECHS	LSC-K	CR
English 1 PAP		1
Alg 1H or Geom PAP		1
IPC PAP 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
Totals	4-8	8

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

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

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

QECHS	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
Government/Adv SS	GOVT 2305/6 (6)	1
Economics		.5
AVID		1
Service		.5
Humanities/Comm Apps	HUMA 1301 (3) SPCH 1311 (3)	1.0
Totals	25	7

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

QECHS	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
Totals	26	8

QECHS students will be on the Foundation High School Plan with the Distinguished Level of Achievement.

QECHS 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).

## Deciding between Advanced Placement (AP) and Dual Credit(D) College Credit Courses

	<b>Advanced Placement (AP)</b>	<b>Dual Credit</b>
<b>Description</b>	The AP Program allows students to take college-level courses and exams while in high school. A strong score on the culminating exam 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.
<b>Credit</b>	College credit may be awarded depending on the student's score on the AP examination. Individual colleges and universities, not the College Board or the AP Program, determine course credit and placement.	High school and college credit through Lone Star College (LSC) is awarded when the student 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.
<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
<b>Taught</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.
<b>Eligibility</b>	Open to any high school student.	Open to all grades levels who meet specified college readiness standard scores.
<b>Cost</b>	Textbooks are provided by HISD. The student must pay for each AP Exam s/he chooses 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.



**Gifted and Talented Courses (GT/Pre-AP/ AP and IB)**

Students who have been identified for GT programming receive a wide range of instructional options. Gifted and Talented/Pre-AP 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.

Students electing to take level courses rather than Gifted and Talented, Pre-AP or AP, and IB courses should complete the furlough form signed by a parent and return it to the counselor. Eligibility for reinstatement may occur at the beginning of any school year.

**GT students are served via the following courses:**

<b>English</b>	<b>Social Studies</b>	<b>Science</b>	<b>Mathematics</b>
English I Pre-AP English II Pre-AP English III AP English IV AP IB English III IB English IV	World Geography Pre-AP AP World History AP U.S. History AP U.S. Government and Politics AP Economics IB History IB World Topics IB Psychology	Biology Pre-AP Chemistry Pre-AP Physics Pre-AP Anatomy and Physiology H AP Biology AP Chemistry AP Physics IB Biology IB Chemistry IB Physics	Algebra I Pre-AP Geometry Pre-AP Algebra II Pre-AP College Algebra Dual Pre-Calculus Pre-AP AP Calculus AB AP Calculus BC AP Statistics IB Math Studies IB Mathematics



## INSTRUCTIONAL SUPPORTS

### **AVID Elective Class**

AVID (Advancement Via Individual Determination) is a program designed to prepare students toward four-year college eligibility. AVID students are typically first-time college attendees and graduates in their families. Students in the fourth through twelfth grades in HISD may be enrolled in AVID. Communication applications course credit may be embedded into 8<sup>th</sup> grade AVID and AVID 1 in high school for 0.5 high school credit at certain schools contingent upon the availability of a certified communication applications teacher at the school and enrollment in AVID for one full year.

AVID students are encouraged to enroll in a school's advanced level classes and attend an academic elective class—called AVID—taught within the school day by a trained AVID teacher. Students receive 1.0 elective credit for the course in high school. The three main components of the program are academic instruction, tutorial support, and motivational and college prep activities. The AVID curriculum is based on writing as a tool of learning, the inquiry method, collaborative grouping, and academic reading. Each school has an AVID Site Team with a minimum of 8 members, consisting of core academic teachers, counselors, and administrators.

Tutors are essential to the success of the AVID elective class where they facilitate student success in advanced level classes. Each secondary school has multiple AVID classes in which tutors are utilized two days each week to work with small groups of students in a 7:1 ratio. University and college students are highly desirable as tutors because they serve as college role models for the AVID students. Guest speakers, college visits and participation in extracurricular and community activities are also a vital part of the course.

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

### **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 Choices 360 website, [www.choices360.com](http://www.choices360.com). 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, 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 being home-schooled may choose to enroll in one or two elective classes on the high school campus 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 course, 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

In spring 2012, Texas **students in grades 3 through 9** began taking a new state assessment called the State of Texas Assessments of Academic Readiness or STAAR™. STAAR is a more rigorous standardized testing program that will replace the Texas Assessment of Knowledge and Skills (TAKS) for elementary, middle, and high school students. The new STAAR program emphasizes "readiness" standards, which are the knowledge and skills that are considered most important for success in the grade or subject that follows.

In order to meet graduation requirements, **students first entering ninth grade in the 2011–2012** school year and thereafter are required to take 5 end-of-course (EOC) assessments as they complete each corresponding course.

The 5 EOC assessments are:

- English I, Reading and Writing
- English II, Reading and Writing
- Algebra I
- Biology
- U.S. History

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, including endorsements**. Students may earn 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 report card and 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. 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 the two semester grades average to a passing grade for the year, one full credit will be awarded. 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 high school class rank.

Once credit is awarded, courses cannot be repeated during the regular school term. However, students may repeat courses during summer school for remedial purposes only. The grade earned for these repeated remedial courses will be recorded as a local credit on the high school transcript and will not calculate into the student's GPA.

## **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

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 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 mainly for remediation and/or credit recovery. A few courses typically taken at the senior level may be offered for acceleration. 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 either the Texas Assessments of Knowledge and Skills (TAKS) or 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 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.

## 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 parent or guardian 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.

### 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 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, he/she is 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 \$70.00 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 he/she has 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 **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 in 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.

<b>GRADE</b>	<b>ADVANCED</b>	<b>ON-LEVEL</b>
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 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 valedictory or salutatory honors:

- Enrollment in an Humble Independent School District high school prior to the 20<sup>th</sup> day of the year preceding his/her 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 Recommended High School graduation program or the Distinguished Achievement Program.
  - 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**

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 or department.

To be eligible for automatic admission, a student must:

- Graduate in the top 10 percent of his/her class at a public or private high school in Texas, or
- Graduate in the top 10 percent of his/her class from a high school operated by the U.S. Department of Defense and be a Texas resident or eligible to pay resident tuition;
- Enroll in college no more than two years after graduating from high school; and
- Submit an application to a Texas public university for admission before the institution's application deadline (check with university regarding specific deadlines).
- 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
- Students admitted through this route may still be required to provide SAT or ACT scores although these scores are not used for admissions purposes. Students must also take the THEA test, unless exempted from the test requirements. Check with the admissions office regarding THEA, SAT, and ACT requirements.

After a student is admitted, the university may review the student's high school records to determine if the student is prepared for college-level work. A student who needs additional preparation may be required to take a developmental, enrichment, or orientation course during the first semester of college.

## **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 for instructions.

## **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.AdventuresinEducation.org](http://www.AdventuresinEducation.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)**

# HIGH SCHOOL

# COURSE

# DESCRIPTIONS

## **FEES**

The Humble Independent School District provides a budget for basic learning experiences for each course. Fees will be charged to cover the cost of materials in certain courses for products which are to be retained or consumed by the students. These costs may not exceed the district-approved limit. Specific costs are defined in the course descriptions outlined in this handbook. Students or parents may furnish the materials themselves or purchase them through the school.

## ENGLISH LANGUAGE ARTS

**English I and II for Speakers of Other Languages** (1101, 1102) 1- 2 Credits  
Grade Level: 9-12 Level Grade Points  
Prerequisite: Identified as an English Learner (EL) by the Language Proficiency Assessment Committee (LPAC)

English I and II for Speakers of Other Languages may be substituted for English I and 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. 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 and II for Speakers of Other Languages, English III and IV (or the equivalent) are the required courses. 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** (1111) 1 Credit  
Grade Level: 9 Level Grade Points  
Prerequisite: None

English I provides intensive and continued exposure to the elements of the writing process (planning, drafting, revising, editing) to compose texts on a regular basis. Emphasized writing modes include literary, analytical, persuasive, and expository genres. Students continue to refine their critical thinking and complex inferences through the exposure of classical and contemporary multi-genre and multi-cultural selections, which include literary and informational texts. This course will be assessed with an End of Course exam required for graduation.

**English I Pre-AP** (1113) 1 Credit  
Grade Level: 9 Advanced Grade Points  
Prerequisite: None

English I Pre-AP provides increased intensity and complexity on the expository, analytical, and argumentative reading and writing that forms the basis of academic and professional communication as well as the personal and reflective communication that fosters the development of writing in any context. Students increase their awareness of how stylistic effects are achieved by writers' rhetorical and linguistic choices. This course will be assessed with an End of Course exam required for graduation.

**English I Gifted & Talented** (1114) 1 Credit  
Grade Level: 9 Advanced Grade Points  
Prerequisite: District recommendations for Gifted & Talented Placement

English I GT consists of a study of the elements of literature and composition. 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. This course will be assessed with an End of Course exam required for graduation.

**English II** (1121) 1 Credit  
Grade Level: 10 Level Grade Points  
Prerequisite: English I

English II provides intensive practice in various forms of writing including literary responses, reflective essays, expository, and argumentative modes. Students continue their exposure of multi-genre texts from around the world to emphasize critical thinking and inferences on the connection between culture and language. Sample reading genres include narratives, dramas, novels, poetry, and speeches. This course will be assessed with an End of Course exam required for graduation.

**English II Pre-AP** (1123) 1 Credit  
Grade Level: 10 Advanced Grade Points  
Prerequisite: English I

English II Pre-AP traces the development of British literature and world drama from their ancient bases to modern illustrations. The course provides extensive instruction in methods of literary analysis through reading and writing about selected works of fiction, nonfiction, drama, and poetry. This course will be assessed with an End of Course exam required for graduation.

## ENGLISH LANGUAGE ARTS, Cont.

### **English II Gifted & Talented** (1124)

Grade Level: 10  
Prerequisite: District recommendations for Gifted and Talented placement

1 Credit  
Advanced Grade Points

English II GT focuses on developing gifted students' analytical powers 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. This course will be assessed with an End of Course exam required for graduation.

### **English III** (1131)

Grade Level: 11  
Prerequisite: English II

1 Credit  
Level Grade Points

English III provides intensive instruction on the modes and purposes of writing, the development of the multi-paragraph paper, literary analysis, and an emphasis on the research process and the research paper. Students plan, draft, and complete written compositions on a regular basis. Students read extensively in multiple genres from American literature.

### **College Transition** (1200D)

Grade Level: 11-12  
Prerequisite: Dual Credit Application

1 Credit  
Advanced Grade Points

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 of 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. Dual Credit is available from Lone Star College for this course.

### **AP English Language and Composition III** (1133)

Grade Level: 11-12  
Prerequisite: None

1 Credit  
Advanced Grade Points

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. The academic rigor of this course prepares students for the AP English Language and Composition exam.

### **IB English III** (1133I)

Grade Level: 11  
Prerequisite: Acceptance into the IB Diploma Program

1 Credit  
Advanced Grade Points

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.

## ENGLISH LANGUAGE ARTS, Cont.

### **AP English Language and Composition Gifted & Talented III** (1134)

Grade Level: 11-12  
Prerequisite: None

1 Credit  
Advanced Grade Points

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.

### **English IV** (1141)

Grade Level: 12  
Prerequisite: English III

1 Credit  
Level Grade Points

English IV provides intensive instruction in planning, drafting, and completing written compositions on a regular basis. 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)

Grade Level: 12  
Prerequisite: Dual Credit Application

1 Credit  
Advanced Grade Points

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 Literature and Composition IV** (1143)

Grade Level: 11-12  
Prerequisite: None

1 Credit  
Advanced Grade Points

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.

### **IB English IV** (1143I)

Grade Level: 12  
Pre-requisites: Acceptance into the IB Diploma Program, completion of IB English III

1 Credit  
Advanced Grade Points

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.

## ENGLISH LANGUAGE ARTS, Cont.

### AP English Literature and Composition/Gifted & Talented IV (1144)

Grade Level: 11-12

Prerequisite: District recommendations for Gifted/Talented

1 Credit  
Advanced Grade Points

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.

### Practical Writing Skills (1147)

Grade Level: 12

½ Credit  
Level Grade Points

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. *This course will not meet the requirements for the Foundation High School Program, the Recommended High School Program, or the Distinguished Achievement graduation programs.*

### Strategic Writing (10500)

Grade Level: 10 or 11

½ to 1 Credit  
Level Grade Points

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

### Literary Genres (1148)

Grade Level: 12

Prerequisite: English III

½ Credit  
Level Grade Points

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. *This course will not meet the requirements for the Recommended High School Program or the Distinguished Achievement Program.*

### College Prep ELA (114000)

Grade Level: 12

½ Credit  
Level Grade Points

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.

### IB Theory of Knowledge (1164I)

Grade Level: 11 or 12

Pre-Requisite: Required for International Baccalaureate Diploma Program  
Open to all Juniors and Seniors at Humble High School

1 Credit  
Advanced Grade Points

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** (CT405)

Grade Level: 12

Prerequisite: English III, Recommended, Touch System Data Entry

1 Credit  
Level Grade Points

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. This course may be an articulated course.



# READING

Students may earn up to three elective credits for Reading in grades 9-12. Students will be placed in the course based on multiple criteria reviewed by the grade level counselor in cooperation with the Reading Department.

Criteria to be used include some or all of the following:

- Referral by teacher, counselor, or parent.
- Reading comprehension and word identification levels based on standardized testing and informal reading inventories
- Reading performance on TAKS/TELPAS Reading
- Performance on classroom reading assessments
- Skill level and utilization of reading strategies across content areas

**Reading I** (1181)

Grade Level: 9

1 Credit  
Level Grade Points

Reading I is a research-based reading intervention program for 9th grade students who are reading more than three to four years below grade level. Reading I directly addresses students who need intensive support in order to meet state-approved grade-level standards in oral expression, listening comprehension, written expression, basic reading skills, reading fluency skills, and reading comprehension. Progress monitoring, instructional assessment, and compilation of benchmark data document student strengths and weaknesses and help teachers differentiate instruction to meet individual needs.

**Reading II** (1182)

Grade Level: 9-10

1 Credit  
Level Grade Points

Reading II is for 9<sup>th</sup> grade students whose reading comprehension level is from two to three years below grade level and for 10<sup>th</sup> grade students who completed Reading I in ninth grade and need further intervention. Students in Reading II continue to receive intensive support in order to meet state-approved grade-level standards in oral expression, listening comprehension, written expression, basic reading skills, reading fluency skills, and reading comprehension. Progress monitoring, instructional assessment, and compilation of benchmark data document student strengths and weaknesses and help teachers differentiate instruction to meet individual needs.

**Reading III** (1183)

Grade Level 10-12

1 Credit  
Level Grade Points

Reading III is for 10<sup>th</sup>, 11<sup>th</sup> or 12<sup>th</sup> grade students who need additional reading intervention and/or for upper classmen who have transferred into the District and are reading significantly below expected grade level. Students in Reading III continue to receive intensive support in order to meet state-approved grade-level standards in oral expression, listening comprehension, written expression, basic reading skills, reading fluency skills, and reading comprehension. Progress monitoring, instructional assessment, and compilation of benchmark data document student strengths and weaknesses and help teachers differentiate instruction to meet individual needs.

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

Grade Level: 9-12

1 Credit  
Level Grade Points

Prerequisite: Must be identified as dyslexic and placed by Core Team

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 Study Skills** (1199)

Grade Level: 9-10

½ Credit  
Level Grade Points

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** (1150)

Grade Level: 9-12

Prerequisite: None

1 Credit  
Level Grade Points

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

## **Advanced Journalism: Yearbook Production I** (1153)

Grade Level: 10-12

Prerequisite: Journalism 1

1 Credit  
Level Grade Points

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

## **Advanced Journalism: Yearbook Production II** (1154)

Grade Level: 11-12

Prerequisite: Advanced Journalism: Yearbook I

1 Credit  
Level Grade Points

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. Students may receive Technology Application course credit for Desktop Publishing when this course is taught by a teacher certified in Technology Applications.

## **Advanced Journalism: Yearbook Production III** (1155)

Grade Level: 12

Prerequisite: Advanced Journalism: Yearbook II

1 Credit  
Level Grade Points

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.

## **Advanced Journalism: Newspaper Production I** (1156)

Grade Level: 10-12

Prerequisite: Journalism 1

1 Credit  
Level Grade Points

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

## **Advanced Journalism: Newspaper Production II** (1157)

Grade Level: 11-12

Prerequisite: Advanced Journalism: Newspaper I

1 Credit  
Level Grade Points

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. Students may receive Technology Application course credit for Desktop Publishing when this course is taught by a teacher certified in Technology Applications.

