



2026-2027

# Course Selection Guide

Huntsville  
High School

Mance Park  
Middle School



Dear Hornet Parents and Students,

The Course Selection Guide has been prepared to assist students in making wise decisions concerning programs and course choices during their secondary school years. Parents are urged to visit with their children and assist them in making proper course choices. Parents, students, and counselors working together can develop a quality educational plan that will lead to success in school and life. Carefully reviewing this selection guide is step one in a well-developed plan.

In Huntsville ISD, we are focused on Building Champions – Every One, Every Day. With thoughtful planning, along with strong communication with teachers, counselors, and administrative staff, our parents and students will be well on their way to achieving success at Mance Park Middle School, Huntsville High School, and beyond.

Sting ‘em,

L. Scott Sheppard, Ed.D.  
Superintendent



# Huntsville ISD Course Selection Guide

The Huntsville ISD Course Selection Guide contains important information for students on how they can be successful in middle and high school. The guide highlights Huntsville ISD's policies, rules, and regulations that apply to secondary school students, and it provides detailed information about the courses offered. There are a wide range of programs designed to prepare students for post-high school experiences including:

- four-year college or university,
- community college or trade school,
- military service,
- immediate employment, or
- a combination of many paths.

The Course Selection Guide is organized in three (3) main sections and can be navigated by the Table of Contents:

1. General Information for all secondary students and parents
2. Mance Park Middle School information and course descriptions
3. Huntsville High School information and course descriptions

#### **Huntsville ISD Disclaimer:**

The contents of the Secondary Course Guide are relevant to HISD Policy (Legal and Local), Regulation and Practice as of October 2017. For current information regarding district policy, please refer to the Huntsville Independent School District website at [www.huntsville-isd.org](http://www.huntsville-isd.org) or visit with the school counselor.

Specific school-related questions should be directed to campus staff. When a parent/guardian has a question or concern, he or she should contact the person who made the initial decision. After discussing the matter, if the concern continues, the principal should be contacted.

#### **Non-Discrimination Statement:**

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

Dr. Nkrumah Dixon, Assistant Superintendent of Human Resources & Operations at 441 FM 2821 East, Huntsville, TX, 77320, (936) 435-6300, has been designated to coordinate compliance with these legal requirements.



## Table of Contents

Table of Contents.....	4
Section 1: General Information for Secondary Schools.....	6
Huntsville ISD Counseling Staff.....	6
Planning the Course of Study.....	6
Student Classification & Promotion.....	6
Grade Weighting.....	7
High School Graduation Requirements.....	8
Overall Course Information.....	11
Section 2: Mance Park Middle School Course Descriptions.....	15
Mance Park Middle School Administration.....	15
Mance Park Middle School Course Request Process.....	15
Reading Language Arts.....	16
Mathematics.....	17
Science.....	18
Social Studies.....	19
Physical Education & Athletics.....	20
Languages other than English (LOTE).....	20
Fine Arts.....	21
General Electives.....	23
Career & Technical Education (CTE).....	24
Section 3: Huntsville High School Course Descriptions.....	26
Huntsville High School Administration.....	26
Huntsville High School Course Selection Process.....	26
Reading Language Arts.....	27
Mathematics.....	31
Science.....	34
Social Studies.....	37



Physical Education and Athletics.....	40
Languages other than English (LOTE).....	43
Fine Arts.....	47
General Electives.....	52
Career & Technical Education (CTE).....	53





## Section 1: General Information for Secondary Schools

### Huntsville ISD Counseling Staff

The Huntsville ISD counseling staff is dedicated to helping all students.

#### Mance Park Middle School

Counselors are assigned by grade level:

6 <sup>th</sup> Grade	Toni Thomas	tthomas@huntsville-isd.org
7 <sup>th</sup> Grade	Jennifer Buchert	jlbuchert@huntsville-isd.org
8 <sup>th</sup> Grade	Guillermo Jimenez	gxjimenez@huntsville-isd.org

#### Huntsville High School

Counselors are assigned by last name:

A – C	Jennifer Quirino	jrsquirino@huntsville-isd.org
D – H	Todd Nall	tdnall@huntsville-isd.org
I – N	Elizabeth Matchett	ematchett@huntsville-isd.org
O – S	Kelli Vossler	kvossler@huntsville-isd.org
T – Z	Marsha Stringer, Lead Counselor	mstringer@huntsville-isd.org
	Dawn Shaw, College & Career Counselor	dshaw@huntsville-isd.org

### Planning the Course of Study

Planning the student's course of study during middle school and high school is an important step in planning the student's future. The decisions made, along with the course of study pursued, will affect the student's post-secondary plans, including college and career readiness. Students will probably reconsider career goals several times. It is best to pursue a broad, well-rounded program of study that will prepare students for a variety of opportunities. Huntsville ISD offers a wide range of programs designed to give students a firm foundation for entering college, business or technical school, military service, or the workforce. Students are strongly encouraged to pursue a rigorous, challenging program that is best suited for their individual needs.

### Student Classification & Promotion

Freshman	0-5.5 Credits
Sophomore	6.0-11.5 Credits
Junior	12.0-18.5 Credits
Senior	19 and Above Credits

Credits required for students entering Huntsville High School are:

10 <sup>th</sup> Grade	6.0 Credits
11 <sup>th</sup> Grade	12.0 Credits
12 <sup>th</sup> Grade	19.0 Credits

To be promoted from one grade level to the next, the student must meet the following criteria:

- From the 9<sup>th</sup> grade, a student must have acquired the credits above, including one credit of English and one credit of Mathematics,
- From the 10<sup>th</sup> grade, a student must have acquired the credits above, including two credits of English and two credits of Mathematics.
- From the 11<sup>th</sup> grade, a student must have acquired the credits above, including three credits of English and three credits of Mathematics, and
- To graduate, a 12<sup>th</sup> grade student must satisfy the required state assessments in addition to meeting all graduation requirements.



## Grade Weighting

For Students Entering High School in Years 2019-2020 & Beyond

### Courses Receiving Grade Weighting

Students beginning high school in the school year 2014-2015 and thereafter will be required to take courses that meet, at minimum, the Foundation High School Plan. Their GPA will be determined from the classes they take that meet the following plan requirements:

- English I, English II, English III, an advanced English course
- Algebra I, Geometry, an advanced Math course
- Biology, IPC, an advanced Science course
- World Geography or World History, US History, US Government, Economics
- Foreign language courses or Computer Science courses

Any additional classes that meet the requirements for one of the 16 required core classes or languages other than English would count towards GPA.

### Courses Receiving No Grade Weighting and Not Included in Determining Class Rank

- Physical Education
- Athletics
- Fine Arts courses
- Cheerleading
- Cooperative work periods
- Local course credits
- Correspondence courses
- Distance learning
- Credit by examination, with prior instruction
- Courses taken at a college or university for college credit only
- Pass/fail course
- Driver's Education course
- Interdisciplinary Studies Seminars

### Grade Weighting Table

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

Below 70 = No Grade Points



## High School Graduation Requirements

### Graduation Plans

Texas high school students will complete one of three graduation options: Foundation, Foundation plus Endorsement, or Distinguished Level of Achievement. Students will meet with Counselors to create their four-year graduation plan.

### Special Note regarding Algebra 2

Only students who choose to complete the Distinguished Level of Achievement or the STEM endorsement within the Foundation plus Endorsement plan will be required to complete Algebra II. However, Algebra II is still required for admission to most public colleges and universities in Texas.

### End of Course Assessments

In general, students must pass (*"approaches grade level"*), five (5) STARR EOC assessments: Algebra I, English I, English II, Biology, and US History, to earn a high school diploma from a Texas public or charter school as required by TEC § 39.025.

Discipline	Foundation	Foundation plus Endorsement	Distinguished Level of Achievement
English Language Arts	4 credits	4 credits	4 credits
Mathematics	3 credits	4 credits	4 credits Must include Algebra II
Science	3 credits	4 credits	4 credits
Social Studies	3 credits	3 credits	3 credits
Physical Education	1 credit	1 credit	1 credit
Languages Other Than English	2 credits	2 credits	2 credits
Fine Arts	1 credit	1 credit	1 credit
Electives	5 credits	7 credits	7 credits
<b>Total Credits</b>	<b>22 credits</b>	<b>26 credits</b>	<b>26 credits</b>

Important notes regarding admission to Texas public universities:

- Foundation plan is NOT ELIGIBLE for admission
- Foundation plus Endorsement plan is ELIGIBLE for admission, if student completes Algebra II
- Distinguished Level of Achievement is ELIGIBLE for Top 10% automatic admission

If the student intends to complete either the Foundation or the Foundation plus Endorsement plan, talk to the counselor about adding Algebra II.





## Endorsements

All endorsement plans request four (4) math and four (4) science credits.

Endorsement	Requirements
Arts and Humanities	<ul style="list-style-type: none"> <li>• Four credits from the core Social Studies courses plus one additional Social Studies course, or</li> <li>• Four levels of the same Languages other than English, or</li> <li>• Two levels of the same Languages other than English and two more levels of a different Languages other than English, or</li> <li>• Coherent sequence of four credits in one or two categories or disciplines of Fine Arts (Art, Dance, Theater Arts, Band, Choir, Orchestra), or</li> <li>• Four core English courses plus three additional English electives (not including journalism and speech)</li> </ul>
Business and Industry	<p>Coherent sequence of four (4) English courses to include three levels of one of the following:</p> <ul style="list-style-type: none"> <li>• Advanced Broadcast Journalism</li> <li>• Advanced Journalism: Newspaper</li> <li>• Debate</li> <li>• Advanced Journalism: Yearbook</li> </ul> <p>Or</p> <p>Complete four credits from these CTE course clusters (including two in one cluster and one advanced course):</p> <ul style="list-style-type: none"> <li>• Agriculture, Food, and Natural Resources</li> <li>• Architecture and Construction</li> <li>• Arts, Audio/Video Technology, and Communications</li> <li>• Business, Marketing, and Finance</li> <li>• Hospitality and Tourism</li> <li>• Information Technology</li> <li>• Manufacturing</li> <li>• Transportation, Distribution, and Logistics</li> </ul>
Multidisciplinary Studies <i>All students who take four (4) years of math and four (4) years of science earn this endorsement.</i>	<ul style="list-style-type: none"> <li>• Four advanced courses that prepare a student to enter the workforce successfully, or post-secondary education without remediation (no coherent sequence required), or</li> <li>• Four credits in each of the four Foundation subject areas, or</li> <li>• Four AP, IB, or dual credit courses selected from English, Math, Science, Social Studies, Economics, Language other than English, or Fine Arts</li> </ul>
Public Service	<p>Complete four or more credits from these CTE course clusters (including two in one cluster and one advanced course):</p> <ul style="list-style-type: none"> <li>• Education and Training</li> <li>• Health Services</li> <li>• Human Services</li> <li>• Law and Public Safety</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>• Complete four courses in Junior Reserve Officer Training Corps (JROTC)</li> </ul>
Science, Technology, Engineering, and Math (STEM)	<ul style="list-style-type: none"> <li>• Coherent sequence of four courses in computer science, or</li> <li>• Algebra II plus two additional math courses in which Algebra II is a pre-requisite, or</li> <li>• Four credits from the core Science courses plus one additional Science course</li> </ul>



## **Additional Graduation Requirements**

### **Distinguished Level of Achievement (DLA)**

Students who complete the distinguished level of achievement are eligible for college admissions under the top 10% automatic admissions provision. This designation will be added to the graduation transcript.

To earn the distinguished level of achievement, students must complete the following:

- The Foundation High School Program,
- An endorsement, and
- Algebra II

### **Financial Aid Graduation Requirements**

In accordance with Texas Education Code (TEC), § 28.0256, beginning with students enrolled in 12<sup>th</sup> grade during the 2021-2022 school year, each student must do one of the following in order to graduate:

- Complete and submit a Free Application for Federal Student Aid (FAFSA),
- Complete and submit a Texas Application for State Financial Aid (TASFA), or
- Submit a signed Opt-Out Form in HISD Parent & Student Access.

### **College, Career, and Military Readiness (CCMR)**

CCMR works to ensure that all Texas high school students have access to high-quality pathways to career and college, with the purpose of preparing students for life after graduation. It is made up of curriculum, resources, programs, and activities that help students have the tools and skills necessary to enter college, the workforce, or the military.

The Texas Education Agency (TEA) has defined a set of indicators that students can earn to be considered college, career, and military ready. Readiness indicators are achieved by meeting specific requirements in the following:

- Meet TSI requirements via SAT, ACT, TSIA, or College Prep course in English and math
- Meet criteria of 3 on AP examinations
- Complete a dual credit or dual enrollment course (9 hours in any subject or 3 hours in English/math)
- Complete an OnRamps course
- Earn a Level I or Level II certificate
- Earn an Industry-based certification
- Complete a CTE program of study
- Graduate with completed IEP and workforce readiness
- Enlist in one of the armed forces

Each Huntsville ISD student is required to demonstrate college, career, and military readiness and earn a CCMR point as indicated by one of the areas above.

### **Early Graduation**

Students who wish to graduate early are recommended to file an early graduation plan no later than the end of 10<sup>th</sup> grade. The student and parent should make an appointment with the counselor to develop a graduation plan as soon as the decision is made. Providing course availability, graduating in less than four years could include taking approved coursework from other educational programs. Costs for any courses to complete an early graduation plan would be the responsibility of the student and family. Early graduates must complete the graduation requirements for the Foundation High School Plan with Endorsement.



### Eligibility for Participation in Commencement Services: Graduation Requirements

To receive a high school diploma from Huntsville Independent School District, a student must successfully complete the graduation requirements and pass required state End-of-Course (EOC) assessments. Alternative graduation plans require a conference with the counselor and approval by the parent/guardian and school principal. In order to participate, students must meet all deadlines, as communicated by the campus.

## **Overall Course Information**

Huntsville Independent School District provides opportunities for students to advance in their academic program by offering challenging courses at every level. Course offerings are described in detail later in this course planning guide.

Students may not take more than one required core course per academic school year in English, mathematics, science and social studies without approval. No student will be allowed to take a course in which he/she has not completed all the prerequisite course(s) without approval.

### **Course Availability**

Huntsville ISD takes great pride in ensuring the courses offered meet the needs of the students and community. A few factors that impact courses offered are campus size, student interest, teacher availability, and facility requirements.

### **Course Levels**

Huntsville ISD offers Level, Honors, Pre-Advanced Placement, Advanced Placement, Dual Credit, Dual Enrollment, Gifted and Talented, and Special Education courses.

#### Level

The content and requirements of these courses will provide preparation for college while also meeting the needs of students entering the workforce. Course content meets the requirements outlined in the Texas Administrative Code and district guidelines.

#### Honors (6<sup>th</sup> Grade only)

The Honors instruction is designed to accelerate and enrich content to prepare students for Pre-AP, Advanced Placement Dual Credit, or Dual Enrollment in that subject area. These courses require more individual initiative, analytical reading, student interaction, research, and time for outside class preparation.

#### Pre-Advanced Placement

Pre-Advanced Placement courses provide activities to expand the regular curricula. Students should expect to work in much greater depth requiring significant amounts of homework and/or study.

#### Advanced Placement (AP)

AP courses are the most advanced and rigorous academic courses offered by the district. This program gives students the opportunity to pursue college-level studies while still in secondary school and to receive advanced placement credit (dependent upon taking the AP test and achieving an acceptable score for individual colleges/universities) upon entering college.

All AP courses have received College Board authorization. For more information, refer to [www.collegeboard.com](http://www.collegeboard.com). Students should plan for one to two hours of homework per day per course. Students enrolled in AP courses are expected to take the College Board Advanced Placement tests in May.

Due to the difficulty level and additional course requirements, it is strongly recommended that students give serious consideration to the number of Advanced Placement courses taken.



### **Dual Credit**

Huntsville High School has a dual credit agreement with the Lone Star College System and Sam Houston State University which allows high school juniors and seniors who demonstrate college readiness on a placement exam to earn high school and college credits concurrently by attending classes on the HHS campus, with the principal's approval. Many of these classes are transferable to public colleges/universities in Texas; some are accepted by out-of-state and private colleges. It is the student's responsibility to contact individual universities to determine if credits transfer.

### **Dual Enrollment**

Dual Enrollment allows students to earn high school and potentially earn college credit while still in high school, by taking courses designed by the University of Texas and completing a specialized, college-level curriculum.

### **Gifted and Talented**

Gifted-Talented Interdisciplinary Studies Seminar, Pre-Advanced Placement and Advanced Placement serve the gifted and talented students. Information regarding testing for Gifted and Talented placement may be obtained in the counseling office.

### **Special Education**

In compliance with 19 TAC Chapter 75 and the Individuals with Disabilities Education Act (IDEA), students with special education needs are provided a well-balanced curriculum. Students receive instruction in the essential knowledge and skills, defined by the state curriculum guidelines, in a manner appropriate to their individual needs. Placement is determined by an Admissions, Review, and Dismissal (ARD) Committee and based on the least restrictive environment in which the student can operate successfully. The continuum of services offered in grades 9-12 includes the following: mainstream, co-teaching, inclusion support, resource, self-contained specialty classrooms, and vocational academic cooperative programs.

### **Level Changes**

Careful consideration should be given when deciding to take advanced courses as class sizes may limit a school's ability to allow a student to change levels. HISD strongly believes that Honors, Pre-AP, AP, Dual Credit, and Dual Enrollment courses provide enhanced opportunities for students that will assist them in future academic or nonacademic pursuits. At the same time, the district recognizes that students may experience initial difficulty in managing the increased course requirements. If a student has a concern, they should schedule an appointment with their counselor.