## **Advanced Journalism: Newspaper Production III** (1158)

Grade Level: 12

Prerequisite: Advanced Journalism: Newspaper II

1 Credit  
Level Grade Points

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

**Photojournalism** (1159)

Grade Level: 9-12

Prerequisite: None

1 Credit

Level Grade Points

Photojournalism provides instruction in handling a digital camera. Emphasis is placed on the journalistic aspects of making photo-generated 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

The following charts may be useful in planning a student's mathematics courses for four years depending on what, if any, high school math course the student took in middle school:

1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	4 <sup>th</sup> year
Algebra I or Algebra I Pre-AP	Geometry	Mathematical Models with Applications	Algebra II
		Mathematical Applications in Agriculture	
		Algebraic Reasoning	
		On Level Statistics	
	Geometry Pre-AP	Algebra II	Algebra III
			Advanced Quantitative Reasoning
			On Level Statistics
			College Prep Algebra / College Algebra Dual College Prep Algebra/ Statistics Dual
			College Algebra Dual / Finite Math Dual
			AP Statistics
			Pre-Calculus Pre-AP
			Mathematics for Medical Professionals
		Algebra II Pre-AP	Advanced Quantitative Reasoning
			College Prep Algebra/ College Algebra Dual College Prep Algebra/ Statistics Dual
			College Algebra Dual / Finite Math Dual
			Pre-Calculus Pre-AP
AP Statistics			
IB Math Studies			

1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	4 <sup>th</sup> year
Geometry	Algebra II	Advanced Quantitative Reasoning	College Prep Algebra/ College Algebra Dual
			College Algebra Dual/ Finite Math Dual
			Pre-Calculus Pre-AP/AB
			AP Statistics On Level Statistics
		College Prep Algebra/ College Algebra Dual College Prep Algebra/ Statistics Dual/Mathematics for Medical Professionals	Pre-Calculus Pre-AP/AB
			AP Statistics
		College Algebra Dual / Finite Math	Pre-Calculus Pre-AP/AB
			AP Statistics
		Pre-Calculus Pre-AP/ AB/ BC	AP Calculus AB/BC
			AP Statistics
		Algebra III	College Prep Algebra/ College Algebra Dual
			College Algebra Dual/ Finite Math Dual
	AP Statistics On Level Statistics		
	AP Statistics  On Level Statistics	College Prep Algebra/ College Algebra Dual	
		College Algebra Dual/ Finite Math Dual	
	Algebraic Reasoning	Algebra II	College Prep Algebra/ College Algebra Dual College Prep Algebra/ Statistics Dual
			College Algebra Dual/ Finite Math Dual
			Pre-Calculus Pre-AP/AB
			AP Statistics On Level Statistics
			Algebra III
Advanced Quantitative Reasoning			

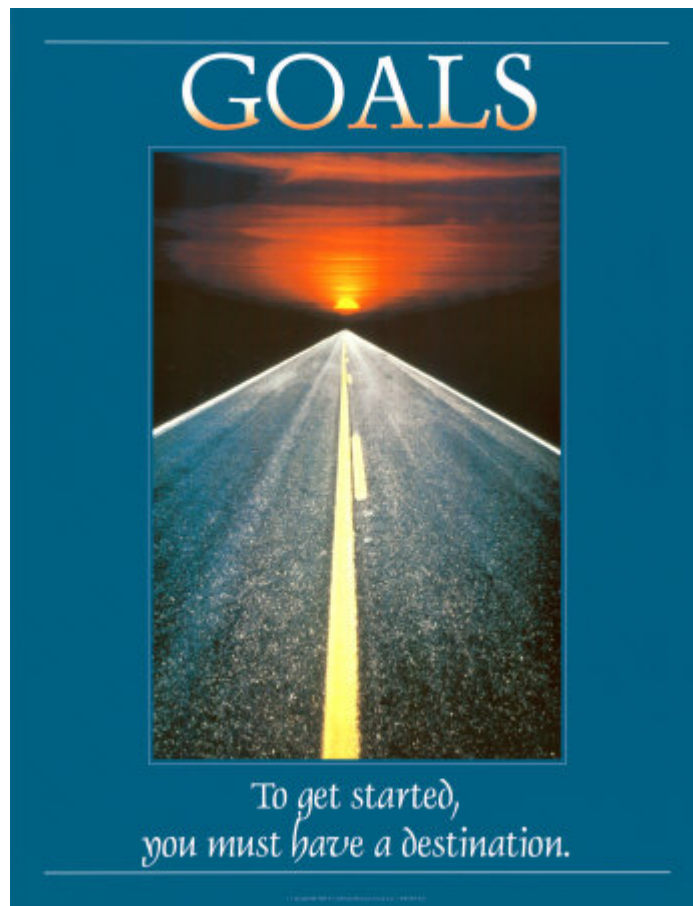
TAKE PRIDE  
IN HOW FAR  
YOU HAVE COME,  
AND HAVE FAITH IN  
HOW FAR YOU CAN GO!

1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	4 <sup>th</sup> year
Geometry Pre-AP	Algebra II	Advanced Quantitative Reasoning	College Algebra Dual/ Finite Math Dual
			College Math Prep/ College Algebra Dual
			Pre-Calculus Pre-AP/AB
			AP Statistics
		College Algebra Dual/ Finite Math Dual	Pre-Calculus Pre-AP/AB
			AP Statistics
		College Prep Algebra/ College Algebra Dual College Prep Algebra/ Statistics Dual	Pre-Calculus Pre-AP/AB
			AP Statistics
		Pre-Calculus Pre-AP/AB or BC	AP Statistics
			AP Calculus AB/BC
AP Statistics  On Level Statistics	College Algebra Dual/ Finite Math Dual		
	College Prep Algebra/ College Algebra Dual College Prep Algebra/ Statistics Dual AP Statistics		
Algebra II Pre-AP	IB Math Studies	AP Calculus AB or BC	
Algebra II Pre-AP	Pre-Calculus Pre-AP/AB or BC	IB Math Studies AND AP Calculus AB or BC	





1 <sup>st</sup> year	2 <sup>nd</sup> year	3 <sup>rd</sup> year	4 <sup>th</sup> year
Algebra II Pre-AP	College Algebra Dual / Finite Math Dual	Pre-Calculus Pre-AP/AB or BC	AP Calculus AB or BC
	College Prep Algebra/ College Algebra Dual College Prep Algebra/ Statistics Dual		





**Algebra I** (2202)

Grade Level: 9-12

Prerequisite: Mathematics Grade 8 or its equivalent

1 Credit  
Level Grade Points

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. The next recommended course is Geometry (Pre-AP or Level). This course will be assessed with an End of Course exam required for graduation.

**Algebra I Pre-AP** (221102)

Grade Level: 9-12

Prerequisite: Mathematics Grade 8 or its equivalent

1 Credit  
Advanced Grade Points

Algebra I Pre-AP 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 Pre-AP 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. The next recommended course is Geometry Pre-AP. This course will be assessed with an End of Course exam required for graduation.

**Strategic Mathematics** (220500)

Grade Level: 10

 $\frac{1}{2}$  to 1 Credit  
Level Grade Points

This course is intended to create strategic mathematical learners from underprepared mathematics students. The basic understandings 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)

Grade Level: 9-12

Prerequisite: Algebra I

1 Credit  
Level Grade Points

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. The next recommended course is Algebra II (Pre-AP or Level), Algebraic Reasoning, or Mathematical Models with Applications.

**Geometry Pre-AP** (2213)

Grade Level: 9-12

Prerequisite: Algebra I

1 Credit  
Advanced Grade Points

Geometry Pre-AP 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. The next recommended math course is Algebra II (Pre-AP or Level).

**Mathematical Models with Applications** (2229)

Grade Level: 10-12

Prerequisite: Algebra I or concurrent with Geometry

1 Credit  
Level Grade Points

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. **This course is not open to students who have received credit for either semester of Algebra II or Algebra Reasoning.** The next recommended course is Algebra II or Algebraic Reasoning.

**Algebraic Reasoning**

Grade Level: 10-12

Prerequisite: Algebra I or concurrent with Geometry

1 Credit  
Level Grade Points

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 (Level).

**Statistics** (223400)

Grade Level: 10-12

Prerequisite: Algebra I and Geometry

1 Credit  
Level Grade Points

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.

**Algebra II** (2222)

Grade Level: 10-12

Prerequisite: Algebra I

1 Credit  
Level Grade Points

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. The next recommended course is Advanced Quantitative Reasoning, Pre-Calculus Pre-AP, College Algebra Pre-AP, College Math Prep, CTE Math course where Algebra II is a prerequisite, or Algebra III.

**Algebra II Pre-AP** (2223)

Grade Level: 10-12

Prerequisite: Algebra I

1 Credit  
Advanced Grade Points

Algebra II Pre-AP moves at an accelerated pace requiring less repetitive reinforcement of concepts than the On-level course. The Pre-AP 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. The next recommended course is Pre-Calculus Pre-AP, College Math Prep, CTE Math course where Algebra II is a prerequisite, or College Algebra Pre-AP.

**Algebra III** (2225)

Grade Level: 11-12

Prerequisite: Geometry and Algebra II

1 Credit  
Level Grade Points

Algebra III is designed for students who have completed Algebra II but have not yet taken College Algebra Pre-AP or Pre-Calculus Pre-AP. Topics include polynomial functions, sequences and series, exponential and logarithmic functions, quadratic functions, matrices, trigonometry, and statistics. **This course will appear in the high school transcript as *Independent Study in Mathematics*.**

**Advanced Quantitative Reasoning** (2227)

Grade Level: 11-12

Prerequisite: Geometry and Algebra II

1 Credit  
Level Grade Points

Advanced 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.

**College Prep Algebra (Math 0310)** (224000)

Grade Level: 12

Prerequisite: Geometry and Algebra II

½ Credit  
Level Grade Points

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.

**College Algebra Dual** (2230D) (Lone Star College MATH 1314)

Grade Level: 11-12

Prerequisite: Geometry and Algebra II and fulfillment of college admissions requirements

½ Credit  
Advanced Grade Points

College Algebra Pre-AP Dual is designed for students who have completed Algebra II but have not yet taken Pre-Calculus Pre-AP. 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 Pre-AP, Finite Math, or AP Statistics. **This course will appear on the high school transcript as *Independent Study in Mathematics*.**

**College Prep Statistics** (224100A) (Math 0309)

Grade Level: 12

Prerequisite: Geometry and Algebra II

½ Credit  
Level Grade Points

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.

**Statistics Dual (Math 1342)** (223430)

Grade Level: 12

Prerequisite: Geometry and Algebra II and fulfillment of college admissions requirements

½ Credit  
Advanced Grade Points

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

linear regression and correlation problems; and perform hypothesis testing using statistical methods. Credit for MATH 1342 will be awarded by Lone Star College.

**Finite Mathematic Dual** (223130)

.5 Credit

Grade Level: 11-12

Advanced Grade Points

Prerequisite: College Algebra (Math 1314)

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

**AP Statistics** (2234)

1 Credit

Grade Level: 11-12

Advanced Grade Points

Prerequisite: Geometry and Algebra II

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. After successful completion of the course, the student should be prepared to take the College Board Advanced Placement Statistics Examination.

**Pre-Calculus Pre-AP/AB** (2233) (2233D) (Lone Star College MATH 1316 & MATH 2412)

1 Credit

Grade Level: 11-12

Advanced Grade Points

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

Pre-Calculus Pre-AP/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 Pre-AP/BC** (2235) (2235D) (Lone Star College MATH 1316 & MATH 2412)

1 Credit

Grade Level: 11-12

Advanced Grade Points

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

Pre-Calculus Pre-AP/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 Pre-AP/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.

**AP Calculus AB** (2243) (2243D) (Lone Star College MATH 2413)

1 Credit

Grade Level: 12

Advanced

Grade Points

Prerequisite: Pre-Calculus Pre-AP/AB or Pre-Calculus Pre-AP/BC

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, used 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 the 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) (Lone Star College MATH 2413)

1 Credit

Grade Level: 12

Advanced Grade Points

Prerequisite: Pre-Calculus Pre-AP/BC

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.

**CTE Math Course Options:**

**Mathematical Applications in Agriculture** (CT105)

1 Credit

Grade Level: 10-12

Level Grade Points

Prerequisite: Algebra I and prefer one credit in an Agriculture course

Students apply knowledge and skills related to mathematics including Algebra, Geometry, and data analysis in the context of agriculture, food, and natural resources. This may count as a math credit if taken before Algebra II and taught by a NCLB approved or math certified teacher.

**Statistics and Business Decision Making** (CT620)

1 Credits/Math

Grade Level: 11-12

Level Grade Points

Prerequisite: Geometry and Algebra II

Statistics and Business Decision Making is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid. This course satisfies a high school mathematics graduation requirement.

**Mathematics for Medical Professionals** (CT755)

1 Credit/Math

Grade Level: 11-12

Level Grade Points

Prerequisite: Geometry and Algebra II

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

**Humble High School IB Course Options:**

**International Baccalaureate Math Studies** (2226I)

1 Credit

Grade 11-12

Advanced Grade Points

Prerequisite Acceptance into the International Baccalaureate Diploma Program and completion of Algebra I, Geometry, and Algebra II

IB Math Studies is a one-year course designed to prepare students for the International Baccalaureate Math Studies Standard Level (SL) exam. The course is designed to provide an advanced, realistic mathematics course for students with varied backgrounds and abilities who may not study mathematics at university. The course develops the skills needed to successfully handle the mathematical demands of a technological society, with an emphasis on the application of mathematics to real-life, everyday situations. Course topics include: linear, quadratic, and exponential functions; sequences and series; sets, logic and probability; statistics; and differential calculus. During the course, students will be expected to pursue an individual project that allows for an authentic experience of mathematics. Topics can be chosen from a wide variety of possibilities (modeling, investigations, applications, and statistical surveys), and the project will be of interest to the student, interdisciplinary in nature, and representative of mathematics learned in the course.

**International Baccalaureate Mathematics SL**

Grade Level: 11-12

1 Credit  
Advanced Grade Points

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

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.



## SCIENCE

### **Integrated Physics and Chemistry** (3307)

Grade Level: 9-12  
Prerequisite: None

1 Credit  
Level Grade Points

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. **This course does not count for the Distinguished Achievement Plan. This class does not count as a physics credit on the RHSP.**

### **Integrated Physics and Chemistry Pre-AP** (3308)

Grade Level: 9-12  
Prerequisite: None

1 Credit  
Honors Grade Points

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. **This course does not count for the Distinguished Achievement Plan. This class does not count as a physics credit on the RHSP.**

### **Biology** (3321)

Grade Level: 9-10  
Prerequisite: None

1 Credit  
Level Grade Points

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. This course will be assessed by the Biology STAAR EOC.

### **Biology Pre-AP** (3323)

Grade Level: 9-10  
Prerequisite: None

1 Credit  
Advanced Grade Points

Biology Pre-AP 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. This course will be assessed by the Biology STAAR EOC.

### **AP Biology** (3329)

Grade Level: 11-12  
Prerequisite: Biology and Chemistry

1 Credit  
Advanced Grade Points

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.



## SCIENCE, Cont.

### **IB Biology 1** (3325I)

Grade Level: 11

1 Credit  
Advanced Grade Points

Prerequisite: Acceptance into the International Baccalaureate Diploma Program.

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 2** (3329I)

Grade Level: 12

1 Credit  
Advanced Grade Points

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

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.

### **Dual Credit Biology** (3329D) (BIOL 1406 Lone Star College)

Grade Level: 11-12

1 Credit  
Advanced Grade Points

Prerequisite: Biology and Chemistry

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.

### **Chemistry** (3331)

Grade Level: 10-11

1 Credit  
Level Grade Points

Prerequisite: Biology and Algebra I, completion of or concurrent enrollment in Algebra II

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. **It is recommended that students have completed or are concurrently enrolled in Algebra II.**





**Chemistry Pre-AP** (3333) 1 Credit  
Grade Level: 10-11 Advanced Grade Points  
Prerequisite: Biology and Algebra I, completion of or concurrent enrollment in Algebra II

The Chemistry Pre-AP 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. It is recommended that students have completed or are concurrently enrolled in Algebra II.

**IB Chemistry 1** (3331I) 1 Credit  
Grade Level: 11-12 Advanced Grade Points  
Prerequisite: Acceptance into the International Baccalaureate Diploma Program

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 2** (3335I) 1 Credit  
Grade Level: 12 Advanced Grade Points  
Prerequisite: Acceptance into the International Baccalaureate Diploma Program

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.

**AP Chemistry** (3334) 1 Credit  
Grade Level: 11-12 Advanced Grade Points  
Prerequisite: Biology, Chemistry and Physics **or** concurrent enrollment in Physics

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, of determination of molecular mass, and in 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) (CHEM 1411 Lone Star College) 1 Credit  
Grade Level: 11-12 Advanced Grade Points  
Prerequisite: Biology, Chemistry and Physics **or** concurrent enrollment in Physics

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's and properties of gases, liquids, solids and solutions. Appropriate lab experiments are included.

**Physics** (3341) 1 Credit  
Grade Level: 11-12 Level Grade Points  
Prerequisite: Biology, Chemistry, and completion or enrollment in Algebra II

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. It is strongly recommended that the student has completed Chemistry.

**AP Physics Year 1: Algebra Based** (333503) 1 Credit

Grade Level: 11-12 Advanced Grade Points  
Prerequisite: Concurrent enrollment or completion of Algebra II  
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. The AP Physics 1 exam can be taken at the end of the year for this course.

**AP Physics Year 2: Algebra Based** (333603) 1 Credit  
Grade Level: 12 Advanced Grade Points  
Prerequisite: Concurrent enrollment or completion of Pre-Calculus  
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. The AP Physics 2 exam can be taken at the end of the year for this course.

**AP Physics C** (3344) 1 Credit  
Grade Level: 11-12 Advanced Grade Points  
Prerequisite: Biology, Chemistry, Physics, and Pre-calculus; concurrent enrollment in Calculus

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. Preparation for the College Board Advanced Placement Exam will be emphasized throughout the year.

**IB Physics 1** (3343I) 1 Credit  
Grade Level: 11 Advanced Grade Points  
Prerequisite: Acceptance into the International Baccalaureate Diploma Program

IB Physics 1 encompasses many areas of interaction between mankind 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 2** (3344I) 1 Credit  
Grade Level: 12 Advanced Grade Points  
Prerequisite: Acceptance into the International Baccalaureate Diploma Program and completion of IB Physics 1

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.

**Aquatic Science** (3327) 1 Credit  
Grade Level: 11-12 Level Grade Points  
Prerequisite: Biology and either Integrated Physics and Chemistry or Chemistry

Aquatic 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 an aquatic ecosystem; 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** (3345)

Grade Level: 11-12

Prerequisites: Biology, Chemistry or IPC

1 Credit  
Level Grade Points

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, reasons for the seasons, planets, the sun, stars, galaxies, cosmology, and space exploration.

**Earth and Space Science** (3348)

Grade Level: 11-12

Prerequisite: Biology and either Integrated Physics and Chemistry or Chemistry

1 Credit  
Level Grade Points

Earth and Space Science focuses on 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

**Environmental Systems** (03020000)

Grade Level: 10-11

1 Credit  
Level Grade Points

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)

Grade Level: 11-12

Prerequisite: Biology and either Integrated Physics and Chemistry or Chemistry

1 Credit  
Advanced Grade Points

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.

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.

**IB Environmental Systems & Societies** (3330I)

Grade Level: 12

Prerequisite: Acceptance into the International Baccalaureate

1 Credit  
Advanced Grade Points

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 purposes 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.

## CTE Courses That Count as a Science Credit

### Advanced Animal Science (CT110)

Grade Level: 11-12

Prerequisite: Recommended, one credit agricultural course

1 Credit Sci/CTE  
Level Grade Points

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

### Aeroscience I (CT1410)

Grade Level: 11-12

Prerequisite: Biology, Chemistry, or Physics Recommended: Engineering Design

1 Credit Sci/CTE  
Level Grade Points

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)

Grade Level: 12

Prerequisite: Aeroscience I

1 Credit Sci/CTE  
Level Grade Points

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 (CT750)

Grade Level: 11-12

Prerequisite: Biology and Chemistry

1 Credit Sci/CTE  
Advanced Grade Points

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 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 is 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)

Grade Level: 11-12

Prerequisite: Biology and Chemistry

1 Credit Sci/CTE  
Advanced Grade Points

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 Sci/CTE  
Grade Level: 11-12 Level Grade Points  
Prerequisites: Biology and Chemistry Recommended: Principles of Biosciences

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 Sci/CTE  
Grade Level: 11-12 Level Grade Points  
Prerequisite: Biology, Integrated Physics and Chemistry (IPC) or Chemistry

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

**Medical Microbiology** (CT705) 1 Credit/Sci.  
Grade Level: 10-12 Level Grade Points  
Prerequisite: Biology and Chemistry

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

**Pathophysiology** (CT707) 1 Credit Sci/CTE  
Grade Level: 11-12 Level Grade Points  
Prerequisite: Biology and Chemistry

Pathophysiology is a course 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 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 Sci/CTE  
Grade Level: 11-12 Level Grade Points  
Prerequisite: Biology, Integrated Physics and Chemistry (IPC) or Chemistry

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. This course counts for a third year science credit.

**TSTEM Engineering Design and Problem Solving** 1 Credit Sci/CTE  
Grade Level: 11-12 Level Grade Points

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.

## SOCIAL STUDIES

### **World Geography** (4411)

Grade Level: 9-12

Prerequisite: None

1 Credit  
Level Grade Points

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 Pre-AP** (4413)

Grade Level: 9-12

Prerequisite: None

1 Credit  
Advanced Grade Points

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)

Grade Level: 9-12

Prerequisite: None

1 Credit  
Advanced Grade Points

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.

### **World History** (4421)

Grade Level: 10-12

Prerequisite: None

1 Credit  
Level Grade Points

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)

Grade Level: 10-12

Prerequisite: None

1 Credit  
Advanced Grade Points

Advanced Placement World History is a course designed to aid students in obtaining advanced collegiate placement in world history. This course focuses primarily on the past thousand years of the global experience and builds on an understanding of cultural, institutional, and technological developments. 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)

Grade Level: 11-12

Prerequisite: None

1 Credit  
Level Grade Points

This course surveys the significant events, issues, and problems in United States History since Reconstruction, considering the causes and results, and attempting to show the students how they may be affected by similar situations. This course is assessed with an End of Course exam required for graduation.

### **AP United States History** (4434)

Grade Level: 11-12

Prerequisite: None

1 Credit  
Advanced Grade Points

The United States History Advanced Placement course surveys the events in United States History from the arrival of the Indians to the present.

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. This course is assessed with an End of Course exam required for graduation.

**Dual Credit United States History** (4431D) (Lone Star College HIST 1301, HIST 1302) 1 Credit  
Grade Level: 11-12 Advanced Grade Points  
Prerequisite: District recommendation and fulfillment of college admission requirements

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. This course may be taken online through Lone Star College. This course is assessed with an End of Course exam required for graduation.

**IB History** (4454I) 1 Credit  
Grade Level: 11 Advanced Grade Points

The first year of a two-year course sequence, IB History is designed to promote a deep understanding of the influences, the trends, and the impact found within the development of the Western World. A study of the Americas allows students to build their own understanding of historical fact while developing a mature perspective about the way current policy and practice influence modern-day living.

Students who take this course will take IB World Topics during the senior year, and consequently, the IB History of the American exam at the end of senior year. In addition to the exam, students will complete a historical investigation that allows students to demonstrate their understanding of history and the impact/influence of significant historical events on the international community. Students will self-select a topic and conduct research as a historian: reviewing conflicting interpretations of their topic and working towards an evaluation through a variety of research strategies.

**IB World Topics** (4455I) 1 Credit  
Grade Level: 12 Advanced Grade Points  
Prerequisite: Completion of IB History

The second year of a two-year course sequence, IB World Topics presents an in-depth view of significant twentieth century topics that created significant cultural, political and social impacts within our global community. Topics such as the Cold War; the causes, practices and effects of war; the state and its relationships with religion and minorities; decolonization and the challenges facing new states; the rise and rule of single party states; and nationalist and independence movements will be explored and discussed. In addition, students will focus on the development of various government systems and the way economics can guide the course of historical movements. The two-year course sequence satisfies the credits for Government and Economics.

**United States Government** (4441) ½ Credit  
Grade Level: 12 Level Grade Points  
Prerequisite: None

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** (4441D) (Lone Star College GOVT 2305)

Grade Level: 12

Prerequisite: Fulfillment of college admission requirements

1 Credit  
Advanced Grade Points

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. This course may be taken online through Lone Star College.

**AP Comparative Government and Politics** (446403)

Grade Level: 12

Prerequisite: None

½ Credit  
Advanced Grade Points

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)

Grade Level: 12

Prerequisite: None

½ Credit  
Advanced Grade Points

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)

Grade Level: 11-12

Prerequisite: None

1 Credit  
Advanced Grade Points

This elective course will examine the political-diplomatic, social-economic, and intellectual-cultural history of Europe from approximately 1450 to present. Successful completion of this course will prepare the student to take the Advanced Placement exam.

**Sociology** (4462)

Grade Level: 11-12

Prerequisite: None

½ Credit  
Level Grade Points

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)

Grade Level: 10-12

Prerequisite: None

½ Credit  
Level Grade Points

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)

Grade Level: 11-12

Prerequisite: None

½ Credit  
Level Grade Points

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



**Psychology Pre-AP/AP Introductory Psychology** (446103A/446103B)

Grade Level: 11-12  
Prerequisite: None

1 Credit  
Advanced Grade Points

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** (44611)

Grade Level: 11

1 Credit  
Advanced Grade Points

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** (44621)

Grade Level: 1

1 Credit  
Advanced Grade Points

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**

A student may take up to 4 Special Topics courses receiving up to 2 elective credits.

**Special Topics in Social Studies: History of Sports in the United States** (4472)

Grade Level: 10-12  
Prerequisite: None

½ Credit  
Level Grade Points

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)

Grade Level: 11-12  
Prerequisite: None

½ Credit  
Level Grade Points

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)

Grade Level: 12  
Prerequisite: None

½ Credit  
Level Grade Points

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** (4451)

Grade Level: 12

Prerequisite: None

½ Credit  
Level Grade Points

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)

Grade Level: 12

Prerequisite: None

½ Credit  
Advanced Grade Points

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.

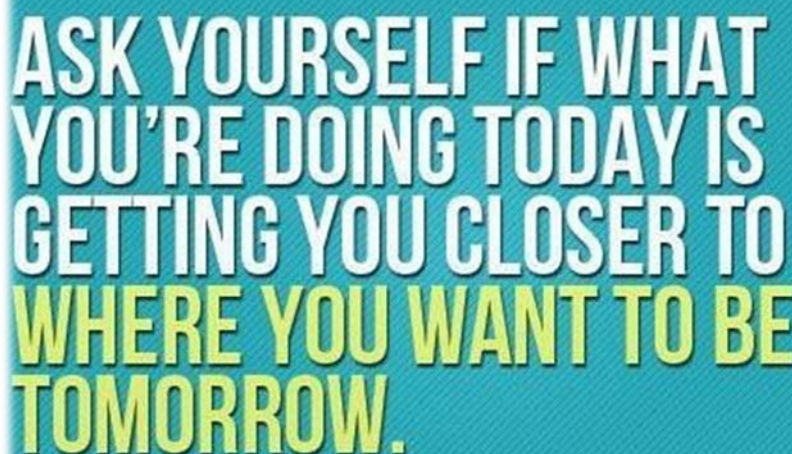
**Dual Credit Economics (Virtual)** (4451DV)

Grade: Level: 12

Prerequisite: Fulfillment of college admission requirements

½ Credit  
Advanced Grade Points

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.



ASK YOURSELF IF WHAT  
YOU'RE DOING TODAY IS  
GETTING YOU CLOSER TO  
WHERE YOU WANT TO BE  
TOMORROW.

## LANGUAGES OTHER THAN ENGLISH

**NOTE:** Many colleges have specific foreign language requirements. Therefore, prior to completing high school graduation requirements in foreign language, the student should check with the counselor and/or the college(s) of his/her choice. Some language courses may not be available at all campuses.

**French I** (5601) 1 Credit  
 Grade Level: 9-12 Level Grade Points  
 Prerequisite: None

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  
 Grade Level: 9-12 Level Grade Points  
 Prerequisite: French I

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 Pre-AP** (5604) 1 Credit  
 Grade Level: 9-12 Advanced Grade Points  
 Prerequisite: French I

Students in French II Pre-AP 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  
 Grade Level: 10-12 Level Grade Points  
 Prerequisite: French II

French III is a continuation of French II. The student will have a variety of listening experiences, be able to discuss subjects of everyday interest, and have a broadened knowledge of grammar. By studying selections of increasing literary value, the students will advance their reading skills and cultural understanding. Students will write original and guided compositions. Special assignments may include writing a paper, presenting poetry and skits, and writing letters.

**French III Pre-AP** (5606) (5606D) (Lone Star College FREN 2311) 1 Credit  
 Grade Level: 10-12 Advanced Grade Points  
 Prerequisite: French II

Students in French III Pre-AP 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** (5607) (5607D) (Lone Star College FREN 2312) 1 Credit  
 Grade Level: 11-12 Advanced Grade Points  
 Prerequisite: French III

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.

## LANGUAGES OTHER THAN ENGLISH, Cont.

### **IB French 1 – Ab Initio** (5601I)

Grade Level: 11

Prerequisite: Acceptance into the International Baccalaureate Diploma Program

1 Credit  
Level Grade Points

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 2 – Ab Initio** (5603I)

Grade Level: 12

Prerequisite: Acceptance into the International Baccalaureate Diploma Program

1 Credit  
Advanced Grade Points

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 4** (5607I)

Grade Level: 11-12

Prerequisite: Acceptance into the International Baccalaureate Diploma Program, completion of French 1, 2 and 3

1 Credit  
Advanced Grade Points

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 5** (5608I)

Grade Level: 12

Prerequisite: Acceptance into the International Baccalaureate Diploma Program, completion of IB French 4

1 Credit  
Advanced Grade Points

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.

## LANGUAGES OTHER THAN ENGLISH, Cont.

### **German I** (5611)

Grade Level: 9-12  
Prerequisite: None

1 Credit  
Level Grade Points

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)

Grade Level: 10-12  
Prerequisite: German I

1 Credit  
Level Grade Points

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 Pre-AP** (5614)

Grade Level: 10-12  
Prerequisite: German I

1 Credit  
Advanced Grade Points

German II Pre-AP 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 implement fully the grammar and vocabulary learned in the textbook. Special cultural projects will also be assigned.

### **German III** (5615)

Grade Level: 11-12  
Prerequisite: German II

1 Credit  
Level Grade Points

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 Pre-AP** (5616) (5616D)

Grade Level: 11-12  
Prerequisite: German II

1 Credit  
Advanced Grade Points

German III Pre-AP 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 Pre-AP 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 contest. Dual credit from Lone Star College is available.

### **German IV AP Language** (5617) (5617D)

Grade Level: 12  
Prerequisite: German III

1 Credit  
Advanced Grade Points

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.

## LANGUAGES OTHER THAN ENGLISH, Cont.

### **Latin I** (5621)

Grade Level: 9-12  
Prerequisite: None

1 Credit  
Level Grade Points

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)

Grade Level: 10-12  
Prerequisite: Latin I

1 Credit  
Level Grade Points

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 Pre-AP** (5624)

Grade Level: 10-12  
Prerequisite: Latin I

1 Credit  
Advanced Grade Points

Latin II Pre-AP 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 Pre-AP** (5626)

Grade Level: 11-12  
Prerequisite: Latin II

1 Credit  
Advanced Grade Points

The primary authors studied in Latin III Pre-AP 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 the literature. Major projects are due each semester.

### **Latin IV AP Vergil** (5628)

Grade Level: 12  
Prerequisite: Latin III

1 Credit  
Advanced Grade Points

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)

Grade Level: 10-12  
Prerequisite: None

½ Credit  
Level Grade Points

This semester long class emphasizes vocabulary and linguistic skills as well as culture so 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

Grade Level: 9-12 Level Grade Points  
Prerequisite: None

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.

## LANGUAGES OTHER THAN ENGLISH, Cont.

### **Spanish I and II for Spanish Speakers** (5641)

Grade Level: 9-12

Prerequisite: Meet the Humble ISD Placement Test criteria/Spanish teacher recommendation

2 Credits

Level Grade Points

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)

Grade Level: 9-12

Prerequisite: Spanish I

1 Credit

Level Grade Points

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 Pre-AP** (5634)

Grade Level: 9-12

Prerequisite: Meet the Humble ISD Placement Test criteria.

1 Credit

Advanced Grade Points

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.

**Pre-AP 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) (5635V) (Lone Star College SPAN 2311)

Grade Level: 9-12

Prerequisite: Spanish II

1 Credit

Level Grade Points

The rigor of this course is designed to prepare students on the path to take college credit courses. In this class students will develop 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.

## LANGUAGES OTHER THAN ENGLISH, Cont.

### **Spanish III Pre-AP** (5636) (5636D) (Lone Star College SPAN 2311)

Grade Level: 9-12

Prerequisite: Spanish II Pre-AP or Spanish I and II for Spanish Speakers

1 Credit  
Advanced Grade Points

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** (5642)

Grade Level: 9-12

Prerequisite: Spanish II Pre-AP, Spanish I/II for Spanish Speakers, meet the Humble ISD Placement Test Part A and B criteria/Teacher recommendation.

2 Credits  
Advanced Grade Points

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** (5637) (5637D) (563734) (5637V) (Lone Star College SPAN 2312)

Grade Level: 9-12

Prerequisite: Spanish III, Spanish III Pre-AP

1 Credit  
Advanced Grade Points

The rigor of this class is designed to prepare students to take the AP Spanish Language and Culture assessment or successfully 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.



## LANGUAGES OTHER THAN ENGLISH, Cont.

### **Spanish V** (5638 D)

Grade Level: 9-12

Prerequisite: Spanish IV AP or Spanish III and IV for Native Speakers.