### **Advanced Course Agreement**

Advanced Placement courses will require additional time like those expected of a college-level course. Students are urged to consider how much time they will need to prepare for the advanced courses, other courses, and extracurricular activities prior to selecting courses.

Students enrolled in an Advanced Course are required to sign an Advanced Course Agreement, along with a parent signature. This agreement states that the student is expected to remain at the requested level for the entire year. At the end of the first semester, administration, parents, teacher, and student may evaluate the plan established earlier in the semester along with current student progress and may make an adjustment to the student's schedule. Any change will only be made on a space available basis.

### **Course Fees**

Certain courses require a fee to cover the cost of materials, projects, etc. beyond normal school supplies. The required fees are noted along with descriptions of courses. Contact your school for additional information.



## **Scheduling Process**

This course planning guide contains a brief description of every course offered, as well as grade level requirements and prerequisites. Elective courses are offered based on student interest. If there is insufficient enrollment for a course, or certified teachers are not available to teach the course, the course will not be offered, and an alternate listed on the student's pre-registration form will be used.

Huntsville High School and Mance Park Middle School offer a wide variety of programs and courses for our students. Selections during registration indicate how many teachers and sections will be needed for a course.

## **Registration**

Campuses will communicate course selection processes in the spring.

## **Schedule Changes**

Principals select and hire teachers and create the master schedule based on student course requests. Because these selections determine the schedule:

- Change-of-mind schedule changes will not be permitted after the 5<sup>th</sup> day of instruction
- During the first week of school, only changes pertaining to graduation plans, scheduling conflicts, and/or computer errors will be addressed.
  - Examples: 1) students signed up for Pre-AP Geometry and were scheduled into on level Geometry; 2) student successfully completed a course during summer school which is current on the schedule; and 3) student failed a prerequisite course.
- For requests to move down a level, the student must complete and submit the HHS Level Change Form which documents: 1) current grade average in class, 2) verification of tutorial attendance, and 3) student/parent/teacher conference. The grade earned in the current class will be the grade the student begins with in the new class. Requests for same level moves will not be taken.



## **Advanced Placement (AP), Dual Credit, Dual Enrollment – What’s the Difference?**

Knowing the difference between Advanced Placement (AP), Dual Credit, and Dual Enrollment courses will assist students in planning for both high school and postsecondary courses. \*Note: Dual Credit and Dual Enrollment requires Principal Approval.

	<b>Advanced Placement (AP)</b>	<b>Dual Credit (DC)</b>	<b>Dual Enrollment (UT OnRamps Program)</b>
<b>Description</b>	The AP program allows students to take college-level courses and the related AP exam, and to potentially earn college credit while still in high school.	Dual Credit allows students to simultaneously earn high school and college credit by successfully completing Lone Star College (LSC) or Sam Houston State University courses.	Dual Enrollment allows students to earn high school and potentially earn college credit while still in high school, by taking courses designed by the University of Texas and completing a specialized, college-level curriculum.
<b>College Credit</b>	College credit is granted when students pass the AP exam. Individual colleges and universities, not the College Board nor the AP program, grant college course credit and placement.	College credit is awarded when the student passes the course.	Students receive weighted high school credit when they successfully complete the course. Students also receive college credit if they qualify for and pass the college portion of the course.
<b>Teachers/Instructors</b>	Courses are taught by high school teachers using a curriculum approved by the College Board.	Taught by college instructors and/or high school teachers who serve as adjunct professors.	Taught by high school teachers in collaboration with University of Texas faculty.
<b>College/University Acceptance</b>	Accepted throughout the nation. Requires a score of 3 or higher on AP exam in Texas. Contact individual college/university for school’s AP policy.	Accepted at public colleges and universities in Texas, and many private universities. Check with individual college/university for academic requirements.	Guaranteed to be accepted at any public university in Texas. Accepted at most private universities. Check with individual college/university for academic requirements.
<b>Location</b>	AP courses are taught on the high school campus.	Dual credit courses are taught on the high school campus.	US OnRamps Dual Enrollment courses are taught on the high school campus.
<b>Eligibility</b>	Open to any student. Students are expected to have the skills and knowledge from prior Pre-AP courses and be motivated to work outside the school day on college level material.	Students must qualify by taking the Texas Success Initiative (TSIA2) test, or by having a STAAR EOC waiver. The TSIA2 test is offered free of charge in the district, or for a fee at LSC campus.	Open to students who show high achievement, but who wish to experience a college-level course, and are motivated to work outside of the school day on college level material. Most courses may require TSI scores to qualify for college credit in the spring.
<b>Cost</b>	AP courses are free. There is a fee for the corresponding AP exams. This fee is reduced for students who qualify for the free/reduced meal program.	Students who meet entrance requirements are eligible to enroll in dual credit courses offered by Lone Star College and Sam Houston State University. These courses may incur additional fees.	Students who meet entrance requirements are eligible to enroll in the UT OnRamps Dual Enrollment courses. These courses incur an additional fee.
<b>Textbooks</b>	Provided by the school.	Textbook purchase required.	Provided by the school.





## **Section 2: Mance Park Middle School Course Descriptions**

In the course description section of this guide, you will find a brief description of every course offered at Mance Park Middle School. Students and parents are encouraged to use this section to carefully plan course selections. Courses are organized by content area.

Each course description contains the following information:

- Course Name
- Course Code #
- Prerequisite, if applicable
- Course Credit
- Grade Level
- Course Description

### **Mance Park Middle School Administration**

Don Jackson	Principal	djackson@huntsville-isd.org
Charly Jaramillo	Dean of Curriculum & Instruction	cabaker@huntsville-isd.org
William Woods	8 <sup>th</sup> Grade Assistant Principal	wwoods@huntsville-isd.org
Ciara Bradley	7 <sup>th</sup> Grade Assistant Principal	cbradley@huntsville-isd.org
Melody Saladiner	6 <sup>th</sup> Grade Assistant Principal	mcsaladiner@huntsville-isd.org

Counselors are assigned by grade level:

6 <sup>th</sup> Grade	Toni Thomas	tthomas@huntsville-isd.org
7 <sup>th</sup> Grade	Jennifer Buchert	jlbuchert@huntsville-isd.org
8 <sup>th</sup> Grade	Guillermo Jimenez	gxjimenez@huntsville-isd.org

### **Mance Park Middle School Course Request Process**

In the spring semester, students and parents will be contacted by the school with detailed information and dates. The general course request process is as follows:

- Counselors will present to all students during class regarding course options and process
- Information from the Principal is sent home to families.
- Course selection sheets are sent home.
- Students select course requests and return to school.

Note: The course selection process allows students to choose what they would like to take and is no guarantee of placement. Schedules are confirmed before the start of the school year.



# Reading Language Arts

## **Reading Language Arts 6**

Course #: I611

Grade Level: 6

Course Credit: 1.0

Prerequisite: None

The program for the Grade 6 language arts covers the following major areas: fluency on grade level; speaking / listening using comprehension skills; analyze, infer, draw conclusions and provide evidence for theme, genre in different culture historical, and contemporary context, poetry structure, and elements, drama, and fiction/nonfiction; and understand, infer, draw, conclusions about sensory languages in literary text.

## **Honors Reading Language Arts 6**

Course #: I612

Grade Level: 6

Course Credit: 1.0

Prerequisite: None

This course focuses on the same strands as Reading Language Arts Grade 6 (see above), but also emphasizes advanced reading, analytical reasoning skills and expository writing to prepare students for the Pre-Advanced Placement program in high school. Summer reading is required. Reading lists are posted each spring on the district website.

## **Reading Language Arts 7**

Course #: M271

Grade Level: 7

Course Credit: 1.0

Prerequisite: None

Students build on previously learned skills while focusing on five curricular strands: Reading, where students read and understand a wide variety of literary and informational texts; Writing, where students compose a variety of written texts with a clear controlling idea, coherent organization, and sufficient detail; Research, where students are expected to know how to locate a range of relevant sources and evaluate, synthesize, and present ideas and information; Listening and Speaking, where students listen and respond to the ideas of others while contributing their own ideas in conversations and in groups; and Oral and Written Conventions, where students learn how to use the oral and written conventions of the English language in speaking and writing. Students will read and write across literary and informational genres. Expository writing is emphasized.

## **Honors Reading Language Arts 7**

Course #: M272

Grade Level: 7

Course Credit: 1.0

Prerequisite: None

This course focuses on the same strands as Reading Language Arts Grade 7 (see above), but also emphasizes advanced reading, analytical reasoning skills and expository writing to prepare students for the Pre-Advanced Placement program in high school. Summer reading is required. Reading lists are posted each spring on the district website.

## **Reading Language Arts 8**

Course #: M281

Grade Level: 8

Course Credit: 1.0

Prerequisite: None

8th grade further expands and refines the skills learned in Grade 7. Students will read within and across increasingly complex traditional, contemporary, classical, and diverse texts and demonstrate familiarity with works within a wide variety of genres. Students will engage in the writing of multi-paragraph compositions including literary, informational, argumentative, and correspondence and demonstrate organizational structure, a controlling idea or thesis and writing for a variety of audiences.

## **Honors Reading Language Arts 8**

Course #: M282

Grade Level: 8

Course Credit: 1.0

Prerequisite: None

This course focuses on the same strands as Reading Language Arts Grade 8 (see above), but also emphasizes advanced reading, analytical reasoning skills and expository writing to prepare students for the Pre-Advanced Placement program in high school. Summer reading is required. Reading lists are posted each spring on the district website. Students enrolled in this course will take the 8th grade Reading STAAR Test.



# Mathematics

## **Math 6**

Course #: I620

Grade Level: 6

Course Credit: 1.0

Prerequisite: none

The primary focal areas in Grade 6 are number and operations; proportionality; expressions, equations, and relationships; and measurement and data. Students use concepts, algorithms, and properties of rational numbers to explore mathematical relationships to describe increasingly complex situations.

## **Honors Math 6**

Course #: I622

Grade Level: 6

Course Credit: 1.0

Prerequisite: none

This course focuses on the same strands as Math 6 (see above) and is designed for students who excel in mathematics. It builds on foundational concepts while introducing more complex topics at an accelerated pace, preparing students for higher-level math courses in the future.

## **Math 7**

Course #: M371

Grade Level: 7

Course Credit: 1.0

Prerequisite: none

Throughout mathematics in Grade 7 students build a foundation of basic understandings in number, operation, and quantitative reasoning; patterns, relationships, and algebraic thinking; geometry and spatial reasoning; measurement; and probability and statistics.

## **Honors Math 7**

Course #: M372

Grade Level: 7

Course Credit: 1.0

Prerequisite: none

In this course, students study linear equations and inequalities, ratios and proportions, exponents and radicals. They are introduced to quadratic equations and develop critical thinking through analysis of factoring techniques. Students advance their understanding of algebraic topics and continue developing their problem-solving skills through studying the quadratic function, sequences & series, complex numbers, logarithms, and optimization. Students enrolled in this course will take the 8th grade Math STAAR Test.

## **Math 8: Pre-Algebra**

Course #: M381

Grade Level: 8

Course Credit: 1.0

Prerequisite: none

The primary focal areas in Grade 8 are proportionality; expressions, equations, relationships, and foundations of functions; and measurement and data. Students begin to develop an understanding of functional relationships. Students use geometric properties and relationships, as well as spatial reasoning, to model and analyze situations and solve problems. Students communicate information about geometric figures or situations by quantifying attributes, generalize procedures from measurement experiences, and use the procedures to solve problems. While the use of all types of technology is important, the emphasis on algebra readiness skills necessitates the implementation of graphing technology.

## **Algebra I**

Course #: J386

Grade Level: 8

Course Credit: 1.0

Prerequisite: Recommended Honors Math 7

Students will build on the knowledge and skills for mathematics in Grades 6-7, which provide a foundation in linear relationships, number and operations, and proportionality. Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology to collect and explore data and analyze statistical relationships.



# Science

## **Science 6**

Course #: I630

Grade Level: 6

Course Credit: 1.0

Prerequisite: none

In Grades 6 through 8 Science, content is organized into recurring strands. The concepts within each grade level build on prior knowledge, prepare students for the next grade level, and establish a foundation for high school courses. In Grade 6, beginning concepts in the following strands are discussed: scientific and engineering practices; matter and energy; force, motion, and energy; earth and space; and organisms and environments.

## **Honors Science 6**

Course #: I632

Grade Level: 6

Course Credit: 1.0

Prerequisite: none

This course focuses on the same strands as Science 6 (see above) and is designed for students who excel in science. It builds on foundational concepts while introducing more complex topics at an accelerated pace, preparing students for higher-level science courses in the future.

## **Science 7**

Course #: M471

Grade Level: 7

Course Credit: 1.0

Prerequisite: none

Science is a course of study coordinating thematic instruction across the science discipline of biology. The curriculum has a balance of content and activities that guides students toward the discovery of the basic principles, with a focus on organisms and the environment, and the processes involved. The curriculum includes natural events and human activities that impact Earth, components of the solar system, ecology, structure/function of cells and body systems, response to stimuli, and genetics. The study of science includes conducting field and laboratory investigations using scientific methods for analyzing data to make informed decisions.

## **Honors Science 7**

Course #: M472

Grade Level: 7

Course Credit: 1.0

Prerequisite: none

This course is for students who are highly motivated and interested in a rigorous science program. This course incorporates the Science 7 curriculum and allows students to construct their own understanding through an inquiry-based approach while encouraging advanced skills, in-depth discussion, more comprehensive lab work and increased independent study. Class assignments and activities build on and expand higher level thinking skills of analysis, synthesis, evaluation, and integrate units that promote scientific connections and connections with other disciplines. Special projects are assigned during the year, which require individual research on the Internet or at a local library. Classroom presentations are expected. This course will help prepare students to take Honors Science 8.

## **Science 8**

Course #: M481

Grade Level: 8

Course Credit: 1.0

Prerequisite: none

Scientific inquiry is the planned and deliberate investigation of the natural world using scientific and engineering practices. Scientific methods of investigation are descriptive, correlative, comparative, or experimental. Learning for different types of investigations includes descriptive investigations, which have no hypothesis that tentatively answers the research question and involve collecting data and recording observations without making comparisons; correlative and comparative investigations, which have a hypothesis that predicts a relationship and involve collecting data, measuring variables relevant to the hypothesis that are manipulated, and comparing results; and experimental investigations, which involve processes similar to comparative investigations but in which a hypothesis can be tested by comparing a treatment with a control.

## **Honors Science 8**

Course #: M482

Grade Level: 8

Course Credit: 1.0

Prerequisite: none

The course increases the depth of understanding of life science, physical science, and earth and space science and prepares students for high school science. With each unit, students will use the NGSS Crosscutting Concepts to make sense of natural phenomena. Students analyze phenomena in terms of patterns, cause and effect, system-thinking, structure and function, and stability and change.



# Social Studies

## **Social Studies 6**

Course #: I640

Grade Level: 6

Course Credit: 1.0

Prerequisite: none

In Grade 6, students study people, places, and societies of the contemporary world. Societies for study are from the following regions of the world: Europe, Russia and the Eurasian republics, North America, Central America and the Caribbean, South America, Southwest Asia, North Africa, Sub-Saharan Africa, South Asia, East Asia, Southeast Asia, Australia, and the Pacific realm.

## **Honors Social Studies 6**

Course #: I642

Grade Level: 6

Course Credit: 1.0

Prerequisite: None

This course focuses on the same strands as Social Studies 6 (see above) and is designed for students who excel in social studies. It builds on foundational concepts while introducing more complex topics at an accelerated pace, preparing students for higher-level social studies courses in the future.

## **Social Studies 7**

Course #: M571

Grade Level: 7

Course Credit: 1.0

Prerequisite: None

Students will gain a comprehensive understanding of the development of Texas from exploration to the present, concentrating on the themes of the environment, diversity of its people, significant historical events, and the dynamics of change. Students will learn how physical features and natural resources of Texas have affected patterns of settlement and economic development. Through reading, writing, and discussion, students will develop skills in analyzing social studies relationships, interpreting data, forming generalizations and conclusions, and applying problem solving and critical thinking skills.

## **Honors Social Studies 7**

Course #: M572

Grade Level: 7

Course Credit: 1.0

Prerequisite: None

This course is for students who are highly motivated and interested in a rigorous Social Studies program. Honors Social Studies covers the Grade 7 content including Texas history and geography. Students will read extensively from primary and secondary sources, analyze issues and events, prepare oral and written presentations, and develop projects based on individual and group research. The course will include writing for the purpose of historical analysis and help prepare students to take Social Studies Advanced Placement courses in high school. Outside reading may be required.

## **Social Studies 8**

Course #: M581

Grade Level: 8

Course Credit: 1.0

Prerequisite: none

Students study the history of the United States from Exploration through Reconstruction. Historical content focuses on the political, economic, and social events during this period. Students examine the American beliefs and principles reflected in the U.S. Constitution and other historical documents. They study the rights and responsibilities of citizens of the United States as well as the importance of effective leadership in a democratic society.

## **Honors Social Studies 8**

Course #: M582

Grade Level: 8

Course Credit: 1.0

Prerequisite: none

This course is for students who are highly motivated and interested in a rigorous Social Studies program. The purpose of the Honors Social Studies Grade 8 course is to develop a deeper understanding of America's history from Exploration through Reconstruction. Students will read extensively from primary and secondary sources, analyze issues and events, conduct in-depth research, prepare oral and written presentations, and develop projects based on individual and group research. The course will include writing for the purpose of historical analysis and help prepare students to take social studies Advanced Placement courses in high school. Outside reading may be required.