1 Credit  
Advanced Grade Points

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)

Grade Level: 9-12

Prerequisite: Spanish IV AP or Spanish III and IV for Native Speakers.

1 Credit  
Advanced Grade Points

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 internet/ computer (can use library during available times).

## **Spanish IB Courses**

### **IB Spanish 4 – Ab Initio** (5631I)

Grade Level: 11

Prerequisite: Acceptance into the International Baccalaureate Diploma Program

1 Credit  
Level Grade Points

IB Spanish 4 – 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 5 – Ab Initio** (5634I)

Grade Level: 12

Prerequisite: Acceptance into the International Baccalaureate Diploma Program

1 Credit  
Advanced Grade Points

IB Spanish 5 – Ab Initio is the second year of a two-year entry level Spanish course that allows IB students who have 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 6** (5637I) 1 Credit  
Grade Level: 9-12 Advanced Grade Points  
Prerequisite: Acceptance into the International Baccalaureate Diploma Program

IB Spanish 6 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 purpose. 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 7** (5638I) 1 Credit  
Grade Level: 12 Advanced Grade Points  
Prerequisite: Acceptance into the International Baccalaureate Diploma Program, completion of IB Spanish 6

IB Spanish 7 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) Limited space available. 1 Credit  
Grade Level: 9-12 Level Grade Points  
Prerequisite: None

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 work force, 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  
Grade Level: 10-12 Level Grade Points  
Prerequisite: American Sign Language I

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  
Grade Level: 11-12 Level Grade Points  
Prerequisite: American Sign Language II

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  
Grade Level: 11-12 Advanced Grade Points  
Prerequisite: American Sign Language III

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

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.

## FINE ARTS

Students may fulfill fine arts and/or elective requirements for graduation by successfully completing the following fine arts courses. All spring semester fine arts courses are a continuation of the knowledge and skills learned in the fall semester. Therefore, fall semester must precede spring semester.

**NOTE: Students considering Advanced Placement courses should review course selection prerequisite requirements.**

### Visual Arts

**Art I - General** (5705)

Grade Level: 9-12

Prerequisite: None

1 Credit  
Level Grade Points

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. (See Index/Fees.)

**Art - Drawing II** (5711)

Grade Level: 10-12

Prerequisite: Art I

1 Credit  
Level Grade Points

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. (See Index/Fees.)

**Art - Painting II** (5712)

Grade Level: 10-12

Prerequisite: Art I

1 Credit  
Level Grade Points

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. (See Index/Fees.)

**Art - Sculpture II** (5713)

Grade Level: 10-12

Prerequisite: Art I

1 Credit  
Level Grade Points

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. (See Index/Fees.)

## FINE ARTS (Visual), Cont.

### **Art - Painting III** (5722)

Grade Level: 11-12

Prerequisite: Painting II

1 Credit  
Level Grade Points

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. (See Index/Fees.)

### **Art - Sculpture III** (5723)

Grade Level: 11-12

Prerequisite: Sculpture II

1 Credit  
Level Grade Points

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 subject. Media selection by students may require additional supplies not furnished through assessed fees. The fee for this full-year course is \$60.00. (See Index/Fees.)

### **Art - Drawing III** (5721)

Grade Level: 11-12

Prerequisite: Drawing II

1 Credit  
Level Grade Points

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. (See Index/Fees.)

### **Art – Painting IV** (5724)

Grade Level: 12

Prerequisite: Painting III

1 Credit  
Level Grade Points

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)

Grade Level: 12

Prerequisite: Sculpture III

1 Credit  
Level Grade Points

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 IV** (5731)

Grade Level: 12

Prerequisite: Drawing III

1 Credit  
Level Grade Points

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. (See Index/Fees.)

## FINE ARTS (Visual), Cont.

### **Art - Drawing - Advanced Placement** (5733)

Grade Level: 11-12

Prerequisite: Drawing II & Painting II

1 Credit  
Advanced Grade Points

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. (See Index/Fees.)

### **Art – Two Dimensional Design Portfolio - Advanced Placement** (5734)

Grade Level: 11-12

Prerequisite: Drawing II or Painting III

1 Credit  
Advanced Grade Points

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. (See Index/Fees.)

### **Art – Three Dimensional Design Portfolio - Advanced Placement** (5735)

Grade Level: 11-12

Prerequisite: Sculpture II

1 Credit  
Advanced Grade Points

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. (See Index/Fees.)

### **Floral Design** (CT120)

Grade Level: 10-12

Prerequisite: None

1 Credit/FA  
Level Grade Points

To be prepared for careers in the floral design, students need to 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. This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. There is a lab fee associated for this class. The following course could lead to an industry certification. This course may satisfy the fine arts credit for graduation.

### **IB Art I** (5721I)

Grade Level: 11-12

Prerequisite: Acceptance into the International Baccalaureate Diploma Program

1 Credit  
Advanced Grade Points

IB Art 1 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)  
Grade Level: 12

1 Credit  
Advanced Grade Points

IB Art 2 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.

## HUMBLE ISD SECONDARY VISUAL ART FEES

HS CAMPUS	ART I	DRAWING II III IV	PAINTING II III IV	SCULPTURE II III IV	AP	IB
SCHS	\$50.00	\$60.00	\$60.00	\$60.00	\$85.00	NA
AHS	50.00	60.00	60.00	60.00	85.00	NA
HHS	50.00	60.00 (II III) 80.00 (IV)	60.00 (II III) 80.00 (IV)	60.00 (II III) 80.00 (IV)	85.00	90.00
KHS	50.00	60.00	60.00	60.00	85.00	NA
KPHS	50.00	60.00(II) 80.00 (III IV)	60.00(II) 80.00 (III IV)	60.00(II) 80.00 (III IV)	85.00	NA

## Dance

Students may fulfill fine arts or elective requirements for graduation by successfully completing the following Dance courses. Students who successfully complete Dance I will receive 1 credit of a Fine Art and may also be awarded 1 credit of Aerobic Activities, a PE Credit.

Students enrolled in Dance II, III, and IV are placed in one of several ability level ensembles based on an audition process that includes a student's demonstration of technical proficiency skills, leadership skills, personal commitment and reliability to ensemble requirements, academic teacher evaluations, eligibility evaluation, ensemble personnel limitations and not related to the number of years in Dance.

Students selected for ensembles that comprise the Varsity Drill Team perform at numerous/scheduled athletic events, community events, competitions, and select festivals, with other dance ensembles performing at limited/scheduled community and school-related events. All dance ensembles require scheduled rehearsals after school hours. Attendance is required at all after-school rehearsals and performances as a part of the graded curricula.

**Additional costs for Dance include the purchase of some additional uniform/practice accessories, uniform alteration expenses, maintenance and cleaning expenses, as well as possible expenses related to loss and/or damage of school owned equipment. Specific costs may be obtained from the Dance director at your school.**

### **Dance I** (5741, 5745)

Grade Level: 9-12  
Prerequisite: None

1 Credit  
Level Grade Points

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)

Grade Level: 10-12  
Prerequisite: Dance I

1 Credit  
Level Grade Points

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)

Grade Level: 11-12  
Prerequisite: Dance II

1 Credit  
Level Grade Points

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.

## FINE ARTS (Dance), Cont.

### **Dance IV** (5744, 5748)

Grade Level: 11-12

Prerequisite: Dance III

1 Credit  
Level Grade Points

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.

### **International Baccalaureate Dance SL** (57431)

Grade Level: 11-12

1 Credit  
Advanced Grade Points

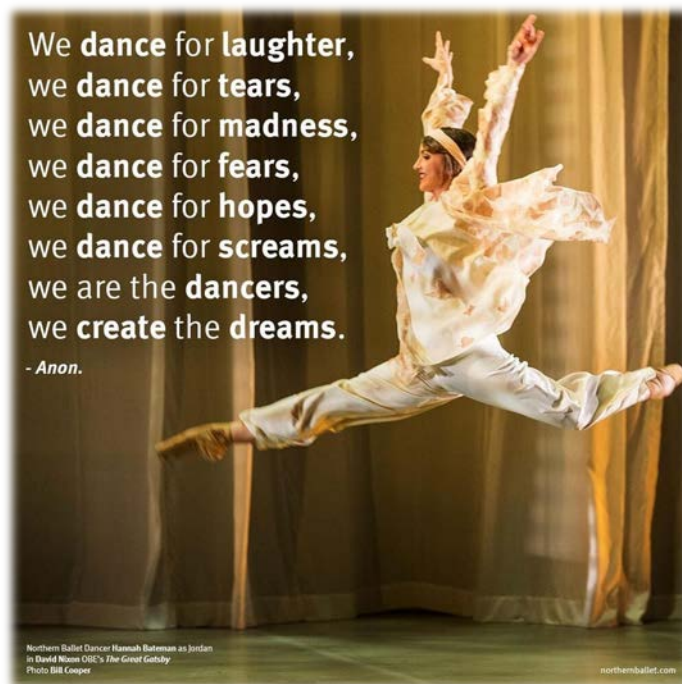
Consistent with the educational philosophy of the IB, the Diploma Programme dance curriculum aims for a holistic approach to dance, and embraces a variety of dance traditions and dance cultures—past, present and looking towards the future. Performance, creative and analytical skills are mutually developed 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.

### **International Baccalaureate Dance HL** (57441)

Grade Level: 12

1 Credit  
Advanced Grade Points

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.





## Band

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. (See Index/Physical Education.)

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. (See Index/Fees.)

### **Band I** (5751)

Grade Level: 9-12  
Prerequisite: None

1 Credit  
Level Grade Points

### **Band II** (5752)

Grade Level: 10-12  
Prerequisite: Band I

1 Credit  
Level Grade Points

### **Band III** (5753)

Grade Level: 11-12  
Prerequisite: Band II

1 Credit  
Level Grade Points

### **Band IV** (5754)

Grade Level: 12  
Prerequisite: Band III

1 Credit  
Level Grade Points



FINE ARTS (Music), Cont.

**Applied Music - Band**

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.

**Applied Music I - Band** (5759)

Grade Level: 11-12

Prerequisite: Concurrent enrollment in band.

1 Credit  
Level Grade Points

**Applied Music II - Band** (5760)

Grade Level: 12

Prerequisite: Applied Music I and concurrent enrollment in band.

1 Credit  
Level Grade Points

**Orchestra**

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. (See Index/Fees.)

**Orchestra I** (5771)

Grade Level: 9-12

Prerequisite: None

1 Credit  
Level Grade Points

**Orchestra II** (5772)

Grade Level: 10-12

Prerequisite: Orchestra I

1 Credit  
Level Grade Points

**Orchestra III** (5773)

Grade Level: 11-12

Prerequisite: Orchestra II

1 Credit  
Level Grade Points

**Orchestra IV** (5774)

Grade Level: 12

Prerequisite: Orchestra III

1 Credit  
Level Grade Points

FINE ARTS (Music), Cont.

**Applied Music - Orchestra**

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.

**Applied Music I - Orchestra (5779)** 1 Credit  
Grade Level: 11-12 Level Grade Points  
Prerequisite: Concurrent enrollment in Orchestra

**Applied Music II - Orchestra (5780)** 1 Credit  
Grade Level: 12 Level Grade Points  
Prerequisite: Applied Music I and concurrent enrollment in Orchestra

**Choral Music**

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 (Humble High School only) 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. (See Index/Fees.)**

**Choir I (5761)** 1 Credit  
Grade Level: 9-12 Level Grade Points  
Prerequisite: None

**Choir II (5762)** 1 Credit  
Grade Level: 10-12 Level Grade Points  
Prerequisite: Choir I

**Choir III (5763)** 1 Credit  
Grade Level: 11-12 Level Grade Points  
Prerequisite: Choir II

**Choir IV (5764)** 1 Credit  
Grade Level: 12 Level Grade Points  
Prerequisite: Choir III

## FINE ARTS (Music), Cont.

### Vocal Ensemble

Group and individual technical skills are learned as a continuation of Choir through daily rehearsal and practice. Students receive one additional unit in music as an elective choice toward graduation requirements. Performance expectations in Vocal Ensemble require students to have a high level of vocal proficiency as demonstrated by the completion of at least one year of study in an advanced level High School choral program. Students receive one (1) additional unit in music as an elective choice toward state graduation requirements. 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.

#### **Vocal Ensemble I** (5765)

Grade Level: 10-12

Prerequisite: Concurrent enrollment in choir.

1 Credit  
Level Grade Points

#### **Vocal Ensemble II** (5766)

Grade Level: 11-12

Prerequisite: Vocal Ensemble I and concurrent enrollment in choir

1 Credit  
Level Grade Points

#### **Vocal Ensemble III** (5767)

Grade Level: 12

Prerequisite: Vocal Ensemble II and concurrent enrollment in choir

1 Credit  
Level Grade Points

### Applied Music - Choir

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.

#### **Applied Music I - Choir** (5782)

Grade Level: 11-12

Prerequisite: Concurrent enrollment in choir

1 Credit  
Level Grade Points

#### **Applied Music II - Choir** (5784)

Grade Level: 11-12

Prerequisite: Applied Music I and concurrent enrollment in choir

1 Credit  
Level Grade Points

### Music Theory

#### **Music Theory Pre-AP** (577802)

Grade Level: 9-12

Prerequisite: None

1 Credit  
Advanced Grade Points

Music Theory PreAP/PreIB is the study and application of the foundational pieces of Music Theory.

#### **Music Theory - Advanced Placement** (5783)

Grade Level: 11-12

Prerequisite: None

1 Credit  
Advanced Grade Points

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.

## FINE ARTS (Music), Cont.

### **IB Music Theory I** (57821)

Grade Level: 11-12

Prerequisite: Enrolled in Top Band, Choir, or Orchestra and accepted into the International Baccalaureate Diploma Program

1 Credit

Advanced Grade Points

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)

Grade Level: 12

Prerequisite: Enrolled in Top Band, Choir, or Orchestra and accepted into the International Baccalaureate Diploma Program

1 Credit

Advanced Grade Points

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.

## Theatre Arts

### **Theatre Arts I** (5786)

Grade Level: 9-12

Prerequisite: None

1 Credit

Level Grade Points

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. This course is a prerequisite for Theatre Arts II or Technical Theatre II.

### **Technical Theatre I** (5791)

Grade Level: 9-12

Prerequisite: None

1 Credit

Level Grade Points

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.

### **Costuming Tech Theatre I** (579100)

Grade Level: 9-12

Prerequisite: None

1 Credit

Level Grade Points

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.

## FINE ARTS (Theatre Arts), Cont.

### **Theatre Arts II** (5787)

Grade Level: 10-12

Prerequisite: Theatre Arts I

1 Credit  
Level Grade Points

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)

Grade Level: 10-12

Prerequisite: Theatre Arts I or Technical Theatre I

1 Credit  
Level Grade Points

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)

Grade Level: 11-12

Prerequisite: Theatre Arts II

1 Credit  
Level Grade Points

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)

Grade Level: 11-12

Prerequisite: Technical Theatre II

1 Credit  
Level Grade Points

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)

Grade Level: 12

Prerequisite: Theatre Arts III

1 Credit  
Level Grade Points

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.

## FINE ARTS (Theatre Arts), Cont.

### **Technical Theatre IV** (5794)

Grade Level: 12

Prerequisite: Technical Theatre III

1 Credit  
Level Grade Points

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.

### **International Baccalaureate Film SL** (N1290320)

Grade Level: 11-12

1 Credit  
Advanced Grade Points

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.

### **International Baccalaureate Film HL** (N1290321)

Grade Level: 12

1 Credit  
Advanced Grade Points

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.

### **International Baccalaureate Theatre Arts SL** (57881)

Grade Level: 11-12

1 Credit  
Advanced Grade Points

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 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.

### **International Baccalaureate Theatre Arts HL** (57891)

Grade Level: 12

1 Credit  
Advanced Grade Points

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

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.





## SPEECH

### **Communication Applications** (1170)

Grade Level: 9-12  
Prerequisite: None

½ Credit  
Level Grade Points

Communication Applications allows students to explore basic fundamental aspects of all forms of verbal and non-verbal 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) KPHS & SCHS only

Grade Level: 9-11  
Prerequisite: None

½ Credit  
Level Grade Points

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)

Grade Level: 9-12  
Prerequisite: None

1 Credit  
Level Grade Points

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 availability of a certified communication applications teacher at the school and enrollment in the course for the full year.

### **Debate II** (1178)

Grade Level: 10-12  
Prerequisite: Debate I

1 Credit  
Level Grade Points

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)

Grade Level: 11-12  
Prerequisite: Debate II

1 Credit  
Level Grade Points

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)

Grade Level: 12  
Prerequisite: Debate III

1 Credit  
Level Grade Points

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** (5580)

Grade Level: 9-12  
Prerequisite: None

½ Credit  
Level Grade Points

Health is designed to give students practical knowledge that will help them keep physically fit and mentally healthy throughout their lives. The scope of this course includes three-week studies of each of the following: Chemical substance abuse (Drugs, Alcohol, Tobacco), Current health issues (Research Papers and Oral Presentations), Education in healthy sexuality (Relationships, Reproduction, Family Planning, Sexually Transmitted Diseases), Emergency care (CPR, First Aid), Healthful lifestyles (Nutrition, Fitness), Mental and social health (Teen Suicide and Stress Management), Healthy relationships (dating violence warning signs and prevention, dealing with negative peer pressure, etc.)

An optional parent orientation is held each semester prior to the beginning of the Healthy Sexuality Unit. Parents are introduced to the curriculum, shown examples of lessons, and given an opportunity to ask any questions. A parent signature is required for the student to participate in this unit.



## PHYSICAL EDUCATION

Students are required to earn 1 credit of physical education to graduate.

As allowed by Chapter 74 of the Texas Administrative Code and provided through Humble ISD Board Policy (EIF), students may substitute certain physical activities for graduation credits required in physical education including the Foundations of Personal Fitness course. The following physical activities will substitute ½ credit per semester toward the physical education state graduation requirements.

Approved Off-Campus Physical Education  
Athletics  
Cheerleading (fall semester only) (up to 1 credit allowed total)  
Drill Team  
JROTC  
Marching Band (fall semester only)

For those students participating in a quality physical activity program that is supervised by a certified instructor outside of school, the district allows an off-campus physical education program to substitute for regular physical education. There are two categories in which a student may participate in off-campus physical education. We offer Category 1 exemptions which require a minimum of 15 hours per week of “Olympic style” training. If a student is approved for Category 1 exemption, they must leave campus one period prior to the end of the day or not check in to school until the second period of the day. There will be no supervised areas for these students to stay on campus for the unassigned class period thus resulting in immediate dismissal of the OCPE Program. Applications can be found on the district website under the Physical Education department. Approval is granted at the district level based on the training situation. **Category two** requires five (5) hours per week, Monday through Friday, and the student **will not** be permitted to arrive late or be dismissed early from school. \* Application should be made prior to June 1 for the upcoming school year in order to allow scheduling options for an additional elective. Applications received after the first three weeks in a semester will only be considered for the following semester. For additional information and application forms, please contact Helen Wagner, Coordinator of PE/Health.

### **Foundations of Personal Fitness** (5501)

Grade Level: 9-12

Prerequisite: None

Activities: Weight training, jogging, walking, aerobics, personal fitness planning

½ - 1 Credit  
Level Grade Points

The physical education student develops the knowledge and skills needed to take responsibility for his/her own fitness levels. The student will successfully benefit from an intense program of physical activity and fitness conditioning. Each student will assess his/her own level of fitness and progress during the course. The differences between health-related and skill-related fitness will also be examined.

### **Team Sports** (5502)

Grade Level: 9-12/

Prerequisite: None

Activities: Basketball, volleyball, soccer, flag football, softball, floor hockey, badminton, pickle ball

½ - 1 Credit  
Level Grade Points

The student will be introduced to a variety of team sports. This class will offer concepts, strategies, rules, and physical activity. Cardiovascular fitness will be incorporated into each unit. Upon completion of this course, the student will have learned skills necessary to perform a variety of successful physical activities.

### **Individual Sports** (5503)

Grade Level: 10-12

Prerequisite: None

Activities: Badminton, bowling, table tennis, archery, aquatics, weight training, tennis, track and field, and golf

½ - 1 Credit  
Level Grade Points

The student will participate in individual sports that can be pursued for a lifetime. Health-related fitness will be incorporated into each unit.

**Integrated Athletics I,II,III, IV** (55101,55102,55103,55104)

Grade Level: 9-12  
Prerequisite: None

1 Credit  
Level Grade Points

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.

**Yoga**

Grade Level: 9-12  
Prerequisite: None

½ - 1 Credit

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.

**PHYSICAL EDUCATION, Cont.**

**Adventure/Outdoor Education** (5507)

Grade Level: 9-12  
Prerequisite: None

½ Credit  
Level Grade Points

In this elective course, students will develop competency in outdoor education activities that provide opportunities for enjoyment and challenge and will promote respect for the environment. Activities: camping, hiking, orienteering, water sports, angling (fishing), outdoor cooking, backpacking, archery. Class size will be limited to 24 students. The ability to swim is recommended.

**Aerobics Activities** (5509)

Grade Level: 9-12

½ - 1 Credit  
Level Grade Points

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.

**ATHLETICS**

**Athletics I, II, III, IV** (5511-5577)

Grade Level: 9-12  
Prerequisite: Participating in Sport

½ Credit per semester  
Level Grade Points

All athletic programs are designed to prepare students for competition in specific sports. Athletic classes meet during the school day with seasonal practices also being required outside school hours. The University Interscholastic League Competition and Contest Rules regulate all athletic classes, practices, and contests. Student athletes representing the Humble Independent School District must also adhere to district athletic policies. Available athletic programs include baseball, basketball, cross-country, diving, football, golf, soccer, softball, swimming, tennis, track, volleyball, wrestling, and sports medicine/athletic training. Tryout procedures will be conducted in programs where limitations exist concerning safety, equipment, supervision, and facilities.

## CHEERLEADING

**Cheerleading** (5506)

Grade Level: 9-12

Prerequisite: Freshman, Sophomore, Junior Varsity, or Varsity Cheerleader Squad Member

½ Credit

Level Grade Points

This course is designed primarily for students selected to perform on Freshman, Sophomore, Junior Varsity, or Varsity Cheerleading Squads. This class meets during the school day and consists of conditioning activities, skill development in several cheerleading and gymnastic techniques, and specific preparation for game and competition performances. Special emphasis on collegiate style cheerleading skills in partner stunting and pyramids will be given to Coed squads. Students gain membership through a try-out procedure held during the spring of the previous school year. This program may substitute for the 1 unit required for physical education (Fall semester only). Spring semester counts toward local credit only.

# JUNIOR ROTC

## ARMY JUNIOR ROTC at Humble High School

Students may fulfill State graduation physical education and/or elective requirements by successfully completing the following Junior ROTC courses. A maximum of 1 credit may be substituted for the physical education graduation requirement with the remaining Junior ROTC credits applying toward elective graduation requirements. The following courses could lead to an industry certification. (See Index/Physical Education.)

**LET I** (5850) 1 Credit  
Grade Level: 9 Level Grade Points  
Prerequisite: None

**Foundation of Army JROTC and Getting Involved:** JROTC and patriotic introduction  
**Being a Leader-Leadership Lab:** Leadership defined, Principals of leadership, Leading from inside out  
**Know Yourself, Study Skills, Communication Skills, Conflict Resolution, and Appreciating Diversity, Becoming an Active Leader.**  
**Achieving a Healthy Lifestyle, First Aid Emergencies, Drug Awareness, Substance Abuse Prevention**  
**The Globe:** The Globe and Overview  
**You the People-The Citizenship Skill:** Your job as an American Citizen

**LET II** (5851) 1 Credit  
Grade Level: 10 Level Grade Points  
Prerequisite: LET I

*Recap LET I*

**Know How to Lead:** Power Bases + Influence, Styles of Leadership, Management Skills, Motivation Development  
**Know Yourself, Communication Skills, Conflict Resolution, Teaching Skills, Social Responsibility**  
**Achieving a Healthy Lifestyle, First Aid Emergencies, Drug Awareness, Substance Abuse Prevention**  
**Maps, Map Reading, and Land Navigation:** Introduction to Maps  
*The Citizen Action Group Process, The Founding of a Nation, Growth of a Nation, Sources of Power*

**LET III** (5852) 1 Credit  
Grade Level: 11 Level Grade Points  
Prerequisite: LET II

**Recap LET II/The Nation's Defense Forces:** DOD, Army, Navy, Air Force, Marines, Coast Guard, Merchant Marine  
**Leading Situations:** Performance Indicators, Negotiating Decision Making, Planning Battalion Formations  
**Conflict Resolution, Career Planning, Planning Skills, Financial Planning, Mediation, Emotional Intelligence, Service Learning.**  
**Taking the Cadet Challenge:** Fitness  
**Orienteering:** Elementary Orienteering, Environmental Awareness, Exploring the World  
**The Federal Judicial System:** Enforcing the Law, John Marshall and Judicial Review

**LET IV** (5853) 1 Credit  
Grade Level: 12 Level Grade Points  
Prerequisite: LET III

*Recap LET III*

**Leading Situations:** Leading Meetings, Supervising, Team Development, Project Management, Mentoring  
**College/Career Planning, Planning Skills, Making a Difference through Service, Emotional Intelligence, Creating a Portfolio**  
**Taking the Cadet Challenge:** Fitness  
**Orienteering:** Intermediate Orienteering, Environmental Issues, Exploring the World  
**Local Issues and Answers:** Democracy and Freedom, Local Government, Presidential Power

## NAVY JUNIOR ROTC at Kingwood High School

Students may fulfill state graduation physical education and/or elective requirements by successfully completing the following Navy Junior ROTC Course. A maximum of 1 credit may be substituted for the physical education graduation requirement with the remaining Junior ROTC credit applying toward elective graduation requirements. The following courses could lead to an industry certification. (See Index/Physical Education.)

**Navy Science I** (5850) 1 Credit  
Grade Level: 9-12 Level Grade Points  
Prerequisite: None

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 it benefits to the cadets.

Leadership Lab: Military Drill

**Navy Science II** (5851) 1 Credit  
Grade Level: 9-12 Level Grade Points  
Prerequisite: Recommended, Navy Science I

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  
Grade Level: 9-12 Level Grade Points  
Prerequisite: Recommended, Navy Science III

Navy knowledge and skills for the NJROTC 3<sup>rd</sup> 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  
Grade Level: 9-12 Level Grade Points  
Prerequisite: Recommended, Navy Science V

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 Marshal and Judicial Review.

Leadership Lab: Military Drill and Team Building, Oral Communication, Written Communication, Understanding and Evaluating Performance

**All PREREQUISITE: Can be waived by the SNSI.**

### **COSTS: None**

Students will be expected 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, and community service.

### **SPECIAL INFORMATION**

Each NJROTC Cadet who completes 4yr in NJROTC can compete for selection to receive the US Navy Academic and NROTC Scholarship.

## AIR FORCE JUNIOR ROTC at Kingwood Park High School

Air Force Junior ROTC (AFJROTC) Aerospace Science is a 4 year program designed to provide each cadet with the skills necessary to become successful in business, college or in any branch of the military. AFJROTC fulfills the state graduation physical education and/or elective requirements. A maximum of 1 credit may be substituted for the physical education graduation requirements and the remaining AFJROTC credit can be applied as electives. Semesters in AFJROTC can be used to obtain advanced rank in the military services.

AFJROTC Courses are presented on a rotational basis; therefore most courses do not require prerequisite for the standard AFJROTC Courses. The advance courses will require certain prerequisites and only a limited number of those cadets meeting those prerequisites will be accepted into those programs. The following courses could lead to an industry certification.

### **Aerospace Science I** (5850)

Grade Level: 9-12

Prerequisite: None

1 Credit  
Level Grade Points

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 and courtesies and elements of good citizenship. Drill and Ceremonies.

WELLNESS – Team leadership and wellness component.

### **Aerospace Science II** (5851)

Grade Level: 9-12

Prerequisite: None

1 Credit  
Level Grade Points

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)

Grade Level: 9-12

Prerequisite: None

1 Credit  
Level Grade Points

AS300 (FALL SEMESTER) The Exploration of Space: Examines the planets, latest advances in space technology, and continuing challenges of space and manned spaceflights

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)

Grade Level: 9-12

Prerequisite: None

1 Credit  
Level Grade Points

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



## AIR FORCE JUNIOR ROTC, Cont.

### **Drill and Ceremonies** (5844)

Grade Level: 9-12

Prerequisite: Concurrent enrollment in AFJROTC 1, 2, 3, or 4

½ credit

Level Grade Points

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

Students may fulfill State graduation physical education and/or elective requirements by successfully completing the following Junior ROTC courses. A maximum of 1.0 credit may be substituted for the physical education graduation requirement with the remaining Junior ROTC credits applying toward elective graduation requirements. The following courses could lead to an industry certification. (See Index/Physical Education.)

### **LE I** (5850)

Grade Level: 9

Prerequisite: None

1 Credit

Level Grade Points

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)

Grade Level: 10

Prerequisite: LE I recommended

1 Credit

Level Grade Points

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)

Grade Level: 11

Prerequisite: LE II recommended

1 Credit

Level Grade Points

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.

**LE IV** (5853)

Grade Level: 12

Prerequisite: LE III recommended

1 Credit  
Level Grade Points

JROTC IV builds on all previous years' experience by allowing cadets to be assigned the highest levels 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: Student may be required to pay a course fee for cadet planners and any additional person physical training uniforms required.** 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

**As a course requirement, students are required to have a flash drive to store their work.**

Enrollment is limited. These courses may not be offered at all campus locations. See your counselor for details.

### **Computer Science I** (0800)

Grade Level: 10-12

Prerequisite: Algebra I

1 Credit  
Level Grade Points

This is an initial course in problem solving, programming logic, and sequencing using the Java programming language. The content includes programming methodology, study of algorithms, data types and structures, applications of computing, concepts associated with computer systems, and social implications of computing technology. Students who can plan a career in math or science fields such as engineering, software design, research, or computer science will find this course beneficial. This is both a college prep course for potential Computer Science majors and a foundation course for other technical fields. The fee for this course is \$10.00.

### **Advanced Placement Computer Science II** (0807)

Grade Level: 11-12

Prerequisite: Computer Science I and/or concurrent Algebra 2

1 Credit  
Honor Grade Points

The fee for this course is \$10.00.

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.



# CAREER AND TECHNICAL EDUCATION COURSES

The following is a link to the CTE Course Flow Charts: [humbleisd.net/CTE](http://humbleisd.net/CTE)

## COURSE LISTINGS **AGRICULTURE, FOOD AND NATURAL RESOURCES**

### AGRICULTURE, FOOD AND NATURAL RESOURCES

Coordinated group and individual instructional activities consisting of classroom and laboratory experiences, supervised agricultural experiences, and leadership activities are included in this comprehensive secondary program. The program is designed to develop competencies needed by high school students desiring to or preparing to enter agricultural, food, and natural resources occupations. Agricultural employment includes all jobs that require agricultural competencies or essential knowledge and skills needed in producing, managing, processing, marketing, distributing, regulating, or protecting any of the renewable natural resources-about 20% of the Gross National Product (GNP). Sixty percent (60%) of all activities are shop/lab activities. All classes are located at the high school.

FFA activities are an integral part of the Agricultural Science and Technology education program. Opportunities for developing skills in leadership, cooperation, and citizenship are provided through extension of classroom/laboratory learning experiences by membership and participation in this student leadership organization.

#### **FIFTEEN RELATED CAREERS**

Agricultural Scientist	Hazardous Material Technical Coordinator	Range Manager
Cooperative Extension Service	Agricultural Engineer	Veterinary Technician
Fish and Game Warden	Biological Scientist	Technical Sales Rep. (Agricultural)
Landscape Architect	Farmer/Farmer Manager	Quality Control/Technician-Food Crop Protection
Teacher, Career and Technical Education	Forester and Conservation Scientist	Veterinarian

#### **Advanced Animal Science** (CT110)

Grade Level: 11-12

Prerequisite: Recommended, one credit agricultural course

1 Credit/Sci  
Level Grade Points

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

#### **Agricultural Mechanics and Metal Technologies** (CT126)

Grade Level: 10-12

Prerequisite: None

1 Credit  
Level Grade Points

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

## COURSE LISTINGS AGRICULTURE, FOOD AND NATURAL RESOURCES

### **Agricultural Structures Design and Fabrication** (CT127)

Grade Level: 11-12  
Prerequisite: None

1 Credit  
Level Grade Points

To be prepared for careers in mechanized agriculture and technical systems, students attain knowledge and skills related to agricultural facilities design and fabrication. Students explore career opportunities, entry requirements, and industry expectations. To prepare for success, students reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings.

### **Floral Design** (CT120)

Grade Level: 10-12  
Prerequisite: None

1 Credit/FA  
Level Grade Points

The fee for this course is \$60.00.

To be prepared for careers in the floral design, students need to 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. This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. This course could lead to an industry certification. This course may satisfy the fine arts credit for graduation.

### **Food Technology and Safety** (CT115)

Grade Level: 10-12  
Prerequisite: None

1 Credit  
Level Grade Points

The fee for this course is \$10.00.

To be prepared for careers in value-added and food processing systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to value-added and food processing and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings. This course examines the food technology industry as it relates to food production, handling, and safety. The fee for this course is \$10.00.

### **Horticulture Science** (CT123)

Grade Level: 10-12  
Prerequisite: None

1 Credit  
Level Grade Points

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

### **Landscape Design and Management** (CT121)

Grade Level: 10-12  
Prerequisite: None  
Co-requisite: Recommended: Turf Grass Management

½ Credit  
Level Grade Points

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

## COURSE LISTINGS AGRICULTURE, FOOD AND NATURAL RESOURCES

### **Livestock Production** (CT107)

Grade Level: 10-12

Prerequisite: None

½ Credit  
Level Grade Points

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings. Animal species to be addressed in this course may include, but are not limited to, beef cattle, dairy cattle, swine, sheep, goats, and poultry.