# **Physical Education & Athletics**

## **Pre-Athletics**

Course #: Boys I671, Girls I670

Grade Level: 6

Course Credit: 1.0

Prerequisite: none

In Grades 6-8 physical education, students apply sport concepts; recognize key elements for success; develop plans for health-related fitness, skill-related fitness, and skill improvement; apply knowledge of safety practices and self-management; and understand in greater detail the function of the body. Students learn to use technology to assist in measuring and monitoring personal performance. An emphasis is placed on opportunities for participation, activity choices, enjoyment, and challenge, both in and out of school.

## **Girls Athletics**

Course #: 7<sup>th</sup> M193, 8<sup>th</sup> M103

Grade Level: 7-8

Course Credit: 1.0

Prerequisite: none

Students will participate in athletic activities during this class, which can be substituted for a physical education credit. Students will learn grade level physical education curriculum during the off-season.

## **Boys Athletics**

Course #: 7<sup>th</sup> M194, 8<sup>th</sup> M104

Grade Level: 7-8

Course Credit: 1.0

Prerequisite: none

Students will participate in athletic activities during this class, which can be substituted for a physical education credit. Students will learn grade level physical education curriculum during the off-season.

## **7<sup>th</sup> Grade Physical Education**

Course #: Boys M102, Girls M101

Grade Level: 7

Course Credit: 1.0

Prerequisite: none

Students in Grade 7 physical education will apply similar concepts from one sport or movement setting to another. At this grade level, students are expected to participate in physical activity both in and out of school while maintaining a healthy level of fitness as their bodies grow and change. Instruction is directed toward encouraging the incorporation of physical activity into a daily routine and less toward fundamental skill development.

## **8<sup>th</sup> Grade Physical Education**

Course #: Boys M102, Girls M101

Grade Level: 8

Course Credit: 1.0

Prerequisite: none

Students in Grade 8 physical education will continue to understand the need to remain physically active throughout life by participating in enjoyable lifetime activities in and out of school. Students will be able to demonstrate higher-level movement skills, strategies and tactics within game play. Students will learn the components of fitness.

# **Languages other than English (LOTE)**

## **Spanish 1**

Course #: J731

Grade Level: 8

Course Credit: 1.0 (High School Credit Course)

Prerequisite: none

This course is an introduction to the Spanish language and Spanish-speaking people with emphasis on speaking and listening skills and the beginning of reading and writing skills.





# *Fine Arts*

## **Art 6**

Course #: 03154100

Grade Level: 6

Course Credit: 1.0

Prerequisite: none

The fine arts develop cognitive functioning and increase student academic achievement, higher-order thinking, communication, and collaboration skills, making the fine arts applicable to college readiness, career opportunities, workplace environments, social skills, and everyday life. Art focuses on four basic strands: foundations; creative expression; historical and cultural relevance; and critical evaluation and response.

## **Art 7**

Course #: 03154210

Grade Level: 7

Course Credit: 1.0

Prerequisite: none

The student develops and expands visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. The student communicates ideas through original artworks using a variety of media with appropriate skills. The student demonstrates an understanding of art history and culture by analyzing artistic styles, historical periods, and a variety of cultures. The student responds to and analyzes artworks of self and others, contributing to the development of the lifelong skills of making informed judgments and reasoned evaluations.

## **Art 8**

Course #: 03154310

Grade Level: 8

Course Credit: 1.0

Prerequisite: none

The student develops and expands visual literacy skills using critical thinking, imagination, and the senses to observe and explore the world by learning about, understanding, and applying the elements of art, principles of design, and expressive qualities. The student expresses thoughts and ideas creatively while challenging the imagination, fostering reflective thinking, and developing disciplined effort and progressive problem-solving skills. The student develops global awareness and respect for the traditions and contributions of diverse cultures. The student responds to and analyzes artworks of self and others, contributing to the development of the lifelong skills of making informed judgments and reasoned evaluations.

## **Beginner Band**

Course #: 03154130

Grade Level: 6

Course Credit: 1.0

Prerequisite: none

Students are introduced to the fundamentals of band instruments. Students are required to furnish their own instruments. However, some instruments may be available for use. You can expect five (5) out-of-school rehearsals and performances that are required.

## **Concert Band 1**

Course #: 03154230

Grade Level: 7-8

Course Credit: 1.0

Prerequisite: Beginner Band, Evaluation

This class is designed for second and third year band students. This is an introductory performance-level class. Students will build on the fundamental skills they learned in previous band classes to improve tone and technique. All students are expected to perform at pep rallies, contests, and concerts.

## **Concert Band 2**

Course #: 03154330

Grade Level: 7-8

Course Credit: 1.0

Prerequisite: Beginner Band, Evaluation

This course is open to 7th and 8th grade students interested in being part of the band at the high school level. Directors will decide what instruments the students will play. Students in Concert Band 2 will not compete in contests but will perform at all Band concerts. This class will prepare students to be in the upper level bands at Mance Park and Huntsville High School.



### **Symphonic Band**

Course #: M114

Grade Level: 7-8

Course Credit: 1.0

Prerequisite: none

This course is designed for second and third year band students. Members will learn musical instrumental techniques, musical expression, and different styles of music. All students are required to perform at contests and concerts. Students wishing to advance to Symphonic Winds, Wind Ensemble, or any part of the Huntsville High School Band should take this class. Students can expect weekly, required out-of-school events.

### **Symphonic Winds**

Course #: M112

Grade Level: 7-8

Course Credit: 1.0

Prerequisite: none

This course is designed for second and third year band students. Members will learn advanced musical instrumental techniques, musical expression, and different styles of music. All students are required to perform at contests and concerts. Students wishing to advance to Wind Ensemble or any part of the Huntsville High School Band should take this class. Students can expect weekly, required out-of-school events.

### **Wind Ensemble**

Course #: M113

Grade Level: 7-8

Course Credit: 1.0

Prerequisite: none

This course is designed for second and third year band members who have already advanced to a higher musical level. Wind Ensemble is the top musical performing group at Mance Park and will be treated as such. Members of the Wind Ensemble will have numerous out-of-class expectations in addition to high musical demands. Wind Ensemble students will perform at pep rallies, concerts, and various contests. Members are expected to continue in the HHS Band Program. Students can expect weekly, required out-of-school events.

### **Choir**

Choir Grade 6

Course #: 03154131

Grade Level: 6

Course Credit: 1.0

Choir Grade 7

Course #: 03154231

Grade Level: 7

Course Credit: 1.0

Choir Grade 8

Course #: 03154331

Grade Level: 8

Course Credit: 1.0

Prerequisite: none

This course is a performance-oriented course and teaches unison, two, three and four-part choral literature. Musicianship is developed through the study of vocal techniques, sight-reading skills, and music listening. Out-of-school rehearsals and public performances are required.

### **Yearbook**

Course #: 7<sup>th</sup> M720, 8<sup>th</sup> M820

Grade Level: 7-8

Course Credit: 1.0

Prerequisite: none

This course includes planning and developing a theme for a school yearbook. It provides practice and application in writing captions and copy to produce the yearbook. Students learn to edit and proof yearbook material. Students also plan advertising, sales, and distribution campaigns. Students use computers to produce, copy and keep records.

### **Photo Journalism**

Course #: 7<sup>th</sup> M175, 8<sup>th</sup> M185

Grade Level: 7-8

Course Credit: 1.0

Prerequisite: none

This course is designed for students interested in photography positions and includes the study of journalistic photography, camera techniques, film and print developing and photocomposition. Students will learn how to shoot and edit videos and will be responsible for processing photos.

### **Theater for Middle School**

Course #: 03154140

Grade Level: 6-8

Course Credit: 1.0

Prerequisite: none

This course is an introduction to the theatre. It includes expressive use of the voice and body, acting concepts and skills, theatre production and appreciation of live theatrical events.



### **Intro to Dance 1**

Course #: 7<sup>th</sup> M793, 8<sup>th</sup> M893

Grade Level: 7-8

Course Credit: 1.0

Prerequisite: none

This course is an introductory course that provides students with an exploration of the fundamentals of movement. Aerobic fitness dance, recreational dance, and dance forms including ballet, folk/ethnic, jazz, tap, precision, hip hop, lyrical, and modern will challenge the students to employ both fine and gross motor skills. Students receive a brief historical overview of dance. Choreography/dance composition will be covered as well. This course is a starting point for those students interested in being in the Drill Team at Huntsville High School and may require an audition.

## **General Electives**

### **Technology Applications**

Course #: 02670060

Grade Level: 6

Course Credit: 1.0

Prerequisite: None

This course introduces the use of the computer in a business setting. Office applications, use of the Internet, and searching online databases are introduced and discussed. Applications including word processing, spreadsheets, databases and graphics programs are used. Students will learn to use the applications to analyze and solve basic business problems. 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 post-secondary education.

### **Touch Systems Data Entry**

Course #: 13011300

Grade Level: 7

Course Credit: 0.5 (High School Credit Course)

Prerequisite: None

Students apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will need to apply touch system data entry skills for production of business documents.

### **Interpersonal Studies**

Course #: J741

Grade Level: 7

Course Credit: 0.5 (High School Credit Course)

Prerequisite: None

Examines the relationship between individuals and family members and how it can 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.

### **Teen Leadership**

Course #: 7<sup>th</sup> M892V, 8<sup>th</sup> M893V

Grade Level: 7-8

Course Credit: 1.0

Prerequisite: None

This course teaches leadership, and personal and business skills. Students will develop an understanding of emotional intelligence that includes self-awareness, self-control, self-motivation, and social skills. Students will learn skills in public speaking and communication, and an understanding of personal image. They will be taught the concept of principle based decision making and develop their own personal mission statement. They will develop an understanding of the effects of peer pressure and will learn skills to counteract those effects. In addition, Teen Leadership provides the opportunity to learn about healthy self-concept, relationships, and a sense of personal responsibility. Finally, students will develop an understanding of the need for vision in goal setting, both personally and professionally.



# Career & Technical Education (CTE)



## Agriculture, Food, and Natural Resources

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

Course #: 13000200

Grade Level: 7-8

Course Credit: 1.0 (High School Credit Course)

Prerequisite: None

This course allows students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations. This course enhances the agricultural comprehension of young adults. It includes agricultural career development, leadership, communications and personal finances. This course also includes an overview of soil and plants, animals, and agricultural construction.

### Landscape Design and Management

Course #: 13001900

Grade Level: 8

Course Credit: 0.5 (High School Credit Course)

Prerequisites: Recommended Principles of Agriculture, Food, and Natural Resources

Focuses on plant identification, selection, care, and maintenance as well as planting, planning, and developing a basic landscape. This course focuses on both residential landscaping.

### Turf Grass Management

Course #: 13001950

Grade Level: 8

Course Credit: 0.5 (High School Credit Course)

Prerequisites: Recommended Principles of Agriculture, Food, and Natural Resources

This course is designed to develop an understanding of turf grass 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.

## Arts, Audio/Visual Technology, and Communications Career Cluster

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

Course #: 13008200

Grade Level: 8

Course Credit: 1.0 (High School Credit Course)

Prerequisites: None

The goal of this course is that the student understands arts, audio/video technology, and communications systems. 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.



## Business, Marketing, and Finance

### Principles of Business, Marketing, and Finance

Course #: 13011200

Grade Level: 8

Course Credit: 1.0 (High School Credit Course)

Prerequisite: None

Students apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software. Students will identify and practice effective interpersonal and team-building skills involving situations with co-workers, supervisors, and clients.



### **General Employability Skills**

Course #: 7<sup>th</sup> M681, 8<sup>th</sup> M672

Grade Level: 7-8

Course Credit: 0.5 (High School Credit Course)

Prerequisite: None

This course provides students with knowledge of the prerequisite skills for general employment as well as the means of obtaining those skills. Employability skills include fundamentals of maintenance of personal appearance and grooming. The course also includes the knowledge, skills, and attitudes that allow employees to get along with their co-workers, make important work-related decisions, and become strong members of the work team. Discovering job possibilities that link skills, abilities, interests, values, needs, and work environment preferences is a part of the process of obtaining employability skills and abilities and is experiential learning that takes place over time.



## **Education & Training**

### **Principles of Education & Training**

Course #: 13014200

Grade Level: 8

Course Credit: 1.0 (High School Credit Course)

Prerequisite: None

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

### **Principles of Hospitality & Tourism**

Course #: 13022200

Grade Level: 8

Course Credit: 1.0 (High School Credit Course)

Prerequisite: None

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



## **Section 3: Huntsville High School Course Descriptions**

In the course description section of this guide, you will find a brief description of every course offered at Huntsville High School. Students and parents are encouraged to use this section to carefully plan course selections. Courses are organized by content area.

Each course description contains the following information:

- Course Name
- Course Code #
- Prerequisite, if applicable
- Course Credit
- Grade Level
- Course Description

### **Huntsville High School Administration**

Robert Gilbert	Principal	rcgilbert@huntsville-isd.org
Colby Oliphant	Associate Principal	coliphant@huntsville-isd.org
Jacki Dawson	Dean of Instruction	jmdawson@huntsville-isd.org

Assistant Principals are assigned by last name:

A – C	Lisa Black-Newsome	lblack@huntsville-isd.org
D – H	Stefanie Gregg	sbgregg@huntsville-isd.org
I – N	Juan Torres	jatorres@huntsville-isd.org
O – S	Courtney McClendon	cmclendon@huntsville-isd.org
T – Z	Robert Wilson	rwilson2@huntsville-isd.org

Counselors are assigned by last name:

A – C	Jennifer Quirino	jrsquirino@huntsville-isd.org
D – H	Todd Nall	tdnall@huntsville-isd.org
I – N	Elizabeth Matchett	ematchett@huntsville-isd.org
O – S	Kelli Vossler	kvossler@huntsville-isd.org
T – Z	Marsha Stringer, Lead Counselor	mstringer@huntsville-isd.org

### **Huntsville High School Course Selection Process**

In the spring semester, students and parents will be contacted by the school with detailed information and dates. The general course request process is as follows:

- Counselors present to all students during class regarding course options and process
- Counselors meet with students individually to select courses. Copies of selections are sent home.
- Schedules are confirmed in the fall before the start of the school year.

**Note:** The course selection process allows students to choose what they would like to take and is no guarantee of placement. Schedules are confirmed before the start of the school year.





# Reading Language Arts

## **English 1**

Course #: 03220100

Grade Level: 9-10

Course Credit: 1.0

Prerequisites: None

This course integrates the study of composition, language, literature, and reading. Students will read and write regularly. The study of vocabulary, grammar, and study skills are embedded to develop student's critical reading and writing skills. Students will read and respond to a variety of literary genres and will develop essays through all stages of the writing process.

## **Pre-AP English 1**

Course #: Q0322010

Grade Level: 9-10

Course Credit: 1.0

Prerequisites: Recommended Honors Reading Language Arts 8

This course focuses on reading, writing, and language skills that are relevant to student's current work and essential for future high school and college coursework. Texts take center stage, preparing students for close, critical reading and analytical writing. The course trains readers to observe small details in a text to arrive at a deeper understanding of the whole. It also trains writers to create complex sentences. This course has a required summer assignment, and it is the student's responsibility to obtain and complete this assignment. This course requires a parent/student/teacher contract.

## **English 2**

Course #: 03220200

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: English 1

This course integrates the study of composition, language, literature, and reading. Students will read and write regularly. The curriculum is designed to reinforce vocabulary, grammar, and study skills previously studied in English 1 to further develop student's critical reading and writing skills. A thematic approach is used as students read and respond to a variety of literary genres. Students will develop essays through all stages of the writing process.

## **Pre-AP English 2**

Course #: Q0322020

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: Recommended Pre-AP English 1

This course builds on the foundations of Pre-AP English 1. While English 1 introduces the fundamentals of close observation, critical analysis, and the appreciation of author's craft, this course requires students to apply those practices to a new array of nonfiction and literary texts. As readers, students become aware of how poets, playwrights, novelists, and writers of nonfiction manipulate language to serve their purposes. As writers, students compose more nuanced analytical essays while never losing sight of craft and cohesion. This course is strongly recommended as a prerequisite of AP English 3. This course has a required summer assignment, and it is the student's responsibility to obtain and complete this assignment. This course requires a parent/student/teacher contract.

## **English EOC Prep**

Course #:

Grade Level: 9-10

Course Credit: 1.0 (Local Credit Only)

Prerequisites: None

\*\*This course is designed to prepare students for EOC testing. Student enrollment is determined by campus personnel based on graduation requirements. \*\*

## **English 3**

Course #: 03220300

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: English 2

This course covers American literature from its beginning to present, studies by genres: short story, poetry, and the novel. Courses enhance students' awareness of language and its importance in the modern world.



### **AP English 3 Language & Composition**

Course #: A3220100 Grade Level: 11-12

Course Credit: 1.0 Prerequisites: Recommended Pre-AP English 2

This course emphasizes expository, analytical, and argumentative writing that forms the basis of academic and professional communication, as well as personal and reflective writing. Extensive, close reading of a variety of texts enables students to be more prepared for the College Board's AP Language exam. This course has a required summer assignment, and it is the student's responsibility to obtain and complete this assignment. Students are expected to take the AP exam. This course requires a parent/student/teacher contract. Additional fees may apply.

### **English 4**

Course #: 03220400

Grade Level: 12

Course Credit: 1.0

Prerequisites: English 3

This is a senior level course emphasizing the fundamentals of the English language through the study of British literature from 450 to the 20th century. An extensive focus will be placed on composition and language practice.