### **Mathematical Applications in Agriculture** (CT105)

Grade Level: 10-12

Prerequisite: Algebra and prefer one credit in an Agriculture course

1 Credit/Math  
Level Grade Points

Students apply knowledge and skills related to mathematics including Algebra, Geometry, and data analysis in the context of agriculture, food, and natural resources. This may count as a math credit if taken before Algebra 2 and taught by a NCLB approved or math certified teacher.

### **Practicum in Agriculture, Food, and Natural Resources** (CT131)

Grade Level: 11-12

Prerequisite: 2 or more courses in a sequence

2 Credits  
Level Grade Points

Personal transportation required.

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)

Grade Level: 9-12

Prerequisite: None

1 Credit  
Level Grade Points

To be prepared for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for success, students need to have opportunities to learn, reinforce experience, apply, and transfer their knowledge and skills in a variety of settings. This course could lead to an industry certification.

### **Professional Standards in Agribusiness** (CT103)

Grade Level: 10-12

Prerequisite: None

½ Credit  
Level Grade Points

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.

## COURSE LISTINGS AGRICULTURE, FOOD AND NATURAL RESOURCES

### **Small Animal Management** (CT108)

Grade Level: 10-12

Prerequisite: None

½ Credit  
Level Grade Points

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

### **Turf Grass Management** (CT122)

Grade Level: 10-12

Prerequisite: None

Co-requisite: Recommended: Landscape Design and Management

½ Credit  
Level Grade Points

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

### **Wildlife, Fisheries, and Ecology Management** (CT117)

Grade Level: 10-12

Prerequisite: None

1 Credit  
Level Grade Points

To be prepared for careers in natural resource systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the management of game and non-game wildlife species, fish, and aquacrops and their ecological needs as related to current agricultural practices. This course could lead to an industry certification.





## COURSE LISTINGS

## ARCHITECTURE AND CONSTRUCTION

### ARCHITECTURE AND CONSTRUCTION

Architecture and Construction career fields include the creative and detailed drafting of architectural designs with a focus on an environmentally friendly outcome. Students learn how to create architectural designs using board methods prior to learning the same methods using the Auto CAD computer program. For the more active and outdoor-oriented student, the construction fields that include the execution of blueprints into a finished project or home becomes the focus. Students entering into these fields must be able to measure well and do math functions with relative ease.

The student organization for this area is VICA/Skills USA, which provide opportunities for leadership development and competitions to enhance the learning experience.

#### **RELATED CAREERS**

Architect	Construction Manager	Roofer
Industrial Designer	Framers	Cabinetmakers
Drafter	Dry Wall	Tile Mason
Landscape Architect	Brick Masons	Flooring
Teacher, Career and Technical Education	Electrician	Interior Designer
Project Manager	Plumber	Painters

#### **Architectural Design I** (CT213)

Grade Level: 10-12

Prerequisite: Recommended: Principles of Architecture, Principles of Construction

1 Credit  
Level Grade Points

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)

Grade Level: 11-12

Prerequisite: Architectural Design I

2 Credits  
Level Grade Points

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 Technology I** (CT208)

Grade Level: 10-12

Prerequisite: Recommended, Principles of Architecture or Principles of Construction

Located at: KHS and HHS  
1 Credit  
Level Grade Points

In Construction Technology I, students gain knowledge and skills specific to those needed to enter the work force as carpenters or building maintenance supervisors or prepare for a postsecondary degree in construction management, architecture, or engineering. Students acquire knowledge and skills in safety, tool usage, building materials, codes, and framing. This course could lead to an industry certification.



**Construction Technology II** (CT209)

Located at: KHS and HHS  
2 Credits  
Level Grade Points

Grade Level: 11-12  
Prerequisite: Construction Technology I

In Advanced Construction Technology, students gain advanced knowledge and skills specific to those needed to enter the work force 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)

Located at: HHS  
1 Credit  
Level Grade Points

Grade Level: 10-12  
Prerequisite: Recommended, Principles of Architecture or Principles of Construction

This course has a \$20.00 lab fee.

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)

Located at: HHS  
2 Credits  
Level Grade Points

Grade Level: 11-12  
Prerequisite: Electrical Technology II

This course has a \$20.00 lab fee.

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  
Level Grade Points

Grade Level: 10-12  
Prerequisite: None

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

**Interior Design II** (CT216)

2 Credits  
Level Grade Points

Grade Level: 11-12  
Prerequisite: Interior Design I

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.

## COURSE LISTINGS

## ARCHITECTURE AND CONSTRUCTION

### **Practicum in Architectural Design** (CT226)

Grade Level: 12  
Prerequisite: 2 or more courses in sequence

2 Credits  
Level Grade Points

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)

Grade Level: 12  
Prerequisite: 2 or more courses in sequence

Located at: KHS and HHS  
2 Credits  
Level Grade Points

Personal transportation required.

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)

Grade Level: 9-12  
Prerequisite: None

1 Credit  
Level Grade Points

The fee for this course is \$10.00.

This course provides an overview to the various fields of architecture, interior design, and construction management. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. 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)

Grade Level: 9-12  
Prerequisite: None

1 Credit  
Level Grade Points

The fee for this course is \$10.00.

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.

# COURSE LISTINGS

# ARTS, A/V TECHNOLOGY & COMMUNICATION

## ARTS, AUDIOVISUAL TECHNOLOGY AND COMMUNICATION

The Arts, Audiovisual Technology and Communication career areas include the mastery and use of computer or other technology along with individual creativity. This area includes film production and editing, print media, animation, journalism and photography as well as illustration in its wide range of careers. People who mix their artistic talents with training in the latest design software should be able to find many good opportunities for employment. Computer graphics for software and web page design are two popular areas in the industry.

Students participate in leadership activities in A/V clubs, which allow them to compete in local and state contests and learn leadership skills as officers in the club.

### FIFTEEN RELATED CAREERS

Graphic Artist	Art Gallery Owner/Manager	Fashion Designer
Advertising Designer	Computer Graphic Designer	Illustrator
Special Effects Designer	Photographer/Photojournalist	Filmmaker
Audio-Video Producer	Motion Picture Producer	Media Director
Master Control Operator	Production Specialist	Fine Artists

### Principles of Arts, Audio/Video Technology and Communications (CT300)

1 Credit

Grade Level: 9

Level Grade Points

Prerequisite: None

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 II (CT309)

1 Credits

Grade Level: 10-12

Level Grade Points

Prerequisite: Audio/Video Production I

The fee for this course is \$10.00.

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 Credits

Grade Level: 11-12

Level Grade Points

Prerequisite: Audio/Video Production I

Co-requisite: Audio/Video Production II

The fee for this course is \$10.00.

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 (CT307)

1 Credit

Grade Level: 9-12

Level Grade Points

Prerequisite: None

The fee for this course is \$10.00.

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.

**Practicum in Audio/Video Production** (CT332)

Grade Level: 11-12

Prerequisite: Advanced Audio/Video Production

2 Credits  
Level Grade Points

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.

## COURSE LISTINGS

## ARTS, A/V TECHNOLOGY & COMMUNICATION

### **Graphic Design & Illustration I** (CT326)

Grade Level: 10-12

Prerequisite: None

1 Credit

Level Grade Points

The fee for this course is \$10.00.

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)

Grade Level: 11-12

Prerequisite: Graphic Design & Illustration I

1 Credit

Level Grade Points

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, magazine, and flyers, and maintain a professional portfolio of work.

### **Graphic Design & Illustration II & LAB** (CT329)

Grade Level: 11-12

Prerequisite: Graphic Design & Illustration I

Co-requisite: Graphic Design & Illustration II

2 Credits

Level Grade Points

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, magazine, and flyers, and maintain a professional portfolio of work.

### **Animation I** (CT303)

Grade Level: 10-12

Prerequisite: None

1 Credit

Level Grade Points

The fee for this course is \$10.00.

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)

Grade Level: 11-12

Prerequisite: Animation I

1 Credit

Level Grade Points

The fee for this course is \$10.00.

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)

Grade Level: 11-12

Prerequisite: Animation I

Co-requisite: Animation II

2 Credits

Level Grade Points

The fee for this course is \$10.00.

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.

## COURSE LISTINGS ARTS, A/V TECHNOLOGY & COMMUNICATION

### **Practicum in Graphic Design and Illustration** (CT336)

Grade Level: 11-12

Prerequisite: Personal transportation required  
Graphic Design and Illustration II

2 Credits  
Level Grade Points

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 in Animation** (CT331)

Grade Level: 11-12

Prerequisite: Personal transportation required  
Animation II

2 Credits  
Level Grade Points

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.

### **Professional Communications** (CT330)

Grade Level: 9-12

Prerequisite: None

½ Credit  
Level Grade Points

Professional Communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and 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.

## COURSE LISTINGS ARTS, AV TECHNOLOGY & COMMUNICATION

### **Video Game Design** (CT313)

Grade Level: 10-12

Prerequisite: Graphic Design I or Animation I

1 Credit  
Level Grade Points

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.





## BUSINESS MANAGEMENT AND ADMINISTRATION

This comprehensive program provides students with meaningful instruction both for business and about business, while being flexible and adaptable to the needs of industry and society. Students are provided broad, transferable concepts and competencies that allow them to enter the job market with the ability to function in new and emerging technological occupations as well as to reach maximum potential in higher education.

Basic skills such as reading, writing, computation, and computer technology expertise comprise the foundation of all Business Education courses. Introductory and upper-level courses integrate academic and critical thinking skills for a complete understanding of the functions of business and the implications for personal life skills. Major tasks emphasize developing effective oral and written communication, preparing and analyzing business records, operating appropriate equipment, utilizing software, and developing necessary knowledge and skills to interact successfully with others.

### FIFTEEN RELATED CAREERS

Accountant & Auditor	Computer Programmer	Medical Secretary
Bank Manager	Court Reporter	Management Consultant
Buyer, Wholesale & Retail	CPA (Certified Public Accountant)	Real Estate Manager
City Manager	Educational Administrator	Stockbroker
Claims Adjuster	Entrepreneur	Telecommunications Specialist

### Business English (CT405)

Grade Level: 12

Prerequisite: English III, Recommended, Touch Systems Data Entry

1 Credit/Eng.  
Level Grade Points

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)

Grade Level: 9-12

Prerequisite: Recommended, Touch System Data Entry

1 Credit  
Level Grade Points

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 Lab (CT408)

Grade Level: 10-12

Prerequisite: Recommended co-requisite course  
May not be offered as a stand-alone course

1 Credit  
Level Grade Points

Business lab is designed to provide students an opportunity to further enhance skills of previously studied knowledge and skills and may be used as an extension of Business Information Management I; it is a recommended co-requisite course, and may not be offered as a stand-alone course. 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 economical, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. 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.



## COURSE LISTINGS

## BUSINESS MANAGEMENT & ADMINISTRATION

### **Business Law** (CT404)

Grade Level: 11-12

Prerequisite: None

1 Credit  
Level Grade Points

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)

Grade Level: 10-12

Prerequisite: None

½ Credit  
Level Grade Points

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce and postsecondary education. Students apply technical skills to address global business applications of emerging technologies. Students develop a foundation in the economical, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment.

### **Practicum in Business Management** (CT413)

Grade Level: 11-12

Prerequisite: Personal transportation required  
2 or more courses in a sequence

2 Credits  
Level Grade Points

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 economical, 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.

### **Principles of Business, Marketing, and Finance** (CT400)

Grade Level: 9-11

Prerequisite: None

1 Credit  
Level Grade Points

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.

## COURSE LISTINGS

## BUSINESS MANAGEMENT & ADMINISTRATION

### **Touch System Data Entry** (CT403)

Grade Level: 9-10  
Prerequisite: None

½ Credit  
Level Grade Points

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. Student will need to apply touch system data entry for production of business documents.

### **Virtual Business** (CT411)

Grade Level: 10-12  
Prerequisite: Recommended, Touch System Data Entry

½ Credit  
Level Grade Points

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.



## EDUCATION AND TRAINING

The Education and Training area includes the understanding of the developmental stages of children and preparing students for the experience of becoming teachers. The courses provide students the opportunity to observe students in actual classrooms and later assisting the teacher in preparing lessons for the class. These courses provide an opportunity for real-world experience prior to entering college.

The TAFE (Texas Association of Future Educators) club and the Family, Career, Community Leaders of America (FCCLA) organization provide extracurricular involvement for students enrolled in Family and Consumer Sciences Education courses. Leadership skills, citizenship, personal growth and community service related opportunities are supported through membership. Competitive events enhance career preparation, curriculum competencies, self-confidence, and the instructional program.

### **FIFTEEN RELATED CAREERS**

Teacher, Pre-K	Teacher Aide	Child Care Director
Teacher, Elementary	Child Care Worker	Head Start Teacher
Teacher, Secondary	Corporate Trainer	Career Counselor
Administrator	Human Resource personnel	Counselor
College Professor	Child Psychologist	Social Worker

### **Human Growth and Development** (CT503)

Grade Level: 10-12

Prerequisite: None

1 Credit

Level Grade Points

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.

### **Instructional Practices in Education and Training** (CT504)

Grade Level: 11-12

Prerequisite: Recommended, Principles of Education and Training

Located at: KPHS

2 Credits

Level Grade Points

Personal transportation required.

Instructional Practices in Education and Training is a field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students 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)

Grade Level: 12

Prerequisite: Instructional Practice in Education

Located at: KPHS

2 Credits

Level Grade Points

Personal transportation required.

Practicum in Education and Training is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary 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.

## COURSE LISTINGS

## EDUCATION AND TRAINING

### Principles of Education and Training (CT500)

1 Credit

Grade Level: 9-10

Level Grade Points

Prerequisite: None

Principles of Education and Training is designed to introduce learners to the various careers available within the education and training career cluster. Students use self-knowledge and educational and career information to analyze various careers within the education and training career cluster. Students will also gain an understanding of the basic knowledge and skills essential to careers within the education and training career cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.

## COURSE LISTINGS

## FINANCE

### FINANCE

The Finance Cluster prepares learners for careers in financial planning, insurance, banking, business and financial management. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service, and communication.

### FIFTEEN RELATED CAREERS

Financial Planner

Tax Preparer

Brokerage Clerk

Sales, Securities and Commodities

Investment Advisor

Development Officer

Teacher, Accounting

Accountant

Bookkeeper

Chief Financial Officer

Revenue Agent

Comptroller

Treasurer

Auditor

Economist

### Accounting I (CT617)

1 Credit

Grade Level: 10-12

Grade

Points

Prerequisite: Recommended, Principles of Business, Marketing & Finance

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 Credit/Math

Grade Level: 11-12

Advanced Grade Points

Prerequisite: Accounting I

The fee for this course is \$40.00.

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.

### Banking and Financial Services (CT616)

½ Credit

Grade Level: 10-12

Level Grade Points

Prerequisite: Recommended, Principles of Business, Marketing, & Finance

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.

## COURSE LISTINGS

## FINANCE

### **Money Matters** (CT612)

Grade Level: 9-12

Prerequisite: Recommended, Principles of Business, Marketing, & Finance

1 Credit  
Level Grade Points

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)

Grade Level: 11-12

Prerequisite: Recommended: Principles of Business, Marketing & Finance

1 Credit  
Level Grade Points

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)

Grade Level: 10-12

Prerequisite: Recommended: Principles of Business, Marketing & Finance

1 Credit  
Level Grade Points

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)

Grade Level: 11-12

Prerequisite: Algebra II

1 Credit/Math  
Level Grade Points

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.

## HEALTH SERVICES

Health Science Technology Education is a comprehensive secondary education program for students who have an interest and desire to explore health careers. Students gain the knowledge and skills to make realistic health career choices. Students enhance their academic foundation through a strong science-based enrichment curriculum. Industry partnerships provide students with valuable observation-based experience so students can visualize their potential roles in safe, effective, efficient, quality health care. Emphasis is placed on safety and technology utilized in health care. Opportunities for leadership and citizenship development are available through membership and participation in Health Occupations Students of America (HOSA). This student professional organization provides opportunities for leadership development, knowledge and skill recognition through the competitive events program and community service projects. By networking with health care professionals, students receive guidance in selecting and pursuing a health career.

### FIFTEEN RELATED CAREERS

Physician	Nurse	Pharmacist
Dentist	Emergency Medical Technician	Veterinary Services
Therapist (i.e., Physical, Respiratory)	Radiologist	Lab Technician
Psychologist	Optometrist	Ophthalmologist
Administrator	Nutritionist	Sports Physician

### Anatomy and Physiology (CT750)

Grade Level: 11-12

Prerequisite: None

1 Credit/Sci  
Advanced Grade Points

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

### Certified Nursing Assistant (CT730)

Grade Level: 12

Prerequisite: Health Science Theory/Clinical

Located at: CATE Center  
1 Credit (double blocked semester)

Personal transportation required.