### **Dual Credit English Comp 1 and English Comp 2 (HHS/Lone Star College)**

Course #: D0322040

Grade Level: 12

Course Credit: 1.0

Dual Credit: 3 Hours

Prerequisites: English 3, Application Process; Successfully pass TSI Reading and Writing

A multi-paragraph composition course, this course includes language study and the mechanics of writing with examples of selected readings. This course has an emphasis on critical papers culminating in a term paper or papers. Readings include prose, poetry and drama. This course provides dual credit through Lone Star College and all students are required to adhere to the Lone Star College policies, grading procedures and fees. Refer to Lone Star College for more details. Additional fees may apply.

### **AP English 4 Literature & Composition**

Course #: A3220200

Grade Level: 12

Course Credit: 1.0

Prerequisites: Recommended AP English 3 Language & Composition

This course engages students in the careful reading and critical analysis of literature from several genres and periods from the 16th to the 21st century. Students consider a work's structure, style, and themes as well as figurative language, imagery, symbolism, and tone. This course has a required summer assignment, and it is the student's responsibility to obtain and complete this assignment. Students are expected to take the AP exam. This course requires a parent/student/teacher contract. Additional fees may apply.

### **Reading 1**

Course #: 03270700

Grade Level: 9-12

Course Credit: 0.5

Prerequisites: None

This course offers students instruction in word recognition and comprehension strategies and vocabulary to ensure that high school students have an opportunity to read with competence, confidence, and understanding. Students will use a variety of instructional opportunities (including computer-based instruction) to locate information in varied sources, to read critically, to evaluate sources and to draw supportable conclusions.

### **Reading 2**

Course #: 03270800

Grade Level: 9-12

Course Credit: 0.5

Prerequisites: Reading 1

This course offers students instruction in word recognition and comprehension strategies and vocabulary to ensure that high school students have an opportunity to read with competence, confidence, and understanding. Students will use a variety of instructional opportunities (including computer-based instruction) to locate information in varied sources, to read critically, to evaluate sources and to draw supportable conclusions.

### **ELDA 1 – English Language Development and Acquisition**

Course #: 03200800

Grade Level: 9

Course Credit: 1.0

Prerequisites: LPAC Approval

This course enables students to become increasingly more proficient in English in all four language domains. It addresses cognitive,



linguistic, and affective needs. It will develop social language, survival vocabulary, and the basic building blocks of literacy for newly arrived and preliterate students.

### **ELDA 2 – English Language Development and Acquisition**

Course #: 03200810

Grade Level: 10

Course Credit: 1.0

Prerequisites: LPAC Approval

This course enables students to become increasingly more proficient in English in all four language domains. It addresses cognitive, linguistic, and affective needs. It will develop social language, survival vocabulary, and the basic building blocks of literacy for newly arrived and preliterate students.

### **English for Speakers of Other Languages 1**

Course #: 03200600

Grade Level: 9

Course Credit: 1.0

Prerequisites: LPAC Approval

This course provides students intensive practice in listening, speaking, reading and writing English. ESOL I may be substituted for English I for ESOL students.

### **English for Speakers of Other Languages 2**

Course #: 03200700

Grade Level: 10

Course Credit: 1.0

Prerequisites: LPAC Approval

This course provides students intensive practice in listening, speaking, reading and writing English. ESOL II may be substituted for English II for ESOL students.

### **College Prep English Language Arts**

Course #: CP110100

Grade Level: 12

Course Credit: 1.0

Prerequisites: English 1

In this college-preparatory course, students will improve integrated critical reading, writing, and thinking skills through engagement with a variety of texts across content areas and genres. As a result, students will be able to develop and express ideas clearly and effectively to communicate with various audiences for different purposes and occasions. This course satisfies the required fourth English credit.

### **Journalism**

Course #: 03230100

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

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

### **Photo Journalism**

Course #: 03230800

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: None

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



### **Advanced Journalism: Yearbook**

Advanced Journalism: Yearbook 1	Course #: 03230110	Grade Level: 10-12	Course Credit: 1.0
Advanced Journalism: Yearbook 2	Course #: 03230120	Grade Level: 10-12	Course Credit: 1.0
Advanced Journalism: Yearbook 3	Course #: 03230130	Grade Level: 11-12	Course Credit: 1.0

Prerequisites: Journalism for Yearbook 1; completion of previous courses are student progresses

This course includes planning and developing a theme for a school yearbook. It provides practice and application in writing captions and copy to produce the yearbook. Students learn to edit and proof yearbook material. Students also plan advertising, sales, and distribution campaigns. Students use computers to produce, copy and keep records.

### **Advanced Journalism: Newspaper**

Advanced Journalism: Newspaper 1	Course #: 03230140	Grade Level: 10-12	Course Credit: 1.0
Advanced Journalism: Newspaper 2	Course #: 03230150	Grade Level: 10-12	Course Credit: 1.0
Advanced Journalism: Newspaper 3	Course #: 03230160	Grade Level: 11-12	Course Credit: 1.0

Prerequisites: Journalism for Yearbook 1; completion of previous courses are student progresses

This course includes planning and developing a theme for a school newspaper. It provides practice and application in writing captions and copy to produce the newspaper. Students learn to edit and proof newspaper material. Students also plan advertising, sales, and distribution campaigns. Students use computers to produce, copy and keep records.



# Mathematics

## **Algebra 1**

Course #: 03100500

Grade Level: 9-10

Course Credit: 1.0

Prerequisites: None

Students will build on the knowledge and skills for mathematics in Grades 6-8, which provide a foundation in linear relationships, number and operations, and proportionality. Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology to collect and explore data and analyze statistical relationships.

## **Algebraic Reasoning**

Course #:

Grade Level: 9-10

Course Credit: 1.0

Prerequisites: Algebra I

In Algebraic Reasoning, students will build on the knowledge and skills for mathematics in Kindergarten- Grade 8 and Algebra I. They will continue with the development of mathematical reasoning related to algebraic understandings and processes, and deepen a foundation for studies in subsequent mathematics courses. The students will study functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build to workforce and college readiness.

\*This course is designed to benefit students who do not meet Algebra I EOC requirements. The course builds upon the skills taught in Algebra I and bridges the gap with Geometry so they are able to be successful in future mathematics courses. Students will be enrolled in this course based on graduation requirements. \*

## **Algebra 1 EOC Prep**

Course #:

Grade Level: 9-10

Course Credit: 1.0 (Local Credit Only)

Prerequisites: None

\*This course is designed to prepare students for EOC testing. Student enrollment is determined by campus personnel based on graduation requirements. \*

## **Pre-AP Algebra 1**

Course #: Q0310050

Grade Level: 9-10

Course Credit: 1.0

Prerequisites: None

Students develop a deep understanding of linear relationships emphasizing patterns of change, multiple representations of functions and equations, modeling real world scenarios with functions, and methods for finding and representing solutions of equations and inequalities. Taken together, these ideas provide powerful conceptual tools that students can use to make sense of their world through mathematics. This course requires a parent/student/teacher contract.

## **Dual Credit College Algebra (Sam Houston State University)**

Course #: D0310250

Grade Level: 12

Course Credit: 0.5

Dual Credit: 3 Hours

Prerequisites: Placement by testing

In-depth study and application of polynomial, rational, radical, absolute value, piecewise defined, exponential and logarithmic functions, equations, inequalities, graphing skills, and systems of equations using matrices. additional topics such as sequences, series, probability, conics, and inverses may be included. This course provides dual credit through Sam Houston State University and all students are required to adhere to SHSU policies, grading procedures and fees. Refer to SHSU for more details. Additional fees may apply.

## **Dual Credit Trigonometry (Sam Houston State University)**

Course #: 03102500

Grade Level: 12

Course Credit: 0.5

Dual Credit: 3 Hours

Prerequisites: Dual Credit College Algebra or placement by testing



Students study coordinate systems, circular functions, solutions of triangles, identities, trigonometric equations, and inverse functions. This course provides dual credit through Sam Houston State University and all students are required to adhere to SHSU policies, grading procedures and fees. Refer to SHSU for more details. Additional fees may apply.

### **Geometry**

Course #: 03100700

Grade Level: 9-11

Course Credit: 1.0

Prerequisites: Algebra 1

Students will build on the knowledge and skills to strengthen their mathematical reasoning skills in geometric contexts. Within the course, students will begin to focus on more precise terminology, symbolic representations, and the development of proofs. 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.

### **Pre-AP Geometry**

Course #: Q0310070

Grade Level: 9-11

Course Credit: 1.0

Prerequisites: Algebra 1

The principles of Geometry are covered in this rigorous course and extended to prepare students for advanced mathematics. This course requires a parent/student/teacher contract.

### **Algebra 2**

Course #: 03100600

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: Algebra 1

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.

### **Pre-AP Algebra 2**

Course #: Q0310060

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: Recommended Pre-AP Geometry

Students solidify and extend the understanding of functions and data analysis developed in prior courses. Students build upon linear, quadratic, and exponential functions as they work to define logarithmic, polynomial, rational, square root, cube root, and trigonometric functions. Quantitative literacy is developed by weaving data sets, contextual scenarios, and mathematical modeling throughout the course. This course requires a parent/student/teacher contract.

### **Pre-Calculus**

Course #: 03101100

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Geometry, Algebra 2

This course is the preparation for calculus. The course approaches topics from a function point of view, where appropriate, and is designed to strengthen and enhance conceptual understanding and mathematical reasoning used when modeling and solving mathematical and real-world problems. Students systematically work with functions and their multiple representations.

### **Pre-AP Pre-Calculus**

Course #: Q0310110

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Recommended Pre-AP Geometry and Pre-AP Algebra 2

This course includes a more rigorous study of transformation on parent graphs, polynomial and rational functions, conic sections, exponents and logarithms, sequences and series, right triangle and oblique triangle applications, trigonometric functions, sinusoidal models, trigonometric identities, trigonometric equations, and polar graphs. This course requires a parent/student/teacher contract.

### **Math Models**

Course #: 03102400

Grade Level: 9-12

Course Credit: 1.0



Prerequisites: Algebra 1, Geometry

Students use a variety of representations (concrete, numerical, algorithmic and graphical) tools and technology to link modeling techniques and purely mathematical concepts to solve applied problems. This course must be taken prior to Algebra II if taken to satisfy a fourth math credit.

### **College Prep Mathematics**

Course #: CP111200

Grade Level: 12

Course Credit: 1.0

Prerequisites: Algebra 1

Topics include real numbers, basic geometry, polynomials, factoring, linear equations, inequalities, quadratic equations, rational expressions, factoring techniques, radicals, algebraic fractions, complex numbers, graphing linear equations and inequalities, systems of equations, graphic quadratic equations and an introduction to functions. Emphasis is placed on algebraic techniques, to successfully complete an entry level college mathematics course. This course satisfies the required fourth math credit.

### **AP Calculus**

Course #: A3100101

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Pre-Calculus

Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions. Students are expected to take the AP exam. This course requires a parent/student/teacher contract. Additional fees may apply.

### **Dual Credit Elementary Statistics (Sam Houston State University)**

Course #: D03102500

Grade Level: 12

Course Credit: 0.5

Dual Credit: 3 Hours

Prerequisites: College Algebra

Students engage in a survey in elementary statistics in order to acquaint students with the role of statistics in society. Coverage may include graphical descriptive methods, measures of central tendency and variation, the basic concepts of statistical inference, the notion of estimators, confidence intervals, and tests of hypotheses. This course provides dual credit through Sam Houston State University and all students are required to adhere to SHSU policies, grading procedures and fees. Refer to SHSU for more details. Additional fees may apply.

### **Financial Mathematics**

Course #: 13018000

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Algebra I

This course is about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors. This course is part of the Career & Technical Education Program of Study.





# Science

## **Integrated Physics & Chemistry**

Course #: 03060201

Grade Level: 9-10

Course Credit: 1.0

Prerequisites: None

Students conduct laboratory and field investigations, use engineering practices, use scientific practices during investigation, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: force, motion, energy, and matter.

## **Biology 1**

Course #: 03010200

Grade Level: 9-10

Course Credit: 1.0

Prerequisites: None

Students will focus on patterns, processes, and relationships of living organisms through four main concepts: biological structures, functions, and processes; mechanisms of genetics; biological evolution; and interdependence within environmental systems.

## **Pre-AP Biology**

Course #: Q0301020

Grade Level: 9-10

Course Credit: 1.0

Prerequisites: Recommended STAAR Mastery on 8<sup>th</sup> Grade Science Exam

Students engage in real-world data analysis and problem solving that spark critical thinking about our living world. As students engage in grade-level content, they utilize the kind of scientific reasoning skills needed to analyze the natural world and to succeed in future science and social science courses in high school and college. This course requires a parent/student/teacher contract.

## **AP Biology**

Course #: A3010200

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Recommended Pre-AP Biology, Pre-AP Chemistry

This course is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore topics like evolution, energetics, information storage and transfer, and system interactions. Students are expected to take the AP exam. This course requires a parent/student/teacher contract. Additional fees may apply.

## **Dual Credit Biology (Lone Star College)**

Course #: 13037200

Grade Level: 11-12

Course Credit: 1.0

Dual Credit: 4 Hours

Prerequisites: IHE requirements

A contemporary course including applications of the scientific method, cellular and molecular biology, biochemistry, classical and human genetics, virology and mechanisms of evolution. This course provides dual credit through Lone Star College and all students are required to adhere to the Lone Star College policies, grading procedures and fees. Refer to Lone Star College for more details. Additional fees may apply.

## **Chemistry**

Course #: 03040000

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: Biology, Algebra 1

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



### **Pre-AP Chemistry**

Course #: Q0304000

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: Recommended Pre-AP Biology, Pre-AP Algebra 1, Mastery on Biology EOC test

Students develop a deep conceptual understanding of matter and energy at the molecular level as they learn to explain their macroscopic observations using particulate-level reasoning. As students engage in grade-level content, they utilize scientific reasoning skills needed to analyze the natural world and to succeed in future science and social science courses in high school and college. This course requires a parent/student/teacher contract.

### **Physics**

Course #: 03050000

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Biology, Chemistry, Geometry, Algebra 2 or concurrent enrollment

Students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include laws of motion, changes within physical systems and conservation of energy and momentum, forces, characteristics and behavior of waves, and electricity and magnetism. Students will apply conceptual knowledge and collaborative skills to experimental design, implementation, and interpretation.

### **Pre-AP Physics**

Course #: Q0305000

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Recommended Pre-AP Biology, Pre-AP Chemistry, Pre-AP Geometry, Pre-AP Algebra 2, and Pre-AP Calculus or concurrent enrollment

This course is intended to prepare students interested in fields of study that could require them to take engineering-level physics in college. Such students are expected to have strong skills in algebraic and trigonometric problem solving. Like the other Physics courses, it introduces the fundamental principles of physics and how they apply to our daily lives. Topics covered include motion, forces, energy, waves, optics, electricity, and magnetism - and may also include thermodynamics, modern physics and astrophysics. Theory will be understood through mathematical calculations and problem solving as well as the development of conceptual understanding. Mathematical problem-solving utilizing second-year algebra, geometry, and trigonometry will be extensively applied throughout the course. Independent projects will be required for this course. This course requires a parent/student/teacher contract.

### **Environmental Systems**

Course #: 03020000

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: Biology; recommended Integrated Physics and Chemistry, Chemistry, or concurrent enrollment in either course.

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

### **Principles of Technology**

Course #: 1336100

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Biology, Chemistry

Students will conduct laboratory and field investigations, use scientific practices 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.



### **Astronomy**

Course #: 03060100

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Three (3) years of science credits

Students focus on patterns, processes, and relationships among astronomical objects in our universe. Students acquire basic astronomical knowledge and supporting evidence about Sun-Earth-Moon relationships, the solar system, the Milky Way, the size and scale of the universe, and the benefits and limitations of exploration. Students conduct laboratory and field investigations to support their developing conceptual framework of our place in space and time.

### **Pre-AP Anatomy & Physiology**

Course #: Q1302060

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Three (3) years of science credits

This course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. This course requires a parent/student/teacher contract.

### **Food Science**

Course #: 13023000

Grade Level: 12

Course Credit: 2.0

Prerequisites: One (1) credit in Biology, one (1) credit in Chemistry, and at least one (1) credit in a Level 2 or higher course from the Hospitality and Tourism career cluster

Students examine the nature and properties of foods, food microbiology, and the principles of science in food production, processing, preparation, and preservation; use scientific methods to conduct laboratory and field investigations; and make informed decisions using critical thinking and scientific problem solving. This course provides students a foundation for further study that leads to occupations in food and beverage services; the health sciences; agriculture, food, and natural resources; and human services. This course is part of a Career & Technical Education Program of Study.

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

Course #: 13037300

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Algebra I, Geometry, and at least one (1) credit in a Level 2 or higher course

This course is the creative process of solving problems by identifying needs and 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. The design process and problem solving are inherent to all engineering disciplines. This course is part of a Career & Technical Education Program of Study.

### **Forensic Science**

Course #: 13029500

Grade Level: 12

Course Credit: 1.0

Prerequisites: One (1) credit in Biology, one (1) credit in Chemistry, Integrated Chemistry and Physics, or Physics

This course is a survey course that introduces students to the application of science to law. Students learn terminology and procedures related to the collection and examination of physical evidence using scientific processes performed in a field or laboratory setting. Students also learn the history and the legal aspects of forensic science. This course is part of a Career & Technical Education Program of Study.



# Social Studies

## **World Geography**

Course #: 03320100

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

Students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present with emphasis on contemporary issues. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major landforms, climates, and ecosystems and their interrelationships; the political, economic, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of the world population; relationships among people, places, and environments; and the concept of region.

## **Pre-AP World Geography**

Course #: Q3320100

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

Geography, at its core, is the study of place, space, and scale. Understanding basic geographic principles enriches understanding of historical events by connecting spatial relationships to politics, economics, and culture. Students are introduced to principles of geography including the concepts of regionalization, spatial reorganization, and human adaptation to physical environments. Students will strengthen their skills in examining maps and geographic data, identifying trends and corroborating evidence, and incorporating evidence in writing. This course requires a parent/student/teacher contract.

## **World History**

Course #: 03340400

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: None

The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilization as well as in civilizations in other parts of the world. Students evaluate the causes and effects of political and economic imperialism and of major political revolutions since the 17th century. Students examine the impact of geographic factors on major historic events and identify the historic origins of contemporary economic systems.

## **AP World History**

Course #: A3370100

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Recommended Pre-AP World History

This course is an introductory college-level modern world history course. Students cultivate their understanding of world history from c. 1200 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. Students are expected to take the AP exam. This course requires a parent/student/teacher contract. Additional fees may apply.

## **US History**

Course #: 03340100

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: World Geography, World History

This course is based on the founding documents of the U.S. government, which provide a framework for its heritage. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies, and reform movements, including civil rights. Students examine the impact of geographic factors on major events and eras and analyze their causes and effects. Students examine the impact of constitutional issues on American society, evaluate the dynamic relationship of the three branches of the federal government, and analyze efforts to expand the democratic process. Students describe the relationship between the arts and popular culture and the times during which they were created. Students analyze the impact of technological innovations on American life.



### **AP US History**

Course #: A3340100

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Recommended Pre-AP World Geography, Pre-AP World History

This course is an introductory college-level U.S. history course. Students cultivate their understanding of U.S. history from c. 1491 CE to the present through analyzing historical sources and learning to make connections and craft historical arguments as they explore concepts like American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional culture; and social structures. Students are expected to take the AP exam. This course requires a parent/student/teacher contract. Additional fees may apply.

### **US Government**

Course #: 13330100

Grade Level: 12

Course Credit: 0.5

Prerequisites: None

This course focuses on the principles and beliefs upon which the United States was founded and, on the structure, functions, and powers of government at the national, state, and local levels. This course is the culmination of the civic and governmental content and concepts studied from kindergarten through required secondary courses. Students learn major political ideas and forms of government in history. A significant focus of the course is on the U.S. Constitution, its underlying principles and ideas, and the form of government it created. Students analyze major concepts of republicanism, federalism, checks and balances, separation of powers, popular sovereignty, and individual rights and compare the U.S. system of government with other political systems.

### **AP US Government and Politics**

Course #: A3330100

Grade Level: 12

Course Credit: 0.5

Prerequisites: Recommended AP US History

This course is an introductory college-level course in U.S. government and politics. Students cultivate their understanding of U.S. government and politics through analysis of data and text-based sources as they explore topics like constitutionalism, liberty and order, civic participation in a representative democracy, competing policy-making interests, and methods of political analysis. Students are expected to take the AP exam. This course requires a parent/student/teacher contract. Additional fees may apply.

### **Dual Credit Government (Lone Star College)**

Course #: 03330100

Grade Level: 12

Course Credit: 0.5

Dual Credit: 3 Hours

Prerequisites: World Geography, World History, US History

This is a fully online course. Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights. This course provides dual credit through Lone Star College and all students are required to adhere to the Lone Star College policies, grading procedures and fees. Refer to Lone Star College for more details. Additional fees may apply.

\*If taken online in the spring semester, this course will not count towards GPA/ranking for graduation purposes due to Lone Star College Academic Calendar. \*

### **UT OnRamps US History (University of Texas Dual Enrollment)**

Course #: D3340100

Grade Level: 12

Course Credit: 0.5

Dual Enrollment: 3 Hours per Semester

Prerequisites: IHE requirements

OnRamps is a dual enrollment partnership with the University of Texas at Austin that provides students the opportunity to attempt college-level work. This course is the first semester of US History and is the study of the History of the United States from 1492-1865. Students will experience the curricular expectations, writing requirements and the study of American history with the same coursework as students enrolled at UT Austin but with the course support of the HISD instructor. Students must demonstrate their ability to do college level coursework to earn college credit each semester. Additional fees may apply.



### **Economics with Emphasis of Free Enterprise**

Course #: 03310300

Grade Level: 12

Course Credit: 0.5

Prerequisites: None

This course focuses on the basic principles concerning production, consumption, and distribution of goods and services (the problem of scarcity) in the United States and a comparison with those in other countries around the world. Students analyze the interaction of supply, demand, and price. Students will investigate the concepts of specialization and international trade, economic growth, key economic measurements, and monetary and fiscal policy. Students will study the roles of the Federal Reserve System and other financial institutions, government, and businesses in a free enterprise system. Types of business ownership and market structures are discussed.

### **Dual Credit Macroeconomics (Lone Star College)**

Course #: 03310300

Grade Level: 12

Course Credit: 0.5

Dual Credit: 3 Hours

Prerequisites: World Geography, World History, US History

This is a fully online course. An analysis of the economy as a whole including measurement and determination of Aggregate Demand and Aggregate Supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, and fiscal policy and monetary policy. This course provides dual credit through Lone Star College and all students are required to adhere to the Lone Star College policies, grading procedures and fees. Refer to Lone Star College for more details. Additional fees may apply.

\*If taken online in the spring semester, this course will not count towards GPA/ranking for graduation purposes due to Lone Star College Academic Calendar. \*

### **AP Macroeconomics**

Course #: A3310200

Grade Level: 12

Course Credit: 0.5

Prerequisites: World Geography, World History, US History

Recommended: Pre-Calculus

Study begins with fundamental economic concepts such as scarcity, opportunity costs, production possibilities, specialization, comparative advantage, demand, supply, and price determination. Major topics include measurement of economic performance, national income and price determination, fiscal and monetary policy, and international economics and growth. Students are expected to take the AP exam. This course requires a parent/student/teacher contract. Additional fees may apply.

### **Dual Credit Psychology (Lone Star College)**

Course #: D0335010

Grade Level: 12

Course Credit: 0.5

Dual Credit: 3 Hours

Prerequisites: None

This is a fully online course. This course is a survey of the essential subject areas, major theories and approaches to the scientific study of behavior and mental processes. This course provides dual credit through Lone Star College and all students are required to adhere to the Lone Star College policies, grading procedures and fees. Refer to Lone Star College for more details. Additional fees may apply.

\*If taken online in the spring semester, this course will not count towards GPA/ranking for graduation purposes due to Lone Star College Academic Calendar. \*

### **Dual Credit Sociology (Lone Star College)**

Course #: D0337010

Grade Level: 12

Course Credit: 0.5

Dual Credit: 3 Hours

Prerequisites: None

This is a fully online course. This course is an introduction to the basic elements of society. In looking at human behavior, this course includes an introduction to dynamics of society, culture, social groups, social institutions, socialization, social processes, and social structure. This course provides dual credit through Lone Star College and all students are required to adhere to the Lone Star College policies, grading procedures and fees. Refer to Lone Star College for more details. Additional fees may apply.

\*If taken online in the spring semester, this course will not count towards GPA/ranking for graduation purposes due to Lone Star College Academic Calendar. \*



### **Personal Financial Literacy (Social Studies)**

Course #: 13380082

Grade Level: 10-12

Course Credit: 0.5

Prerequisites: None

This course will teach students to apply critical-thinking and problem-solving skills to analyze decisions involving earning and spending, saving and investing, credit and borrowing, insuring and protecting, and college and postsecondary education and training. There are many references to conducting a cost-benefit analysis for spending and investing decisions. Students evaluate the necessity of the purchase, the quality or value of the purchase or investment compared to other alternatives, and the total cost of acquisition, particularly in the context of financing options. Students also understand the power of both compound growth on investments and compound interest on debt and how these concepts affect the ability to build wealth over time.





# Physical Education and Athletics

## Year 1

Prerequisite: Coach approval

Grade Level: 9-12

Course Credit: 1.0

### Baseball Year 1

Course #: 1550010

### Basketball: Boys Year 1

Course #: 1550020

### Basketball: Girls Year 1

Course #: 1550030

### Cross Country Year 1

Course #: 1550040

### Golf Year 1

Course #: 1550060

### Soccer: Boys Year 1

Course #: 1550070

### Soccer: Girls Year 1

Course #: 1550080

### Softball Year 1

Course #: 1550090

### Swimming Year 1

Course #: 1550110

### Tennis Beginning Year 1

Course #: 1550120

### Volleyball Year 1

Course #: 1550130

### Wrestling Year 1

Course #: 1551160

## Year 2

Prerequisite: Coach approval; completion of Year 1 in corresponding sport.

Grade Level: 10-12

Course Credit: 1.0

### Baseball Year 2

Course #: 1550420

### Basketball: Boys Year 2

Course #: 1550430

### Basketball: Girls Year 2

Course #: 1550440

### Cross Country Year 2

Course #: 1550330

### Golf Year 2

Course #: 1550350

### Soccer: Boys Year 2

Course #: 1550360

### Soccer: Girls Year 2

Course #: 1550370

### Softball Year 2

Course #: 1550380

### Swimming Year 2

Course #: 1550390

### Tennis Year 2

Course #: 1550450

### Volleyball Year 2

Course #: 1550460

### Wrestling Year 2

Course #: 1551180

## Year 3

Prerequisite: Coach approval; completion of Year 1 & Year 2 in corresponding sport.

Grade Level: 11-12

Course Credit: 1.0

### Baseball Year 3

Course #: 1550650

### Basketball: Boys Year 3

Course #: 1550660

### Basketball: Girls Year 3

Course #: 1550670

### Cross Country Year 3

Course #: 1550680

### Golf Year 3

Course #: 1550720

### Soccer: Boys Year 3

Course #: 1550730

### Soccer: Girls Year 3

Course #: 1550740

### Softball Year 3

Course #: 1550750

### Swimming Year 3

Course #: 1550760

### Tennis Year 3

Course #: 1550770

### Volleyball Year 3

Course #: 1550780

### Wrestling Year 4

Course #: 1551200

## Year 4

Prerequisite: Coach approval; completion of Year 1, Year 2 & Year 3 in corresponding sport.

Grade Level: 12

Course Credit: 1.0

### Baseball Year 4

Course #: 1550910

### Basketball: Boys Year 4

Course #: 1550920

### Basketball: Girls Year 4

Course #: 1550930

### Cross Country Year 4

Course #: 1550940

### Golf Year 4

Course #: 1550960

### Soccer: Boys Year 4

Course #: 1550970

### Soccer: Girls Year 4

Course #: 1550980

### Softball Year 4

Course #: 1550990

### Swimming Year 4

Course #: 1551020

### Tennis Year 4

Course #: 1551030

### Volleyball Year 4

Course #: 1551040

### Wrestling Year 4

Course #: 1551220



### **Football**

Freshman	Course #1556110	Grade Level: 9	Course Credit: 1.0
JV/V Year 1	Course #1557110	Grade Level: 9-12	Course Credit: 1.0
JV/V Year 2	Course #1557210	Grade Level: 10-12	Course Credit: 1.0
JV/V Year 3	Course #1557310	Grade Level: 11-12	Course Credit: 1.0
JV/V Year 4	Course #1557410	Grade Level: 12	Course Credit: 1.0
Prerequisite: Coach approval			

### **Team Sports**

Team Sports 1	Course #: 1553100	Grade Level: 9-12	Course Credit: 1.0
Team Sports 2	Course #: 1553200	Grade Level: 10-12	Course Credit: 1.0
Team Sports 3	Course #: PES00002	Grade Level: 11-12	Course Credit: 1.0
Team Sports 4	Course #: PES00003	Grade Level: 12	Course Credit: 1.0
Prerequisites: None			

This course puts emphasis on team sports. Sports offered include volleyball, basketball and softball.

### **Athletic Training**

Athletic Training Year 1	Course #: 1555110	Grade Level: 9-12	Course Credit: 1.0
Athletic Training Year 2	Course #: 1555210	Grade Level: 10-12	Course Credit: 1.0
Athletic Training Year 3	Course #: 1555310	Grade Level: 11-12	Course Credit: 1.0
Athletic Training Year 4	Course #: 1555410	Grade Level: 12	Course Credit: 1.0
Prerequisites: Teacher Approval			

This is a sports medicine course designed to enhance the curriculum for students interested in a medical career path. Students may receive physical education or elective credit. Students are required to put in extra hours after school.

### **Cheer Aerobics**

Cheer Aerobics Year 1	Course #: 1559110	Grade Level: 9-12	Course Credit: 1.0
Cheer Aerobics Year 2	Course #: 1559120	Grade Level: 10-12	Course Credit: 1.0
Cheer Aerobics Year 3	Course #: 1559310	Grade Level: 11-12	Course Credit: 1.0
Cheer Aerobics Year 4	Course #: 1559410	Grade Level: 12	Course Credit: 1.0
Prerequisites: Tryouts/Coach Approval			

Students participate in a variety of aerobic activities that promote physical activity and health throughout their lifetime. Participants are expected to perform at various athletic and other events throughout the year. Extensive after school and weekend participation is required. Notes: After one (1) state credit of cheerleading is earned, all remaining credits earned are local credits and will not apply toward graduation requirements.

### **Drill Team**

Drill Team 1	Course #: PE000014	Grade Level: 9-12	Course Credit: 1.0
Drill Team 2	Course #: 03833400	Grade Level: 10-12	Course Credit: 1.0
Drill Team 3	Course #: 03833500	Grade Level: 11-12	Course Credit: 1.0
Drill Team 4	Course #: 03833600	Grade Level: 12	Course Credit: 1.0
Prerequisites: Director Approval			

Dance/Drill Team is a performance organization. This course stresses all aspects of dance. Students must have met eligibility requirements and selection is determined by tryouts and director approval.

### **Drill Team/Dance**

Course #: 1558110	Grade Level: 9-12	Course Credit: 1.0
Prerequisites: Director Approval		

Dance/Drill Team is a performance organization. This course stresses all aspects of dance. Students must have met eligibility requirements and selection is determined by tryouts and director approval.



## **Lifetime Fitness and Wellness**

Course #: PES00051

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

This course offers current approaches for the foundation of personal fitness, physical literacy, lifetime wellness, and healthy living. Students will apply the knowledge and skills to demonstrate mastery of the concepts needed to achieve lifetime wellness. Students will participate in a variety of physical activities for attaining personal fitness and lifetime wellness.



# *Languages other than English (LOTE)*

## **French 1**

Course #: 03410100

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

This course is an introduction to the French language and French-speaking people with emphasis on speaking and listening skills and the beginning of reading and writing skills.

## **Pre-AP French 1**

Course #: Q0341010

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: none

Pre-AP courses allow students to slow down and focus on the most essential and relevant concepts and skills in the content area. This course is an introduction to the French language and French-speaking people with emphasis on speaking and listening skills and the beginning of reading and writing skills, following a Pre-AP structure in preparation for AP coursework in the future. This course requires a Student/Parent/Teacher contract.

## **French 2**

Course #: 03410200

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: French 1

This course is a review and further development of basic skills acquired in French I, including culture and is a continuation of development of day-to-day communication skills.

## **Pre-AP French 2**

Course #: Q0341020

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: French 1

This advanced course is designed for students who desire to continue beyond the second year of French. The course consists of an intensive review with emphasis on speaking and listening skills with further development in reading, writing and culture. Emphasis is placed on conversational skills and more advanced grammar and reading assignments throughout the year. Students should expect daily homework along with independent practice and projects. This course is designed to prepare students for Pre-AP French 3. This course requires a Student/Parent/Teacher contract.

## **French 3**

Course #: 03410300

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: French 1, French 2

This course is a review and further development of basic skills acquired in French II, including culture and is a continuation of development of day-to-day communication skills.

## **Pre-AP French 3**

Course #: Q0341030

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Recommended Pre-AP French 2

This advanced class is designed for students who plan on taking AP French 4. Course is a thorough review of grammar with longer, more difficult reading selections and increased awareness of French civilization and culture. The course provides continuous opportunities to improve speaking and listening skills. Class will be conducted mainly in French. This course requires a Student/Parent/Teacher contract.



### **AP French 4 Language and Culture**

Course #: A3410100

Grade Level: 12

Course Credit: 1.0

Prerequisites: Recommended Pre-AP French 3

This course is equivalent to an intermediate level college course in French. Students cultivate their understanding of French language and culture by applying interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and community, personal and public identity, beauty and aesthetics, science and technology, contemporary life, and global challenges. Students are expected to take the AP exam. This course requires a Student/Parent/Teacher contract. Additional fees may apply.

### **German 1**

Course #: 03420100

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

This course is an introduction to the German language and German-speaking people with emphasis on speaking and listening skills and the beginning of reading and writing skills.

### **Pre-AP German 1**

Course #: Q0342010

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: none

Pre-AP courses allow students to slow down and focus on the most essential and relevant concepts and skills in the content area. This course is an introduction to the German language and German-speaking people with emphasis on speaking and listening skills and the beginning of reading and writing skills, following a Pre-AP structure in preparation for AP coursework in the future. This course requires a Student/Parent/Teacher contract.

### **German 2**

Course #: 03420200

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: German 1

This course is a review and further development of basic skills acquired in German I, including culture and is a continuation of development of day-to-day communication skills.

### **Pre-AP German 2**

Course #: Q0342020

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: Recommended Pre-AP German 1

This advanced course is designed for students who desire to continue beyond the second year of German. The course consists of an intensive review with emphasis on speaking and listening skills with further development in reading, writing and culture. Emphasis is placed on conversational skills and more advanced grammar and reading assignments throughout the year. Students are expected to use the target language as much as possible in the classroom. Students should expect daily homework along with independent practice and projects. This course is designed to prepare students for Pre-AP German 3. This course requires a Student/Parent/Teacher contract.