The fee for this course is \$75.00.

This is a state certification course for Certified Nursing Aides (CNA). Students will learn the skills required on the stat test in a laboratory setting at the CATE Building similar to hospital rooms. 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 graduation students will take the state test. Textbooks will be issued by Humble ISD. Students are responsible for the cost of the state test and uniforms. Good attendance is essential for this state certification course.

### Certified Nursing Assistant II (CT735)

Grade Level: 12

Prerequisite: Certified Nursing Assistant

Located at: CATE Center  
1 Credit (double blocked 2<sup>nd</sup> semester)

Personal transportation required.

This is a state certification course for Certified Nursing Aides (CNA). Students will have extended clinical site opportunities to sharpen the skills required on the stat test similar to hospital rooms. 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 graduation students will take the state test. Textbooks will be issued by Humble ISD. Good attendance is essential for this state certification course.

**Emergency Medical Technician** (CT740) 2 Credits  
Located at: CATE Center & Atascocita Volunteer Fire Department  
Grade Level: 12  
Prerequisite: Health Science Theory/Clinical or Sports Medicine Theory/Clinical

Personal transportation required.  
The EMT 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 the emergency response. Students will have hands-on experiences for continued knowledge and skills development which will involve career preparation learning with classroom-based learning as well as hands-on experiences at select clinical sites. This course could lead to an industry certification.

**Health Informatics** (CT710) 1 Credit  
Grade Level: 11-12  
Prerequisite: Business Management I and Medical Terminology

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

**Health Science Theory/Clinical** (CT712) 2 Credits  
Grade Level: 11-12 Level Grade Points  
Prerequisite: Principles of Health Science and Biology

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. 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.

**Mathematics for Medical Professionals** (CT755) 1 Credit/Math  
Grade Level: 11-12  
Prerequisite: Geometry and Algebra II

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

**Medical Microbiology** (CT705) 1 Credit/Sci.  
Grade Level: 10-12 Level Grade Points  
Prerequisite: Biology and Chemistry

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

**Medical Terminology** (CT703) 1 Credit  
Grade Level: 10-12 Level Grade Points  
Prerequisite: None

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



**Pathophysiology** (CT707)

Grade Level: 11-12

Prerequisite: Biology and Chemistry

1 Credit/Sci.  
Level Grade Points

Pathophysiology is a course 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 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.

**Pharmacy Technician** (CT731)

Grade Level: 12

Prerequisite: Biology, Chemistry

Recommended: Health Science, Algebra II

Located at: CATE Center  
1 Credit (double blocked semester)

Personal transportation required.

The fee for this course is \$125.00 (scrubs, training license, finger printing)

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. Test and vest will be paid for by the applicant. The course is lecture based with clinical rotations at local pharmacies.

**Pharmacy Technician II** (CT736)

Grade Level: 12

Prerequisite: Pharmacy Technician

Located at: CATE Center  
1 Credit (double blocked 2<sup>nd</sup> semester)

Personal transportation required.

This course will provide a more in depth experience 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. Test and vest will be paid for by the applicant. The course is lecture based with clinical rotations at local pharmacies.

**Practicum in Health Science I** (CT714)

Grade Level: 12

Prerequisite: Health Science Theory/Clinical

2 Credits  
Level Grade Points

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. These courses may be articulated courses. 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.

**Principles of Health Science** (CT700)

Grade Level: 9-10

Prerequisite: None

1 Credit  
Level Grade Points

The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry.



## COURSE LISTINGS

## HEALTH SERVICES

### **Sports Medicine I: Health Science Theory/Clinical** (CT722)

Grade Level: 11-12

Prerequisite: Principles of Health Science and Biology

Located at: CATE Center

2 Credits

Level Grade Points

Personal transportation required.

The fee for this course is \$75.00 (lab, workbook, scrubs)

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. This course could lead to an industry certification.

### **Sports Medicine II: Practicum in Health Science I** (CT724)

Grade Level: 12

Prerequisite: Sports Medicine: Health Science Theory/Clinical

Located at: CATE Center

2 Credits

Level Grade Points

Personal transportation required.

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. The following courses could lead to industry certifications.



## HOSPITALITY AND TOURISM

Hospitality and Tourism is one of the fastest growing career fields in America. Tourism plays an important part in this increase. More and more cities are taking advantage of these opportunities for the tourist dollar. Real estate developers, corporations and urban planners are all working to tap into the huge amount of money available from tourism. These efforts create jobs for thousands of people. Business people working away from home account for the majority of rented rooms at many hotels across the country. Hotels and services that cater to these travelers to make them more comfortable are thriving. The Hospitality and Tourism focus area provides training in the related fields, with specific focus on job related preparation for employment. Students learn the basics of the tourism industry and the culinary industry and then have the opportunity to practice these skills in the pre-employment laboratory situation.

### FIFTEEN RELATED CAREERS

Executive Chef	Travel Agent	Hotel Manager
Reservation Agent	Concierge	Food Service Worker
Sous Chef	Waitress/Waiter	Maitre 'D
Flight Attendant	Cook/Short Order Cook	Baker
Convention Services	Tour Guide	Food/Beverage Manager

### Advanced Culinary Arts (CT805)

Located at: SCHS  
2 Credits  
Level Grade Points

Grade Level: 11-12  
Prerequisite: Culinary Arts

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

### Culinary Arts (CT804)

Located at: SCHS  
2 Credits  
Level Grade Points

Grade Level: 10-12  
Prerequisite: Recommended, Hotel Management or Introduction to Culinary Arts

The fee for this course is \$25.00.

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification, a Texas culinary specialist certification, or any other appropriate industry certification. This course may be offered as a laboratory-based or internship course. 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.

### Hospitality Services (Marriott) (CT810)

Located at: CATE Center  
2 Credits

Grade Level: 11-12  
Prerequisite: Recommended, Hotel Management or Principles of Hospitality and Tourism

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

## COURSE LISTINGS

## HOSPITALITY AND TOURISM

### **Hotel Management** (CT809)

Grade Level: 10-12

Prerequisite: Recommended, Principles of Hospitality and Tourism

1 Credit

Level Grade Points

This course focuses on the knowledge and skills needed to pursue staff and management positions available in the hotel industry. This in-depth study of the lodging industry includes departments within a hotel such as front desk, food and beverage, housekeeping, maintenance, human resources, and accounting. This course will focus on, but not be limited to, professional communication, leadership, management, human resources, technology, and accounting. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

### **Introduction to Culinary Arts** (CT803)

Grade Level: 9-10

Prerequisite: None

1 Credit

Level Grade Points

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.

### **Practicum in Culinary Arts** (CT807)

Grade Level: 12

Prerequisite: Advanced Culinary Arts

Located at: SCHS

2 Credits

Level Grade Points

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

### **Practicum in Hospitality Services (Marriott)** (CT811)

Grade Level: 12

Prerequisite: Hospitality Services

Located at: CATE Center

3 Credits

Level Grade Points

A unique practicum experience provides opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Hospitality Services integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace. 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.

### **Principles of Hospitality and Tourism** (CT800)

Grade Level: 9-11

Prerequisite: None

1 Credit

Level Grade Points

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

## HUMAN SERVICES

The Human Services curriculum empowers individuals and families across the life span to manage the challenges of living and working in a diverse, global society. The relationship between work and family is the unique focus of Human Services. The department offers courses designed to prepare students for the world of work and life.

### **FIFTEEN RELATED CAREERS**

Family, School or Career Counselor	Child Psychologist	Merchandise Display Artist
Child Care Specialist	Hotel/Motel Manager	Public Relations Specialist
Dietitian	Home Furnishings Buyer	Manicurist
Family and Consumer Sciences Teacher	Cosmetologist	Professional Educator
Fashion Designer	Marketing Research Analyst	Social Worker

### **Child Development** (CT907)

Grade Level: 10-12 1 Credit  
 Prerequisite: Recommended, Principles of Human Services Level Grade Points

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.

### **Child Guidance** (CT908)

Grade Level: 11-12 Located at: KPHS  
 Prerequisite: Recommended, Principles of Human Services, personal transportation required 2 Credits  
 Recommended prerequisite or co-requisite: Child Development Level Grade Points

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

### **Family and Community Services** (CT909)

Grade Level: 11-12 1 Credit  
 Prerequisite: Recommended, Principles of Human Services Level Grade Points

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.

### **Interpersonal Studies** (CT905)

Grade Level: 9 ½ Credit  
 Prerequisite: Recommended, Principles of Human Services Level Grade Points

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.

**Cosmetology I and Lab** (CT913)

Located at: HHS  
3 Credits  
Level Grade Points

Grade Level: 11  
Prerequisite: None

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 Cosmetology Commission. Students must earn 1,000 hours in theory and practical applications in the laboratory provided, and 500 hours in other specified courses such as biology, chemistry, and mathematics for a total of 1,500 hours. Upon the satisfactory completing of the 1,500 hours students are expected to take the Texas Cosmetology Commission State Board Exam to become certified as a cosmetologist. KHS, AHS, KPHS, & SCHS students may be transported to take the course (A.M. class only). 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. (If a student took the intro class, they will use the permit obtained from that class). 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)

Located at: HHS  
3 Credits  
Level Grade Points

Grade Level: 12  
Prerequisite: Cosmetology I

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 Cosmetology Commission. Students must earn 1,000 hours in theory and practical applications in the laboratory provided, and 500 hours in other specified courses such as biology, chemistry, and mathematics for a total of 1,500 hours. Upon the satisfactory completing of the 1,500 hours students are expected to take the Texas Cosmetology Commission State Board Exam to become certified as a cosmetologist. KHS, AHS, KPHS, & SCHS students may be transported to take the course (A.M. class only). 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. (If a student took the intro class, they will use the permit obtained from that class). 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.





## COURSE LISTINGS

## HUMAN SERVICES

### **Practicum in Human Services** (CT910)

Grade Level: 11-12  
Prerequisite: Personal transportation required  
2 or more courses in a sequence

2 Credits  
Level Grade Points

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 described in subsection (c) of this section 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.

### **Principles of Human Services** (CT900)

Grade Level: 9-12  
Prerequisite: None

1 Credit  
Level Grade Points

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.



## COURSE LISTINGS

## INFORMATION TECHNOLOGY

### INFORMATION TECHNOLOGY

As it pertains to technology, IT spans a wide variety of areas that include but are not limited to things such as Processes, Computer Software, Computer Hardware, Programming Languages, and Data Constructs. In short, anything that renders data, information or perceived knowledge in any visual format whatsoever, via any multimedia distribution mechanism, is considered part of the domain space known as Information Technology (IT). According to the Occupational Outlook Handbook, employment of computer and information systems managers is expected to grow 17 percent over the 2008-18 decade, which is faster than the average for all occupations. New applications of technology in the workplace will continue to drive demand for workers, fueling the need for more managers. To remain competitive, firms will continue to install sophisticated computer networks and set up more complex intranets and websites. They will need to adopt the most efficient software and systems and troubleshoot problems when they occur. Computer and information systems managers will be needed to oversee these functions.

### RELATED CAREERS

Computer Systems Hardware Analyst	Computer Security Specialist	Computer Programmer
Cisco Certified Networking Associate	Computer Repair Technician	Website Designer
Computer Scientist/Engineer	Cryptanalysis	Computer Security Specialist
Global Positioning Technician	Mathematician	Secretary
Court Reporter	Mapmaker	Computer Education
Technician	Computer Technician	

Studies around the world show a growing demand for information and communication technology (ICT) professionals and a critical shortage of qualified candidates to fill the positions. Innovations such as social networking, cloud computing, e-commerce, web conferencing, and desktop virtualization are changing the way we live, work, play, and learn, and these capabilities are all powered by networks. The Cisco Networking Academy CCNA Discovery and CCNA Exploration courses provide the experience needed to help meet the global demand for qualified ICT candidates to design, install, and manage these networks.

### Principles of Information Technology (CT1000)

Grade Level: 9-12  
Prerequisite: None

1 Credit  
Level Grade Points

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)

Grade Level: 10-12  
Prerequisite: Recommended, Business Information Management, Principles of Information Technology

Located at: CATE Center  
1 Credit (double blocked)  
Level Grade Points

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.

### Networking (CT1005)

Grade Level: 10-12  
Prerequisite: None

Located at: CATE Center  
1 Credit (double blocked)  
Level Grade Points

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.

**Computer Programming (CT1009)**

Grade Level: 10-12

Prerequisite: Recommended, Business Information Management

1 Credit  
Level Grade Points

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.

## COURSE LISTINGS

## INFORMATION TECHNOLOGY

**Computer Programming II (CT1010)**

Grade Level: 10-12

Prerequisite: Computer Programming

1 Credit  
Honors Grade Points

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.

**CISCO Academy I (CT1023)**

Grade Level: 11-12

Prerequisite: Recommended, Computer Maintenance

Located at: CATE Center  
1 Credit (double blocked)  
Level Grade Points

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.

**CISCO Academy II (CT1024)**

Grade Level: 11-12

Prerequisite: CISCO Academy I

Located at: CATE Center  
1 Credit (double blocked)  
Level Grade Points

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. The following course could lead to an industry certification.

**Computer Technician Practicum (CT1011)**

Grade Level: 11-12

Prerequisite: Recommended Computer Maintenance, Personal transportation required

Located at: CATE Center  
2 Credits  
Level Grade Points

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.

## COURSE LISTINGS

## INFORMATION TECHNOLOGY

### **Digital Media** (CT1007)

Grade Level: 10-12

Prerequisite: Recommended, Business Information Management

1 Credit  
Level Grade Points

The fee for this course is \$10.00.

Through the study of digital and interactive media and its application in information technology, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students enhance reading, writing, computing, communication, and critical thinking and apply them to the information technology environment.

### **Web Technologies** (CT1008)

Grade Level: 10-12

Prerequisite: Recommended, Business Information Management

1 Credit  
Level Grade Points

Through the study of web technologies and design, students learn to make informed decisions and apply the decisions to the field of information technology. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students enhance reading, writing, computing, communication, and critical thinking and apply them to the information technology environment.

### **Practicum in Information Technology** (CT1012)

Grade Level: 12

Prerequisite: A minimum of two high school information technology (IT) courses.

2 Credits  
Level Grade Points

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.



# COURSE LISTINGS      LAW, PUBLIC SAFETY AND SECURITY

## LAW, PUBLIC SAFETY AND SECURITY

Career Opportunities in the criminal justice field are extensive and projected as a high growth area. Students may choose the introductory course to explore career options and/or continue into the more in-depth courses. Several courses offer certification preparation and/or community college credit. Students have the option to explore and prepare for careers ranging from emergency operators to a Supreme Court judge. The opportunities and variations are exciting.

### **FIFTEEN RELATED CAREERS**

Airport Security	Correction Officer	Hotel Security
Bodyguard	Detective	Probation and Parole
Border Patrol	Drug Enforcement Agent	Attorney
Central Intelligent Agent	FBI Agent	Police Officer
Corporate Security	Arson Investigator	911 Telecommunication

### **Court Systems and Practices** (CT1110)

1 Credit

Grade Level: 10-12

Level Grade Points

Prerequisite: Recommended, Law Enforcement I

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

### **Criminal Investigation** (CT1108)

1 Credit

Grade Level: 10-12

Level Grade Points

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

Criminal Investigation is a course that introduces students to the profession of criminal investigations. Students will understand basic functions of criminal investigations and procedures and will learn how to investigate or follow up during investigations. Students will learn terminology and 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.

### **Federal Law Enforcement and Protective Services** (CT1111)

1 Credit

Grade Level: 10-12

Level Grade Points

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

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.

**Firefighter I: Basic Structural Firefighter Certificate** (CT1130) (2Credits 1<sup>st</sup> Semester)

**Firefighter II: Basic Structural Firefighter Certificate** (CT1135) (3 Credits 2<sup>nd</sup> Semester)

Located at: Lone Star College Kingwood  
5 Credits

Grade Level: 12

Level Grade Points

Prerequisite: Recommended, Principles of Law, Public Safety, Corrections, and Security or Law Enforcement I Or Medical Terminology

Personal transportation required

The Basic Structural Firefighter Certificate Level I is completed during the senior year of high school. Seniors will participate in the 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. 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 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. For the most current cost estimate for students please contact the CTE department at 281-641-8315.

**Forensic Science** (CT1109)

Grade Level: 11-12

Prerequisite: Biology, Chemistry

1 Credit/Sci  
Level Grade Points

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.

**Law Enforcement I** (CT1106)

Grade Level: 10-12

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

1 Credit  
Level Grade Points

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)

Grade Level: 10-12

Prerequisite: Recommended, Law Enforcement I

1 Credit  
Level Grade Points

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.

## **COURSE LISTINGS**

## **LAW, PUBLIC SAFETY AND SECURITY**

**Practicum in Law, Public Safety, Corrections, and Security** (CT1122)

Grade Level: 11-12

Prerequisite: Personal transportation required  
2 or more courses in a sequence

2 Credits  
Level Grade Points

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.