### **Pre-AP German 3**

Course #: Q0342030

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Recommended Pre-AP German 2

This advanced class is designed for students who plan on taking AP German 4. Course is a thorough review of grammar with longer, more difficult reading selections and increased awareness of German civilization and culture. The course provides continuous opportunities to improve speaking and listening skills. Class will be conducted mainly in German. This course requires a Student/Parent/Teacher contract.



### **AP German 4**

Course #: A3420100

Grade Level: 12

Course Credit: 1.0

Prerequisites: Recommended Pre-AP German 3

This course is equivalent to an intermediate level college course in German. Students cultivate their understanding of German language and culture by applying interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and communities, personal and public identities, beauty and aesthetics, science and technology, contemporary life, and global challenges. Students are expected to take the AP exam. This course has a required summer reading assignment. Additional fees may apply.

### **Spanish 1**

Course #: 03440100

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

This course is an introduction to the Spanish language and Spanish-speaking people with emphasis on speaking and listening skills and the beginning of reading and writing skills.

### **Pre-AP Spanish 1**

Course #: Q0344010

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

Pre-AP courses allow students to slow down and focus on the most essential and relevant concepts and skills in the content area. This course is an introduction to the Spanish language and Spanish-speaking people with emphasis on speaking and listening skills and the beginning of reading and writing skills, following a Pre-AP structure in preparation for AP coursework in the future. This course requires a Student/Parent/Teacher contract.

### **Spanish for Natural Speakers 1**

Course #: 03440110

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: Demonstration of moderate to advanced proficiency on the Native Speaker's Exam

This course is designed to meet the special needs of native Spanish speakers and to improve their knowledge of the grammar of written and spoken Spanish and to expand their awareness of the literature, poetry, art and culture of the Hispanic world.

### **Spanish 2**

Course #: 03440200

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: Spanish 1

This course is a review and further development of basic skills acquired in Spanish I, including culture and is a continuation of development of day-to-day communication skills.

### **Pre-AP Spanish 2**

Course #: Q0344020

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: Recommended Pre-AP Spanish 1

This advanced course is designed for students who desire to continue beyond the second year of Spanish. Emphasis is placed on conversational skills and more advanced grammar and reading assignments throughout the year. Students are expected to use the target language as much as possible in the classroom. Students should expect daily homework along with independent practice and projects. This course is designed to prepare students for Pre-AP Spanish 3. This course requires a Student/Parent/Teacher contract.

### **Spanish 3**

Course #: 03440300

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: Spanish 2

This course is a review and further development of basic skills acquired in Spanish 2, including culture and is a continuation of development of day-to-day communication skills.



### **Pre-AP Spanish 3**

Course #: Q0344030

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: Recommended Pre-AP Spanish 2

This advanced class is designed for students who plan on taking AP Spanish 4. Course is a thorough review of grammar with longer, more difficult reading selections and increased awareness of Spanish civilization and culture. The course provides continuous opportunities to improve speaking and listening skills. Class will be conducted mainly in Spanish. This course requires a Student/Parent/Teacher contract.

### **AP Spanish 4 Language and Culture**

Course #: A3440100

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Recommended Pre-AP Spanish 3

This course is equivalent to an intermediate level college course in Spanish. Students cultivate their understanding of Spanish language and culture by applying interpersonal, interpretive, and presentational modes of communication in real-life situations as they explore concepts related to family and communities, personal and public identities, beauty and aesthetics, science and technology, contemporary life, and global challenges. This course requires a Student/Parent/Teacher contract.

### **AP Spanish 5 Literature and Culture**

Course #: A3440200

Grade Level: 12

Course Credit: 1.0

Prerequisites: Recommended AP Spanish 4

This course is equivalent to a college level introductory survey course of literature written in Spanish. Students continue to develop their interpretive, interpersonal, and presentational skills in Spanish language as well as critical reading and analytical writing as they explore short stories, novels, plays, essays, and poetry from Spain, Latin America, and U.S. Hispanic authors along with other non-required texts. Students are expected to take the AP exam. This course requires a Student/Parent/Teacher contract. Additional fees may apply.





# Fine Arts

## Dance

Dance 1	Course #: 03830100	Grade Level: 9-12	Course Credit: 1.0
Dance 2	Course #: 03830200	Grade Level: 10-12	Course Credit: 1.0
Dance 3	Course #: 03830300	Grade Level: 11-12	Course Credit: 1.0
Dance 4	Course #: 03830400	Grade Level: 12	Course Credit: 1.0

Prerequisites: Director Approval

This course stresses all aspects of dance. Students must have met eligibility requirements and selection is determined by tryouts and director approval.

## Art 1

Course #: 03500100	Grade Level: 9-12	Course Credit: 1.0
Prerequisites: None	Course Fee: \$20	

This course is an introduction to basic art techniques and composition using the principles and elements of design. This course includes work in the areas of design, drawing, painting, printmaking, sculpture and ceramics with an introduction to vocabulary and art history.

## Art 2 - Drawing

Course #: 03500500	Grade Level: 10-12	Course Credit: 1.0
Prerequisites: Art 1	Course Fee: \$20	

This course is an introduction to various drawing techniques and media with emphasis on black and white media such as charcoal, ink and pencil.

## Art 2 - Painting

Course #: 03500600	Grade Level: 10-12	Course Credit: 1.0
Prerequisites: Art 1	Course Fee: \$20	

This course introduces students to various painting techniques using tempera, watercolor, acrylic, pastels and paint sticks. Vocabulary, history of painting and analyzing artwork will be stressed. This class will focus on murals.

## Art 2 - Ceramics

Course #: 03500900	Grade Level: 10-12	Course Credit: 1.0
Prerequisites: Art 1	Course Fee: \$20	

This course will focus on the development of hand-building techniques through a variety of projects, both functional and sculptural. Vocabulary, cultural history of ceramics and analyzing artwork will be stressed.

## Art 3 - Drawing

Course #: 03501300	Grade Level: 11-12	Course Credit: 1.0
Prerequisites: Art 2 – Drawing	Course Fee: \$20	

This course is a continuation of techniques used in Art 2 with more emphasis on color and mixed media. Portfolio preparation is emphasized.

## Art 3 - Painting

Course #: 03501400	Grade Level: 11-12	Course Credit: 1.0
Prerequisites: Art 2 – Painting	Course Fee: \$20	

This course is a continuation of various techniques and media introduced in Painting 2 and serves as an introduction to oil painting and work with mixed media. This class will focus on murals.



### **Art 3 - Ceramics**

Course #: 03501800

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Art 2 – Ceramics

Course Fee: \$20

This course is a continuation of work with hand-building techniques and an introduction of throwing on the wheel.

### **Art 4 - Drawing**

Course #: 03502300

Grade Level: 12

Course Credit: 1.0

Prerequisites: Art 3 – Drawing

Course Fee: \$20

This course offers a continuation of techniques used in Art 3 with emphasis on color and mixed media. Portfolio preparation is stressed. Requires \$20.00 art fee.

### **Art 4 - Ceramics**

Course #: 03502700

Grade Level: 12

Course Credit: 1.0

Prerequisites: Art 3 – Ceramics

Course Fee: \$20

This course is a continuation of work with hand-building techniques and an introduction of throwing on the wheel.

### **AP Art 2-D Design Portfolio**

Course #: A3500400

Grade Level: 12

Course Credit: 1.0

Prerequisites: Art 2

Course Fee: \$20

This program offers the highly motivated student advanced work and experience in drawing, 2-D design and 3-D design to prepare one or more portfolios for AP credit. This course may be taken in conjunction with level 3 and 4 Art courses. Students are expected to take the AP exam. This course requires a Student/Parent/Teacher contract. Additional fees may apply.

### **AP Art 3-D Design Portfolio**

Course #: A3500500

Grade Level: 12

Course Credit: 1.0

Prerequisites: Art 2

This program offers the highly motivated student advanced work and experience in drawing, 2-D design and 3-D design to prepare one or more portfolios for AP credit. This course may be taken in conjunction with level 3 and 4 Art courses. Students are expected to take the AP exam. This course requires a Student/Parent/Teacher contract. Additional fees may apply.

### **Music Appreciation**

Course #: 03155600

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: None

This course is for students who like to listen to music and want to learn about a variety of musical styles including Popular Music, Country, Jazz, Classical and World Music. Students will be engaged in both classroom learning and a performance lab where they will learn to sing, play guitar and other instruments, and compose original music. No musical experience is necessary.

### **Dual Credit Music Appreciation (Sam Houston State University)**

Course #: 03155600

Grade Level: 12

Course Credit: 0.5

Dual Credit: 3 Hours

Prerequisites: None

This is a fully online course. Students engage in a general survey of music literature designed for the non-music major. Representative composers and their works are studied through recordings, lectures, reports, and live performances. This course provides dual credit through Sam Houston State University and all students are required to adhere to SHSU policies, grading procedures and fees. Refer to SHSU for more details. Additional fees may apply.



### **Theater Arts**

Theater Arts 1	Course #: 03250100	Grade Level: 9-12	Course Credit: 1.0
Theater Arts 2	Course #: 03250200	Grade Level: 10-12	Course Credit: 1.0
Theater Arts 3	Course #: 03250300	Grade Level: 11-12	Course Credit: 1.0
Theater Arts 4	Course #: 03250400	Grade Level: 12	Course Credit: 1.0

Prerequisites: None for year 1; completion of previous courses are student progresses

This course is an introduction to the theatre. It includes expressive use of the voice and body, acting concepts and skills, theatre production and appreciation of live theatrical events. Theatre Arts 2-4 are advanced courses in theatre that include advanced classical and contemporary acting, specialized theatre production (musical, theatre for children, television) and appreciation of live theatrical events.

### **Technical Theater**

Technical Theater 1	Course #: 03250500	Grade Level: 9-12	Course Credit: 1.0
Technical Theater 2	Course #: 03250600	Grade Level: 10-12	Course Credit: 1.0
Technical Theater 3	Course #: 03251100	Grade Level: 11-12	Course Credit: 1.0
Technical Theater 4	Course #: 03251200	Grade Level: 12	Course Credit: 1.0

Prerequisites: None for year 1; completion of previous courses are student progresses

This course offers the student practical hands-on experience in stagecraft through the preparation of public performances of plays. The course includes scenery construction, scenic painting, stage lighting, sound, costume, makeup, publicity and appreciation of live theatrical events.

### **Theater Production**

Theater Production 1	Course #: 03250700	Grade Level: 9-12	Course Credit: 1.0
Theater Production 2	Course #: 03250800	Grade Level: 10-12	Course Credit: 1.0
Theater Production 3	Course #: 03250900	Grade Level: 11-12	Course Credit: 1.0
Theater Production 4	Course #: 03251000	Grade Level: 12	Course Credit: 1.0

Prerequisites: None for year 1; completion of previous courses are student progresses

This course offers practical hands-on experience in acting and stagecraft through the preparation and public performance of plays. The course includes acting, concepts and skills, theater production concepts and skills, and appreciation of live theatrical events.

### **Chorale**

Chorale 1	Course #: 1663110	Grade Level: 9-12	Course Credit: 1.0
Chorale 2	Course #: 1663210	Grade Level: 10-12	Course Credit: 1.0
Chorale 3	Course #: 1663310	Grade Level: 11-12	Course Credit: 1.0
Chorale 4	Course #: 1663410	Grade Level: 12	Course Credit: 1.0

Prerequisites: Audition, Director Approval

This is a performance-based course where students build their musical skills and vocal technique throughout the year. The Chamber Ensemble will compete in UIL and TMEA sponsored events throughout the year as well as school related and public performances. After school rehearsals and performances are required.

### **Concert Choir**

Concert Choir 1	Course #: 1663130	Grade Level: 9-12	Course Credit: 1.0
Concert Choir 2	Course #: 1663230	Grade Level: 10-12	Course Credit: 1.0
Concert Choir 3	Course #: 1663330	Grade Level: 11-12	Course Credit: 1.0
Concert Choir 4	Course #: 1663430	Grade Level: 12	Course Credit: 1.0

Prerequisites: None for year 1; completion of previous courses are student progresses

This is an introductory course designed for students with no prior vocal music instruction. Students will build vocal music skills and vocal technique throughout the year and throughout the progression of courses over their high school career.



### **Select Women's Choir**

Select Women's Choir 1	Course #: 1663150	Grade Level: 9-12	Course Credit: 1.0
Select Women's Choir 2	Course #: 1663240	Grade Level: 10-12	Course Credit: 1.0
Select Women's Choir 3	Course #: 1663340	Grade Level: 11-12	Course Credit: 1.0
Select Women's Choir 4	Course #: 1663440	Grade Level: 12	Course Credit: 1.0

Prerequisites: Audition, Director Approval

This is a performance-based course where female students build their musical skills and vocal technique throughout the year. The Treble Choir will compete in UIL and TMEA sponsored events throughout the year as well as school related and public performances. After school rehearsals and performances are required.

### **Applied Percussion**

Applied Percussion 1	Course #: 1664110	Grade Level: 9-12	Course Credit: 1.0
Applied Percussion 2	Course #: 1664210	Grade Level: 10-12	Course Credit: 1.0
Applied Percussion 3	Course #: 1664310	Grade Level: 11-12	Course Credit: 1.0
Applied Percussion 4	Course #: 1664410	Grade Level: 12	Course Credit: 1.0

Prerequisites: Prior Band Experience, Audition, Director Approval

This course is a performance-based course where skills and styles of concert band, contemporary percussion literature in both the indoor and outdoor drumline and percussion ensemble genres will be fully developed throughout the year. This course is combined with the Wind Symphony, Wind Ensemble, Symphonic Band and Concert Band during the fall to make up the Huntsville Hornet Military Marching Band. The bands will compete in UIL and TMEA sponsored events throughout the year as well as school-related and public performances. Students will compete and/or perform in various events throughout the year. After school rehearsals and performances are required.

### **Concert March Band**

Concert March Band 1	Course #: 03150100	Grade Level: 9-12	Course Credit: 1.0
Concert March Band 2	Course #: 03150200	Grade Level: 10-12	Course Credit: 1.0
Concert March Band 3	Course #: 03150300	Grade Level: 11-12	Course Credit: 1.0
Concert March Band 4	Course #: 03150400	Grade Level: 12	Course Credit: 1.0

Prerequisites: Prior Band Experience, Audition, Director Approval

This course is a performance-based course where skills and styles of concert band playing will be fully developed throughout the year. The band is combined with the Wind Symphony, Wind Ensemble and Symphonic Band during the fall to make up the Huntsville Hornet Military Marching Band. The band will compete in UIL and TMEA sponsored events throughout the year as well as school-related and public performances. Students will compete and/or perform in various events throughout the year. After school rehearsals and performances are required.

### **Symphonic Band**

Symphonic Band 1	Course #: 1664140	Grade Level: 9-12	Course Credit: 1.0
Symphonic Band 2	Course #: 1664240	Grade Level: 10-12	Course Credit: 1.0
Symphonic Band 3	Course #: 1664240	Grade Level: 11-12	Course Credit: 1.0
Symphonic Band 4	Course #: 1664440	Grade Level: 12	Course Credit: 1.0

Prerequisites: Prior Band Experience, Audition, Director Approval

These courses are part of the overall band program at Huntsville High School and will compete and/or perform in various events throughout the year. After school rehearsals and performances are required. This course is a performance-based course where skills and styles of concert band playing will be fully developed throughout the year. The band is combined with the Wind Symphony, Wind Ensemble and Concert Band during the fall to make up the Huntsville Hornet Military Marching Band. The band will compete in UIL and TMEA sponsored events throughout the year as well as school-related and public performances. Students will compete and/or perform in various events throughout the year. After school rehearsals and performances are required.



### **Wind Ensemble**

Wind Ensemble 1	Course #: 1664150	Grade Level: 9-12	Course Credit: 1.0
Wind Ensemble 2	Course #: 1664250	Grade Level: 10-12	Course Credit: 1.0
Wind Ensemble 3	Course #: 1664350	Grade Level: 11-12	Course Credit: 1.0
Wind Ensemble 4	Course #: 1664450	Grade Level: 12	Course Credit: 1.0

Prerequisites: Prior Band Experience, Audition, Director Approval

This course is a performance-based course where skills and styles of concert band playing will be fully developed throughout the year. The band is combined with the Wind Symphony, Symphonic, and Concert Bands during the fall to make up the Huntsville Hornet Military Marching Band. The band will compete in UIL and TMEA sponsored events throughout the year as well as school-related and public performances. Students will compete and/or perform in various events throughout the year. After school rehearsals and performances are required.

### **Wind Symphony**

Wind Symphony 1	Course #: 1664160	Grade Level: 9-12	Course Credit: 1.0
Wind Symphony 2	Course #: 1664260	Grade Level: 10-12	Course Credit: 1.0
Wind Symphony 3	Course #: 1664360	Grade Level: 11-12	Course Credit: 1.0
Wind Symphony 4	Course #: 1664360	Grade Level: 12	Course Credit: 1.0

Prerequisites: Prior Band Experience, Audition, Director Approval

This course is a performance-based course where skills and styles of concert band playing will be fully developed throughout the year. The band is combined with the Wind Ensemble, Symphonic, and Concert Bands during the fall to make up the Huntsville Hornet Military Marching Band. The band will compete in UIL and TMEA sponsored events throughout the year as well as school-related and public performances. Students will compete and/or perform in various events throughout the year. After school rehearsals and performances are required.