**Principles of Law, Public Safety, Corrections, and Security** (CT1100)

Grade Level: 9-12

Prerequisite: None

1 Credit  
Level Grade Points

Principles of Law, Public Safety, Corrections, and Security introduce students to professions in law enforcement,

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

**Disaster Response: TEEN CERT** (CT1120)

Grade Level: 10-12

Prerequisite: Recommended: None

½ Credit  
Level Grade Points

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.



## MANUFACTURING

The Manufacturing cluster includes planning, managing and performing the processing of materials into intermediate or final products. It includes professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering. Students may learn a variety of technical skills that are in high demand in the world of work.

### RELATED CAREERS

Aircraft Manufacturer	CNC Machinist/Manufacturer	Mechanics and Repairer
Tool & Die Maker/Technologist	Industrial Engineer	Machine Operator
Automated Manufacturing Techs	Electromechanical Equip. Assemblers	Manufacturing Engineer
Computer Engineering Technician	Diesel Engine Mechanic & Repairer	Welder
Instrumentation Technician	Extruding & Drawing Mach. Operator	Precision Metal Workers
Calibration Technician	Machinist/Machine Technician	Avionics Maintenance Tech
Mechanical Technology Technician	Precision Inspectors	Medical Appliance Maker

### Welding I (CT1203)

Located at: AHS

2 Credits

Grade Level: 10-12

Level Grade Points

Prerequisite: None

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)

Located at: AHS

2 Credits

Grade Level: 11-12

Level Grade Points

Prerequisite: Welding I

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.

### Introduction to Process Technology (CT1210)

Located at: SCHS

1 Credit

Grade Level: 11-12

Level Grade Points

Prerequisite: Co-requisite: Petrochemical Safety, Health, and Environment

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)

Located at: SCHS

1 Credit

Level Grade Points

Grade Level: 11-12

Prerequisite: Co-requisite: Introduction to Process Technology

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.

**Practicum in Manufacturing** (CT1230)

Located at: SCHS

2 Credits

Level Grade Points

Grade Level: 12

Prerequisite: Introduction to Process Technology AND Petrochemical Safety, Health, and Environment

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.



## MARKETING, SALES & SERVICES

Marketing Education is a program designed to prepare students to conduct the critical business functions associated with directing the flow of products and services from the producer to the consumer. A fundamental understanding of the marketing concept and basic marketing skills are essential not only to students entering the field of marketing, but also everyone entering the workforce. Marketing Education courses provide students with knowledge and skills that are highly transferable.

The discipline of marketing is built upon three interdisciplinary content areas: economics, human resources, and marketing concepts. Students study and apply the marketing functions that include: Distribution, Promotion, Financing, Purchasing, Marketing-Information Management, Risk Management, Product Planning, and Selling. Course work is expanded to include application and integration of technology, higher-order thinking, problem solving, and core academic competencies.

Students also have opportunities to develop leadership, social, civic and career skills in marketing through their participation in DECA, the student organization for Marketing Education. DECA provides well-planned activities that can be integrated into the curriculum and projects that promote occupational competence for students. DECA is committed to building relationships between education and the business community that will enhance the career and educational development of students.

### **FIFTEEN RELATED CAREERS**

Advertising Director	International Marketer	Buyer/Purchasing Agent
Hotel/Motel Manager	Marketing Instructor	Financial Manager
Travel Services Marketing Dir.	Fashion Marketer	Broker
Restaurant Manager	Store Manager	Display Designer
Fashion Consultant	Distribution Manager	Product Designer

### **Advertising** (CT1302)

Grade Level: 9-12

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

½ Credit

Level Grade Points

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.

### **Practicum & Extended Practicum in Marketing (Co-Requisite)** (CT1308)

Grade Level: 11-12

Prerequisite: Personal transportation required;

Recommended, Principles of Business, Marketing, and Finance

Co-Requisite: Practicum in Marketing

1 Credit

Level Grade Points

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.

## COURSE LISTINGS

## MARKETING, SALES & SERVICES

### **Practicum in Marketing** (CT1307)

Grade Level: 11-12

2 Credits

Prerequisite: Personal transportation required;

Level Grade Points

Recommended, Principles of Business, Marketing, and Finance

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)

Grade Level: 12

Located at: KHS

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

1 Credit

Level Grade Points

The fee for this course is \$349.00.

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.

### **Sports and Entertainment Marketing** (CT1305)

Grade Level: 9-12

½ Credit

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

Level Grade Points

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.

### **Fashion Marketing** (CT1303)

Grade Level: 9-12

½ Credit

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

Level Grade Points

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)

Grade Level: 9-12

½ Credit

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

Level Grade Points

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.



# COURSE LISTINGS

## SCIENCE, TECHNOLOGY, ENGINEERING & MATH

### SCIENCE, TECHNOLOGY, ENGINEERING & MATH

A career in Science, Technology, Engineering and Mathematics is challenging and ever-changing. Learners who pursue one of these career field will be involved in planning, managing, providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.

In Science, Technology, Engineering and Mathematics, students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems. The study of technology allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. In addition to their general academic and technical knowledge and skills, students gain an understanding of career opportunities available in technology and what employers require for workers to gain and maintain employment in the 21<sup>st</sup> century.

#### **FIFTEEN RELATED CAREERS**

Aerospace Engineer	Computer Engineer	Airplane Pilot
Air Traffic Controller	Product Designer	Mechanical Engineer
Architect	Manufacturing Supervisor	Robotics Technician
General Contractor	Landscape Architect	Welding Engineer
Civil Engineer	Laser Technician	Supervisor, Construction Trades

#### **Aeroscience I** (CT1410)

Grade Level: 11-12

Prerequisite: Biology, Chemistry, or Physics Recommended Engineering Design

1 Credit/Sci  
Level Grade Points

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)

Grade Level: 12

Prerequisite: Aeroscience I

1 Credit/Sci  
Level Grade Points

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.

#### **Robotics I** (CT1404)

Grade Level: 11-12

Prerequisite: Recommended: Architecture. Design or Engineering Design I

Located at: CATE Center and KHS  
1 Credit (double blocked)  
Level Grade Points

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)

Grade Level: 11-12

Prerequisite: Robotics I

Located at: CATE Center and KHS  
1 Credit (double blocked)  
Level Grade Points

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.

**Engineering Design and Presentation I** (CT1410)

Grade Level: 10-12

Prerequisite: Recommended, Principles of Applied Engineering

1 Credit  
Level Grade Points

Students enrolled in this course will demonstrate knowledge and skills of the process of design as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Additionally, students explore career opportunities in engineering, technology, and drafting and what is required to gain and maintain employment in these areas. The following course could lead to an industry certification.

## COURSE LISTINGS

## SCIENCE, TECHNOLOGY, ENGINEERING & MATH

**Practicum in Science, Technology, Engineering and Mathematics** (CT1412) Located at: CATE Center and KHS

Grade Level: 12

Prerequisite: Personal transportation required  
2 or more courses in a sequence

2 Credits (double blocked)  
Level Grade Points

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.

**Principles of Applied Engineering** (CT1400)

Grade Level: 10-12

Prerequisite: None

1 Credit  
Level Grade Points

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)

Grade Level: 10-12

Prerequisite: Biology, Chemistry

1 Credit/Sci  
Level Grade Points

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.

## COURSE LISTINGS

## TRANSPORTATION, DISTRIBUTION & LOGISTICS

### TRANSPORTATION, DISTRIBUTION & LOGISTICS

The Transportation, Distribution and Logistics cluster includes the planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance. This area provides instruction that develops manipulative skills, safety, judgment, technical knowledge, and related occupational information. These skills prepare students for profitable employment in trade and industrial pursuits. It also trains students for a wide variety of occupations in industrial areas through contextual instruction in the layout, design, production, processing, assembling, testing, diagnosing, and maintaining of industrial, commercial, and residential goods and services.

Individuals who have actual wage-earning experiences in the field provide instruction. Classrooms are laboratory equipped to emulate industry or are actual work sites, through such training arrangements as cooperative education, internships, or apprenticeships. Opportunities to develop and apply leadership, social, civic, and business-related skills are provided through the Skills USA/ Vocational Industrial Clubs of America, the student organization for young people enrolled in trade and industrial programs. As an integral part of the instructional program, club activities enhance and expand classroom instruction. Activities are directly related to the objectives of courses in Trade and Industrial Education.

#### **FIFTEEN RELATED CAREERS**

Aviation/Avionics	Heavy Equipment Mechanic	Automobile Service Advisor
Aircraft Mechanic	Numerical Control Machinist	Heating & Cooling Mechanic
Small Engine Mechanic	Instrumentation & Electrical Specialist	Telephone Installer
Diesel Engine Mechanic	Farm Equipment Mechanic	Die Cast Operator
Industrial Machine Technician	Automobile Collision Technician	Automobile Design Engineer

#### **Automotive Basics** (CT1500)

Grade Level: 9-12  
Prerequisite: None

1 Credit  
Level Grade Points

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)

Grade Level: 10-12  
Prerequisite: Automotive Basics

2 Credits  
Level Grade Points

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.

#### **Automotive Technology II: Automotive Services** (CT1510)

Grade Level: 11-12  
Prerequisite: Automotive Technology II: Maintenance and Light Repair

2 Credits  
Level Grade Points

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.

**Collision Repair** (CT1516)

Located at: KPHS  
2 Credits  
Level Grade Points

Grade Level: 10-12  
Prerequisite: Automotive Basics

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.

**Paint and Refinishing** (CT1517)

Located at: KPHS  
2 Credits  
Level Grade Points

Grade Level: 11-12  
Prerequisite: Collision Repair

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.



### Career Development

**Wisnbaker Practicum I** (CT1610)

Grade Level: 11-12

Prerequisite: Recommended – Principles of Hospitality Services

Located at: CATE Center

3 Credits

Level Grade Points

This unique and exciting course provides opportunities for students to participate in a week-based learning experience that combines classroom instruction with business and industry employment experiences through a local business partner, Wisnbaker Builder Services. This partnership aims to expose students to a variety of skills for a changing workplace through a rotation schedule within Wisnbaker to include, but not limited to, Human Resources, Inside Sales, Inventory, Expediting, Finance, I.T., and Logistics. This unique experience is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

**Wisnbaker Practicum II** (CT1620)

Grade Level: 12

Prerequisite: Wisnbaker Practicum I

Located at: CATE Center

3 Credits

Level Grade Points

Wisnbaker Practicum Rotation II develops essential knowledge and skills through classroom technical instruction and on-the-job training with Wisnbaker, a local business partner. Students will develop skills for lifelong learning, employability, leadership, management, work ethics, safety, and communication as a group. This partnership aims to expose students to a variety of skills for a changing workplace through a rotation schedule within Wisnbaker to include, but not limited to, Human Resources, Inside Sales, Inventory, Expediting, Finance, I.T. and Logistics. This unique experience is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

# COURSE LISTINGS

## T-STEM Academy (Humble High School Only)

### T-STEM ACADEMY

#### **Introduction to Engineering Design (PLTW)** (CT1800)

HHS

Grade Level: 9-10

Prerequisites: None

Points

Located at:

1 Credit

Level Grade

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)

Grade Level: 10-11

Prerequisites: Intro to Engineering Design

Located at: HHS

1 Credit

Level Grade Points

Using 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.

#### **TSTEM Engineering Design and Problem Solving**

Grade Level: 11-12

1 Credit Sci/CTE

Level Grade Points

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.

#### **Principles of Biosciences** (CT1820)

Grade Level: 10-12

Prerequisites: Intro to Engineering Design

Located at: HHS

1 Credit

Level Grade Points

This course is a string 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.

#### **Biotechnology I** (CT1830)

Grade Level: 11-12

Prerequisites: Biology and Chemistry Recommended: Principles of Biosciences

Located at: HHS

1 Credit/Sci

Level Grade Points

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.



## COURSE LISTINGS

## T-STEM Academy (Humble High School Only)

### **TSTEM Computer Programming I** (CT1810)

Grade Level: 10-12

Prerequisite: Intro to Engineering Design

Located at: HHS

1 Credit

Level Grade Points

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 related to computer programming. Students apply technical skills to address business applications of emerging technologies.

### **TSTEM Computer Programming II** (CT1812)

Grade Level: 11-12

Prerequisite: TSTEM Computer Programming I

Located at: HHS

1 Credit

Honors Grade Points

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 related to computer programming. Students also apply technical skills to address business applications of emerging technologies.

### **TSTEM Practicum in Science, Technology, Engineering and Mathematics** (CT1806)

Grade Level: 12

Prerequisite: 2 STEM or more courses in a sequence

Located at: HHS

2 Credits (double blocked)

Grade Level Points

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 Practicum in Information Technology** (CT1814)

Grade Level: 12

Prerequisite: A minimum of two TSTEM Information Technology (IT) courses

Located at: HHS

2 Credits

Level Grade Points

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.

## AVID

### **AVID 1** (4481)

Grade Level: 9  
Prerequisite: 8th grade AVID recommended

1 Credit  
Level Grade Points

The AVID 1 Elective class accelerates students into more rigorous course selections. First year 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 and work in collaborative groups using a curriculum focused on writing and inquiry.

Other days are devoted to reading, writing, and math preparation for college entrance and placement exams. Special study skills, note-taking techniques and notebook organization are required. Students receive motivational presentations by guest speakers and field trips to colleges and universities. Enrollment is contingent upon acceptance into the program. Communication applications credit may be embedded into AVID 1 for 0.5 credit second semester at certain schools contingent upon the availability of a certified communication applications teacher at the school and enrollment in the course for the full year.

### **AVID 2** (4482)

Grade Level: 10  
Prerequisite: AVID 1 recommended

1 Credit  
Level Grade Points

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. Students are highly encouraged to take a minimum of two advanced level courses and must be challenged to move beyond previous levels of achievement. During the AVID class, students are coached by college tutors and work in collaborative groups using a special curriculum focused on writing and inquiry.

Other days are devoted to reading, writing, math preparation, and study skills for college entrance and placement exams. Special study skills, note-taking techniques and notebook organization are required for the AVID student. Students receive motivational presentations by guest speakers and field trips to colleges and universities. Enrollment is contingent upon acceptance into the program.

### **AVID 3** (4483)

Grade: 11  
Prerequisite: AVID 2 recommended

1 Credit  
Level Grade Points

The AVID 3 Elective class, held during the regular school day, accelerates students into more rigorous courses that will enable them to meet requirements for university enrollment. Third year students are enrolled in a college preparatory sequence and are encouraged to take a minimum of two advanced level courses 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 and work in collaborative groups using a special curriculum focused on writing and inquiry.

Other days are devoted to reading, writing, math, and study skills in preparation for the PSAT and SAT/ACT. Special study skills, note-taking techniques and notebook organization are required for the AVID student. Third year AVID students will be exposed to college and career awareness and expectations. Students also receive motivational presentations by guest speakers, and field trips to colleges and universities. Enrollment is contingent upon acceptance into the program.

### **AVID 4** (4484)

Grade: 12  
Prerequisite: AVID 3 recommended

1 Credit  
Level Grade Points

The AVID 4 Elective class, held during the regular school day, accelerates students into more rigorous courses that will enable them to meet requirements for university enrollment. Fourth year students are enrolled in a college preparatory sequence and are encouraged to take a minimum of two advanced level courses 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. Students are also coached by college tutors and work in collaborative groups using a special curriculum focused on writing and inquiry. AVID 4 students are excellent tutor candidates for younger AVID students. AVID 4 students are expected to be “college prep” role models for other students to follow.

Special study skills, note-taking techniques and notebook organization are required for the AVID student. Fourth year AVID students will be exposed to college and career awareness and are expected to follow through with completing college and scholarship applications. Students receive motivational presentations by guest speakers and



## LOCAL ELECTIVES

The following courses provide local credit only and will **not** fulfill the Minimum High School Program, the Recommended High School Program, or the Distinguished Achievement Program graduation plans. For students with disabilities exempted from state mandated testing, local credit may count toward the minimum number of credits required for graduation.

**School Service Volunteer** (0068-0097)

Grade Level: 10-12

Prerequisite: None

½ - 1 Local Credit

No Grade Points

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)

Grade Level: 9-12

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

1 Local Credit

Level Grade Points

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** (4469)

Grade Level: 11-12

Prerequisite: None

1 - 2 Credits

Level Grade Points

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** (4489)

Grade Level: 12

Prerequisite: Peer Tutoring I

½ - 1 Credit

Level Grade Points

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.

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## 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**

Dr. Roger Brown  
Deputy Superintendent / Chief Academic Officer  
10203 Birchridge Drive  
Humble, Texas 77338  
281-641-8005

### **ADA: Facilities**

Nolan Correa  
Associate Superintendent, Operational Support Services  
1703 Wilson Road  
Humble, Texas 77338  
281-641-8768

### **ADA: Personnel**

Rick Gardner  
Assistant Superintendent, Human Resources  
10203 Birchridge Drive  
Humble, Texas 77338  
281-641-8160