### **Applied Winds**

Applied Winds 1	Course #: 1665110	Grade Level: 9-12	Course Credit: 1.0
Applied Winds 2	Course #: 1665210	Grade Level: 10-12	Course Credit: 1.0
Applied Winds 3	Course #: 1665310	Grade Level: 11-12	Course Credit: 1.0
Applied Winds 4	Course #: 1665410	Grade Level: 12	Course Credit: 1.0

Prerequisites: Prior Band Experience, Audition, Director Approval

These courses are designed for advanced students to work both individually and as small groups on advanced college-level music literature and technical development. It will give the opportunity to work on music for all-region, all-area, and all-state auditions, solo and ensemble competitions.

### **Intro to Jazz Band**

Intro to Jazz Band 1	Course #: 03151300	Grade Level: 9-12	Course Credit: 1.0
Intro to Jazz Band 2	Course #: 03151400	Grade Level: 10-12	Course Credit: 1.0
Intro to Jazz Band 3	Course #: 03151500	Grade Level: 11-12	Course Credit: 1.0
Intro to Jazz Band 4	Course #: 03151600	Grade Level: 12	Course Credit: 1.0

Prerequisites: Prior Band Experience, Audition, Director Approval

These courses are part of the overall band program at Huntsville High School and will compete and/or perform in various events throughout the year. After school rehearsals and performances are required. These courses are performance-based course where skills and styles of the American Jazz idiom will be taught. It is open to all students who are currently enrolled in either Wind Ensemble or Symphonic Band and who play trumpet, saxophone, trombone, and rhythm section with director approval. Concurrent enrollment in one of the four main performing bands (Wind Symphony, Wind Ensemble, Symphonic Band, or Concert Band) is required to be a member of this class.



# General Electives

## **Office Aide – 12<sup>th</sup> Grade**

Course #: 408090V

Grade Level: 12

Course Credit: 1.0

Prerequisites: Counselor approval

This course is for selected students to assist in office work. Areas of assignment include, but are not limited to, the principal's office, assistant principals' offices, attendance office, and reception area. An exemplary discipline and attendance record is required, and students may serve only one class period as a student aide. Student aides may not be on the fees and fines list at the beginning of each semester.

## **Gifted-Talented Interdisciplinary Studies Seminar**

Course #: N1290309

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Currently identified as a Gifted & Talented student

This course is based on the required Texas Performance Standards Project (TPSP) for gifted and talented (G/T) learners; it offers a non-traditional learning experience to students who can create innovative products and/or performances. Students will develop a product proposal, compile a portfolio, conduct in-depth research, be matched with a mentor from the professional community, and prepare for a public presentation of their portfolio, product, or performance at the end of the school year. An audience that includes expert(s) in the field will evaluate the product and/or performance. Students work with their mentor to create a related product with real-world application and tangible documentation. The final product will be shared with an audience outside the school setting.

## **PATH II: TEA Innovative Course**

Course Number: PATHCC2

Grade Level: 9-12

Course Credit: 1.0

Path College Career II provides students with the instructional support in all college preparatory (honor level), Advanced Placement, International Baccalaureate, and dual enrollment courses through in-class coaching. The course emphasizes the development of habits and skills essential for success in both college and the workforce. Students will explore college and career opportunities that align with their personal interests and engage in ethical decision-making related to real-world and workplace issues. Additionally, students will prepare for the PSAT, SAT, and ACT exams and scholarship opportunities. Through an immersive online learning environment, the Path elective ensures that students are not only college-eligible, but truly college ready.

## **PATH III: TEA Innovative Course**

Course Number: PATHCC2

Grade Level: 9-12

Course Credit: 1.0

Path College Career III is a course in a college and career readiness system that offers students instructional support through in-class coaching. This course emphasizes the development of critical reading and writing skills necessary for success in both first-and second-year postsecondary education and the workforce. Students refine their critical reading, writing, and research abilities across various disciplines, preparing them for the analytical demands of college and professional environments. Students will explore the financial, societal, and cultural implications of their college and career choices, while participating in ethical decision-making through group community service. The course also incorporates traditional college and career planning activities, such as comparative analysis of college entrance exams, financial aid and scholarship applications, and the navigation of the college admissions process.

## **Early Release**

Course #: 408190

Grade Level: 12

Course Credit: 0.0

Prerequisites: Classified as an 11<sup>th</sup> or 12<sup>th</sup> grader

The Early Release and Late Arrival scheduling options for seniors are privileges in which the school maintains the discretion to revoke at any time for failure to comply with any of the following expectations. Specific rules apply.

Double Early Release is dependent on students progress towards their graduation requirements, including CCMR status and transportation.



**Late Arrival**

Course #: 408191

Grade Level: 12

Course Credit: 0.0

Prerequisites: Classified as an 11<sup>th</sup> or 12<sup>th</sup> grader

The Early Release and Late Arrival scheduling options for seniors are privileges in which the school maintains the discretion to revoke at any time for failure to comply with any of the following expectations. Specific rules apply.

**Making Connections**

Making Connections 1	Course #: N1290332	Grade Level: 9-12	Course Credit: 0.5
Making Connections 2	Course #: N1290333	Grade Level: 10-12	Course Credit: 0.5
Making Connections 3	Course #: N1290334	Grade Level: 11-12	Course Credit: 0.5
Making Connections 4	Course #: N1290335	Grade Level: 12	Course Credit: 0.5
Prerequisites: None			

This course sequence serves students who have an autism spectrum disorder or a related disorder such as social (pragmatic) communication disorder which causes them to have difficulty with social skills. The courses also assist the students with developing and generalizing appropriate and beneficial social skills and in turn increases that student’s postsecondary outcome.





# Career & Technical Education (CTE)

## Agriculture, Food, and Natural Resources Career Cluster

### Agricultural Technology and Mechanical Systems Program of Study

#### Program of Study Course Sequence:

Year 1	Year 2	Year 3	Year 4	Year 5
Principles of Agriculture, Food, and Natural Resources	Agricultural Mechanics and Metal Technologies	Agricultural Structures Design and Fabrications	Agricultural Equipment Design and Fabrication	Practicum in Agriculture, Food, and Natural Resources
		Agricultural Power Systems	Practicum in Agriculture, Food, and Natural Resources	Practicum in Agriculture, Food, and Natural Resources + Extended Practicum

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

Course #: 13000200

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

This course will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations. This course enhances the agricultural comprehension of young adults. It includes agricultural career development, leadership, communications and personal finances. This course also includes an overview of soil and plants, animals, and agricultural construction.

#### Agricultural Mechanics and Metal Technologies

Course #: 13002200

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: Recommended Principles of Agriculture, Food, and Natural Resources

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. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations.

#### Agricultural Structures Design and Fabrications

Course #: 13002300

Grade Level: 11-12

Course Credit: 2.0

Prerequisites: Recommended Principles of Agriculture, Food, and Natural Resources

Students will explore career opportunities, entry requirements, and industry expectations. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication.

#### Dual Credit Agricultural Power Systems (Lone Star College)

Course #: 13002400

Grade Level: 10-12

Course Credit: 2.0

Dual Credit: 4 Hours per Semester

Prerequisites: Recommended Principles of Agriculture, Food, and Natural Resources

This course is designed to develop an understanding of power and control systems related to energy sources, small and large power systems, and agricultural machinery. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the workplace; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. This course provides dual credit through Lone Star College and all students are required to adhere to the Lone Star College policies, grading procedures and fees. Refer to Lone Star College for more details. Additional fees may apply.



### **Agricultural Equipment Design and Fabrication**

Course #: 13002350

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Recommended Agricultural Mechanics and Metal Technologies

Students will acquire knowledge and skills related to the design and fabrication of agricultural equipment.

### **Dual Credit Practicum in Agriculture, Food, and Natural Resources (Lone Star College)**

Course #: 13002500

Grade Level: 11-12

Course Credit: 2.0

Dual Credit: 4 Hours per Semester

Prerequisites: Recommended a minimum of one (1) credit from the courses in the AFNR career cluster

This advanced floral design, welding, or animal science course meets the qualifications to prepare students for the Texas State Florists Association, High School Floral Design Certification examination or allows students additional time to work on contests or competitions in welding or animal science. This course provides dual credit through Lone Star College and all students are required to adhere to the Lone Star College policies, grading procedures and fees. Refer to Lone Star College for more details. Additional fees may apply.

### **Dual Credit Practicum in Agriculture, Food, and Natural Resources + Extended Practicum (Lone Star College)**

Course #: 13002515

Grade Level: 11-12

Course Credit: 3.0

Dual Credit: 4 Hours per Semester

Prerequisites: Recommended a minimum of one (1) credit from the courses in the AFNR career cluster

This course 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. The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources Career Cluster. This course provides dual credit through Lone Star College and all students are required to adhere to the Lone Star College policies, grading procedures and fees. Refer to Lone Star College for more details. Additional fees may apply.

## **Animal Science Program of Study**

### **Program of Study Course Sequence:**

Year 1	Year 2		Year 3	Year 5
Principles of Agriculture, Food, and Natural Resources	Small Animal Management	Equine Science	Livestock Production	Advanced Animal Science
				Practicum in Agriculture, Food, and Natural Resources

### **Principles of Agriculture, Food, and Natural Resources**

Course #: 13000200

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

This course will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations. This course enhances the agricultural comprehension of young adults. It includes agricultural career development, leadership, communications and personal finances. This course also includes an overview of soil and plants, animals, and agricultural construction.

### **Small Animal Management**

Course #: 13000400

Grade Level: 9-12

Course Credit: 0.5

Prerequisites: Recommended Principles of Agriculture, Food, and Natural Resources

Students will attain knowledge and skills related to animal identification, animal behavior, anatomy, and the care and management of animals ranging from small mammals such as dogs and cats to amphibians and reptiles. This course is recommended for those with an interest in the Veterinary Science field.



### **Equine Science**

Course #: 13000500

Grade Level: 9-12

Course Credit: 0.5

Prerequisites: Recommended Principles of Agriculture, Food, and Natural Resources

Develop knowledge and skills pertaining to the selection, nutrition, reproduction, health, and management of horses. This course is recommended for those that have an interest in the Veterinary Science field.

### **Livestock Production**

Course #: 13000300

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: Recommended Principles of Agriculture, Food, and Natural Resources

Introduces the science of livestock including the anatomy, genetics, reproduction, nutrition, and diseases that can affect all livestock animals. Also includes common veterinary skills used in livestock production. This course is recommended for those that have an interest in the Veterinary Science field.

### **Advanced Animal Science**

Course #: 13000700

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: Biology and Chemistry, or Integrated Physics and Chemistry; Algebra 1 and Geometry; and either Small Animal Management, Equine Science, or Livestock Production

Students will acquire knowledge and skills related to animal systems, they will develop knowledge and skills regarding career opportunities, entry requirements and industry standards. This course earns a Science credit.

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

Course #: 13002500

Grade Level: 11-12

Course Credit: 2.0

Prerequisites: Recommended a minimum of one (1) credit from the courses in the AFNR career cluster

This advanced floral design, welding, or animal science course meets the qualifications to prepare students for the Texas State Florists Association, High School Floral Design Certification examination or allows students additional time to work on contests or competitions in welding or animal science.

## **Plant Science**

### **Program of Study Course Sequence:**

Year 1	Year 2		Year 3	Year 4	Year 5
Principles of Agriculture, Food, and Natural Resources	Landscape Design and Management	Turf Grass Management	Floral Design	Advanced Floral Design	Practicum in Agriculture, Food, and Natural Resources
			Horticulture Science	Advanced Plant and Soil Science	Practicum in Agriculture, Food, and Natural Resources

### **Principles of Agriculture, Food, and Natural Resources**

Course #: 13000200

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

This course will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations. This course enhances the agricultural comprehension of young adults. It includes agricultural career development, leadership, communications and personal finances. This course also includes an overview of soil and plants, animals, and agricultural construction.



### **Landscape Design and Management**

Course #: 13001900

Grade Level: 10-12

Course Credit: 0.5

Prerequisites: Recommended Principles of Agriculture, Food, and Natural Resources

Focuses on plant identification, selection, care, and maintenance as well as planting, planning, and developing a basic landscape. This course focuses on both residential landscaping.

### **Turf Grass Management**

Course #: 13001950

Grade Level: 10-12

Course Credit: 0.5

Prerequisites: Recommended Principles of Agriculture, Food, and Natural Resources

This course is designed to develop an understanding of turf grass 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.

### **Floral Design**

Course #: 13001800

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: Recommended Principles of Agriculture, Food, and Natural Resources

This course exposes students to the basic techniques of floral design. This class is a project based with many large and small projects used to evaluate the progress of the student. There are lots of hands-on- activities to involve the students in techniques required in the floral industry. This course meets the graduation requirements of the State of Texas as a Fine Arts credit. This course earns Fine Arts credit.

### **Horticulture Science**

Course #: 13002000

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: At least one (1) credit from the courses in the AFNR career cluster

Focuses on the identification, production and care of plants. The students will study propagation, fertilizing, transplanting, and growing various plants. Students will also investigate the various career pathways within the horticulture industry.

### **Advanced Floral Design**

Course #: N1300270

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: Floral Design

This course focuses on building skills in advanced floral design and providing students with a thorough understanding of the design elements and planning techniques used to produce unique specialty floral designs that support the goals and objectives of a specific occasion or event. Through the analysis and evaluation of various occasion and event types, students explore the design needs and expectations of clients and propose and evaluate appropriate creations. From conception to evaluation, students are challenged to create and design appropriate specialty floral designs that meet the needs of the client. Furthermore, an emphasis on budgetary adherence and entrepreneurship equips students with many of the necessary skills needed for success in floral enterprises.

### **Advanced Plant and Soil Science**

Course #: 13002100

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: Recommended Biology, Integrated Physics and Chemistry, Chemistry, or Physics, and a minimum of one (1) credit in a course from the AFNR career cluster

This course is designed to prepare students for careers in the food and fiber industry. Students will learn, reinforce and apply their knowledge in a scientific setting. This course earns a Science credit.



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

Course #: 13002500

Grade Level: 11-12

Course Credit: 2.0

Prerequisites: A minimum of two (2) credits with at least one (1) course in a Level 2 or higher course from the AFNR career cluster

This advanced floral design, welding, or animal science course meets the qualifications to prepare students for the Texas State Florists Association, High School Floral Design Certification examination or allows students additional time to work on contests or competitions in welding or animal science.



## **Architecture and Construction Career Cluster**

### **Carpentry Program of Study**

#### **Program of Study Course Sequence:**

Year 1	Year 2	Year 3	Year 4	Year 5
Principles of Construction	Construction Technology I	Construction Technology II	Practicum in Construction Technology	Career Preparation for Program of Study

### **Principles of Construction**

Course #: 13004220

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

This course is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. This 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.

### **Construction Technology I**

Course #: 13005100

Grade Level: 10-12

Course Credit: 2.0

Prerequisites: Recommended Principles of Construction

Students will gain knowledge and skills related to various careers in the construction trade. Students acquire knowledge in areas such as: safety, measuring, laying-out, hand tools/power tools, and assembling. Students will participate in hands-on lab activities, such as: blueprint reading, framing, roofing, etc.

### **Construction Technology II**

Course #: 13005200

Grade Level: 11-12

Course Credit: 2.0

Prerequisites: Construction Technology I

Students will gain advanced knowledge and skills related to various careers in construction trades. Advanced students will be expected to demonstrate good safety practices, craftsmanship, and leadership abilities to the first-year students. Advanced students will be expected to participate at a high level in hands-on lab activities related to the construction trades.

### **Practicum in Construction Technology**

Course #: 13005250

Grade Level: 12

Course Credit: 2.0

Prerequisites: Construction Technology II

Students will be challenged with the application of gained knowledge and skills from Construction Technology I and II. In many cases students will be allowed to work at a job (paid or unpaid) outside of school or be involved in local projects the school has approved for this class.



### **Career Preparation for Program of Study**

Course #: 12701300

Grade Level: 12

Course Credit: 2.0

Prerequisites: At least one Level 2 or higher CTE course

This program is designed to provide students with a diverse background in career interests with global work skills that will transfer to all areas of employment and provide the transition from school to work or a post-secondary program. Students will utilize employability skills to gain a position in a company; develop skills for success in the workplace; apply work ethics; integrate academic skills into workplace responsibilities; recognize the legal responsibilities of the profession; enhance self-development and interpersonal skills; identify skills related to safety at the workplace; acquire the academic and technical skills for future education and employment and identify skills and attributes necessary for professional advancement. Each student will have an individual training plan that will address their job specific knowledge and skills. Approved training sponsors will provide paid occupational training for a student.

## **Arts, Audio/Visual Technology, and Communications Career Cluster**

### **Graphic Design and Interactive Media Program of Study**

#### **Program of Study Course Sequence:**

Year 1	Year 2	Year 3	Year 4	Year 5
Principles of Arts, A/V Technology, and Communication	Video Game Design	Video Game Programming	Advanced Video Game Programming	Career Preparation for Program of Study
	Animation I	Animation II	Practicum in Animation	

#### **Principles of Arts, Audio/Visual Technology, and Communications**

Course #: 13008200

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

The goal of this course is that the student understands arts, audio/video technology, and communications systems. 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.

#### **Video Game Design**

Course #: 13009970

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: Recommended Principles of AAVTC

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 gaming, computerized gaming, evolution of gaming, artistic aspects of perspective, design, animation, technical concepts of collision theory, and programming logic. Students will participate in a simulation of a real video game design team while developing technical proficiency in constructing an original game design.

#### **Animation I**

Course #: 13008300

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: Recommended Principles of AAVTC

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



### **Video Game Programming**

Course #: N1300994

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: Recommended Video Game Design

This course expands on the foundation created in Video Game Design through programming languages such as: C# programming, XNA game studio, Java, and Android App. In this course, students will investigate the inner workings of a fully functional role-playing game (RPG) by customizing playable characters, items, maps, and chests and eventually applying customizations by altering and enhancing the core game code.

### **Animation II**

Course #: 13008400

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: Animation I

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

### **Advanced Video Game Programming**

Course #: N1300995

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Recommended Video Game Design and Video Game Programming

A continued study of game programming fostering student creativity and innovation by presenting opportunities to design, implement and present meaningful programs through a variety of media.

### **Practicum in Animation**

Course #: 13008450

Grade Level: 12

Course Credit: 1.0

Prerequisites: Animation II

Students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production animation products in a professional environment. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

### **Career Preparation for Program of Study**

Course #: 12701300

Grade Level: 12

Course Credit: 2.0

Prerequisites: At least one Level 2 or higher CTE course

This program is designed to provide students with a diverse background in career interests with global work skills that will transfer to all areas of employment and provide the transition from school to work or a post-secondary program. Students will utilize employability skills to gain a position in a company; develop skills for success in the workplace; apply work ethics; integrate academic skills into workplace responsibilities; recognize the legal responsibilities of the profession; enhance self-development and interpersonal skills; identify skills related to safety at the workplace; acquire the academic and technical skills for future education and employment and identify skills and attributes necessary for professional advancement. Each student will have an individual training plan that will address their job specific knowledge and skills. Approved training sponsors will provide paid occupational training for a student.





# **Business, Marketing, and Finance Career Cluster**

## **Business Management Program of Study**

### **Program of Study Course Sequence:**

Year 1	Year 2	Year 3	Year 4	Year 5
Principles of Business, Marketing, and Finance	Business Information Management I	Business Information Management II	Dual Credit Business Management	Practicum in Entrepreneurship
				Career Preparation for Program of Study

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

Course #: 13011200

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

Students are introduced to knowledge and skills of economics and private enterprise systems, impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles.

### **Business Information Management I**

Course #: 13011400

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

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

### **Business Information Management II**

Course #: 13011500

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: Business Information Management I

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

### **Dual Credit Business Management (Lone Star College)**

Course #: 13012100

Grade Level: 10-12

Course Credit: 1.0

Dual Credit: 3 Hours per Semester

Prerequisites: Business Information Management I

This course is designed to familiarize students with the concepts related to business management as well as the functions of management, including planning, organizing, staffing, leading, and controlling. Students will also demonstrate interpersonal and project-management skills. Additional fees may apply. This course provides dual credit through Lone Star College and all students are required to adhere to the Lone Star College policies, grading procedures and fees. Refer to Lone Star College for more details. Additional fees may apply.



### **Practicum in Entrepreneurship**

Course #: 13011111

Grade Level: 12

Course Credit: 2.0

Prerequisites: Recommended Entrepreneurship I and Entrepreneurship II, or successful completion of at least two (2) courses in a CTE program of study

This course provides students the opportunity to apply classroom learnings and experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and build on and apply the knowledge and skills gained from courses taken in an array of career areas. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of the student's need for work-based learning 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. It is recommended that students are paired with local business owners or employers in their specific industry program of study.

### **Career Preparation for Program of Study**

Course #: 12701300

Grade Level: 12

Course Credit: 2.0

Prerequisites: At least one Level 2 or higher CTE course

This program is designed to provide students with a diverse background in career interests with global work skills that will transfer to all areas of employment and provide the transition from school to work or a post-secondary program. Students will utilize employability skills to gain a position in a company; develop skills for success in the workplace; apply work ethics; integrate academic skills into workplace responsibilities; recognize the legal responsibilities of the profession; enhance self-development and interpersonal skills; identify skills related to safety at the workplace; acquire the academic and technical skills for future education and employment and identify skills and attributes necessary for professional advancement. Each student will have an individual training plan that will address their job specific knowledge and skills. Approved training sponsors will provide paid occupational training for a student.

## **Entrepreneurship Program of Study**

### **Program of Study Course Sequence:**

Year 1	Year 2	Year 3	Year 4	Year 5
Principles of Business, Marketing, and Finance	Business Information Management I	Entrepreneurship I	Entrepreneurship II	Practicum in Entrepreneurship
				Career Preparation for Program of Study

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

Course #: 13011200

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

Students are introduced to knowledge and skills of economics and private enterprise systems, impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles.

### **Business Information Management I**

Course #: 13011400

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

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.



### **Entrepreneurship I**

Course #: 13011101

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: Recommended Principles of Business, Marketing, and Finance

Students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students understand the capital required, the return on investment desired, and the potential for profit.

### **Entrepreneurship II**

Course #: 13011102

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Entrepreneurship I

This course prepares students with the knowledge and skills needed to become a successful entrepreneur within an innovative marketplace. The goal and outcome of the course is for students to have their business launched by the end of the course or have the tools necessary to launch and operate their business. Students are encouraged to work in close cooperation with local industry leaders, community members, and educators to develop ideas and objectives, complete a business model canvas, pitch to potential investors, register with governmental agencies, develop their brand identity, and participate in local chamber of commerce meetings and events.

### **Practicum in Entrepreneurship**

Course #: 13011111

Grade Level: 12

Course Credit: 2.0

Prerequisites: Recommended Entrepreneurship I and Entrepreneurship II, or successful completion of at least two (2) courses in a CTE program of study

This course provides students the opportunity to apply classroom learnings and experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and build on and apply the knowledge and skills gained from courses taken in an array of career areas. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of the student's need for work-based learning 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. It is recommended that students are paired with local business owners or employers in their specific industry program of study.

### **Career Preparation for Program of Study**

Course #: 12701300

Grade Level: 12

Course Credit: 2.0

Prerequisites: At least one Level 2 or higher CTE course

This program is designed to provide students with a diverse background in career interests with global work skills that will transfer to all areas of employment and provide the transition from school to work or a post-secondary program. Students will utilize employability skills to gain a position in a company; develop skills for success in the workplace; apply work ethics; integrate academic skills into workplace responsibilities; recognize the legal responsibilities of the profession; enhance self-development and interpersonal skills; identify skills related to safety at the workplace; acquire the academic and technical skills for future education and employment and identify skills and attributes necessary for professional advancement. Each student will have an individual training plan that will address their job specific knowledge and skills. Approved training sponsors will provide paid occupational training for a student.



## Real Estate Program of Study

### Program of Study Course Sequence:

Year 1	Year 2	Year 3	Year 5
Principles of Business, Marketing, and Finance	Entrepreneurship I	Fundamentals of Real Estate	Practicum in Entrepreneurship
Professional Communications	Financial Mathematics		Career Preparation for Program of Study

**Students in this Program of Study may *not* earn their Real Estate license but will gain necessary knowledge and skills in the career field.**

### Principles of Business, Marketing, and Finance

Course #: 13011200

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

Students are introduced to knowledge and skills of economics and private enterprise systems, impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles.

### Professional Communications

Course #: 13009900

Grade Level: 9-12

Course Credit: 0.5

Prerequisites: None

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

### Entrepreneurship I

Course #: 13011101

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: Recommended Principles of Business, Marketing, and Finance

Students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students understand the capital required, the return on investment desired, and the potential for profit.

### Financial Mathematics

Course #: 13018000

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Algebra I

This course is about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors. This course earns a Mathematics credit.



## **Fundamentals of Real Estate**

Course #: N1301120

Grade Level: 11-12

Course Credit: 2.0

Prerequisites: None

This course contains the curriculum necessary to complete the pre-licensure education requirements of the Texas Real Estate Commission (TREC) to obtain a real estate salesperson license. Includes the following TREC course materials: Principles of Real Estate I and II, Law of Contracts, Law of Agency, Real Estate Finance, and Promulgated Contract Forms. **Students in this course will not earn their Real Estate license but will gain necessary knowledge and skills in the career field.**

## **Practicum in Entrepreneurship**

Course #: 13011111

Grade Level: 12

Course Credit: 2.0

Prerequisites: Recommended Entrepreneurship I and Entrepreneurship II, or successful completion of at least two (2) courses in a CTE program of study

This course provides students the opportunity to apply classroom learnings and experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and build on and apply the knowledge and skills gained from courses taken in an array of career areas. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of the student's need for work-based learning 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. It is recommended that students are paired with local business owners or employers in their specific industry program of study.

## **Career Preparation for Program of Study**

Course #: 12701300

Grade Level: 12

Course Credit: 2.0

Prerequisites: At least one Level 2 or higher CTE course

This program is designed to provide students with a diverse background in career interests with global work skills that will transfer to all areas of employment and provide the transition from school to work or a post-secondary program. Students will utilize employability skills to gain a position in a company; develop skills for success in the workplace; apply work ethics; integrate academic skills into workplace responsibilities; recognize the legal responsibilities of the profession; enhance self-development and interpersonal skills; identify skills related to safety at the workplace; acquire the academic and technical skills for future education and employment and identify skills and attributes necessary for professional advancement. Each student will have an individual training plan that will address their job specific knowledge and skills. Approved training sponsors will provide paid occupational training for a student.



## **Education and Training Career Cluster**

### **Early Learning Program of Study**

#### **Program of Study Course Sequence:**

Year 1	Year 2	Year 3	Year 4
Principles of Education and Training	Child Development	Child Guidance	Career Preparation for Program of Study
Principles of Human Services			



### **Principles of Education and Training**

Course #: 13014200

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

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

### **Principles of Human Services**

Course #: 13024200

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

This laboratory course will enable students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, 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.

### **Child Development**

Course #: 13024700

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: Recommended Principles of Education and Training

This course is a technical laboratory course that 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**

Course #: 13024800

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: Child Development

This course is a technical laboratory course that addresses the knowledge and skills related to child growth and guidance equipping students to develop positive relationships with children and effective caregiver skills. Students use these skills to promote the well-being and healthy development of children, strengthen a culturally diverse society, and pursue careers related to the care, guidance, and education of children, including those with special needs. Instruction may be delivered through school-based laboratory training or through work-based delivery arrangements such as cooperative education, mentoring, and job shadowing.

### **Career Preparation for Program of Study**

Course #: 12701300

Grade Level: 12

Course Credit: 2.0

Prerequisites: At least one (1) Level 2 or higher CTE course

This program is designed to provide students with a diverse background in career interests with global work skills that will transfer to all areas of employment and provide the transition from school to work or a post-secondary program. Students will utilize employability skills to gain a position in a company; develop skills for success in the workplace; apply work ethics; integrate academic skills into workplace responsibilities; recognize the legal responsibilities of the profession; enhance self-development and interpersonal skills; identify skills related to safety at the workplace; acquire the academic and technical skills for future education and employment and identify skills and attributes necessary for professional advancement. Each student will have an individual training plan that will address their job specific knowledge and skills. Approved training sponsors will provide paid occupational training for a student.



## **Teaching and Training Program of Study**

### **Program of Study Course Sequence:**

Year 1	Year 2	Year 3	Year 4	Year 5
Principles of Education and Training	Human Growth and Development	Instructional Practices	Practicum in Education and Training	Career Preparation for Program of Study
Principles of Human Services				

### **Principles of Education and Training**

Course #: 13014200

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

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

### **Principles of Human Services**

Course #: 13024200

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

This laboratory course will enable students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, 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.

### **Human Growth and Development**

Course #: 13014300

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: Recommended Principles of Education and Training

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

### **Instructional Practices**

Course #: 13014400

Grade Level: 9-12

Course Credit: 2.0

Prerequisites: One (1) credit from Education and Training career cluster; Recommended Principles of Education and Training or Child Development

This field-based internship provides students with background knowledge of child and adolescent development principles as well as principles of effective teaching practices. Students work under the joint direction and supervision of both a family and consumer sciences teacher and exemplary educators in direct instructional roles with elementary or 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 classroom teachers.

### **Practicum in Education and Training**

Course #: 13014500

Grade Level: 9-12

Course Credit: 2.0

Prerequisites: Instructional Practices; Recommended Principles of Education and Training, Human Growth and Development, and Child Development.

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



educators in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of classroom teachers, trainers, paraprofessionals, or other educational personnel.

### **Career Preparation for Program of Study**

Course #: 12701300

Grade Level: 12

Course Credit: 2.0

Prerequisites: At least one (1) Level 2 or higher CTE course

This program is designed to provide students with a diverse background in career interests with global work skills that will transfer to all areas of employment and provide the transition from school to work or a post-secondary program. Students will utilize employability skills to gain a position in a company; develop skills for success in the workplace; apply work ethics; integrate academic skills into workplace responsibilities; recognize the legal responsibilities of the profession; enhance self-development and interpersonal skills; identify skills related to safety at the workplace; acquire the academic and technical skills for future education and employment and identify skills and attributes necessary for professional advancement. Each student will have an individual training plan that will address their job specific knowledge and skills. Approved training sponsors will provide paid occupational training for a student.



## **Engineering Career Cluster**

### **Engineering Foundations Program of Study**

#### **Program of Study Course Sequence:**

Year 1	Year 2	Year 3	Year 4
Principles of Applied Engineering	Robotics I	Robotics II	Engineering Design and Problem Solving

#### **Principles of Applied Engineering**

Course #: 13036200

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

This course provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will understand the various fields of engineering and will be able to make informed career decisions. 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.

#### **Robotics I**

Course #: 13037000

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: Recommended Principles of Applied Engineering

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**

Course #: 13037050

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: Robotics I

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 Problem Solving**

Course #: 13037300

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Algebra I, Geometry, and at least one (1) credit in a Level 2 or higher course

This course is 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. The design process and problem solving are inherent to all engineering disciplines.



## **Health Science Career Cluster**

### **Diagnostics and Therapeutic Services Program of Study**

#### **Program of Study Course Sequence:**

Year 1	Year 2	Year 3	Year 4
Principles of Health Science	Medical Terminology	Anatomy and Physiology	Health Science Theory
		Health Science Theory	Practicum in Health Science

#### **Principles of Health Science**

Course #: 13020200

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

This course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry.

#### **Medical Terminology**

Course #: 13020300

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: None

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

#### **Anatomy and Physiology**

Course #: 13020600

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: One (1) credit in Biology and one (1) credit in Chemistry, Integrated Physics and Chemistry, or Physics

In this course students conduct in-depth investigations of anatomy and physiology of human systems including circulatory, nervous, endocrine and respiratory systems. This course earns a Science credit.

#### **Health Science Theory**

Course #: 13020400

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: One (1) credit in Biology and at least one (1) credit in a course from the Health Science career cluster

This course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development.



### **Practicum in Health Science**

Course #: 13020500

Grade Level: 12

Course Credit: 2.0

Prerequisites: Health Science Theory and Biology

Notes: Due to the nature of this training, a criminal background check will be conducted on each student. Students taking this course are given the opportunity to complete the requirements for and take the Certified Nurse Assistant (CNA) certification examination. This course is designed to develop health-care specific knowledge and skills in effective communications, ethical and legal responsibilities, client care, safety, first aid, and CPR. This course prepares the student for the transition to clinical or work-based learning experiences in health care.



## **Hospitality and Tourism Career Cluster**

### **Culinary Arts Program of Study**

#### **Program of Study Course Sequence:**

Year 1	Year 2	Year 3	Year 4
Introduction to Culinary Arts	Culinary Arts	Advanced Culinary Arts	Food Science
Principles of Hospitality and Tourism	Foundations of Restaurant Management		Career Preparation for Program of Study

### **Introduction to Culinary Arts**

Course #: 13022550

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: Recommended Principles of Hospitality and Tourism

This course will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This is an entry level course for students interested in pursuing a career in the food service industry. This course is offered as a classroom and laboratory-based course.

### **Principles of Hospitality and Tourism**

Course #: 13022200

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

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

### **Culinary Arts**

Course #: 13022600

Grade Level: 10-12

Course Credit: 2.0

Prerequisites: Recommended Principles of Hospitality and Tourism, and Introduction to Culinary Arts

This course begins with the fundamentals and principles of the art of cooking and the science of baking including knife skills. Includes front and back of the house skills and techniques. Focus on safety, sanitation and teamwork.



### **Foundations of Restaurant Management**

Course #: N1302268

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: Recommended Principles of Hospitality and Tourism, and Introduction to Culinary Arts

This course provides students with a foundation to understand basic culinary skills and food service-restaurant management, along with current food service restaurant industry topics and standards. Building on prior instruction, this course provides introductory insight into critical thinking, financial analysis, industry technology, social media, customer awareness and leadership in the food service-restaurant industry. Students will gain an understanding of food service-restaurant operations and the importance of communicating effectively to diverse audiences, purposes and situations in food service-restaurant operations and management. Students will learn how the front of the house and the back of the house of management operate and collaborate and obtain value-added certifications in the industry to help launch themselves into restaurant/foodservice careers.

### **Advanced Culinary Arts**

Course #: 13022650

Grade Level: 10-12

Course Credit: 2.0

Prerequisites: Culinary Arts

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

### **Food Science**

Course #: 13023000

Grade Level: 12

Course Credit: 2.0

Prerequisites: One (1) credit in Biology, one (1) credit in Chemistry, and at least one (1) credit in a Level 2 or higher course from the Hospitality and Tourism career cluster

Students examine the nature and properties of foods, food microbiology, and the principles of science in food production, processing, preparation, and preservation; use scientific methods to conduct laboratory and field investigations; and make informed decisions using critical thinking and scientific problem solving. This course provides students a foundation for further study that leads to occupations in food and beverage services; the health sciences; agriculture, food, and natural resources; and human services. This course earns a Science credit.

### **Career Preparation for Program of Study**

Course #: 12701300

Grade Level: 12

Course Credit: 2.0

Prerequisites: At least one (1) Level 2 or higher CTE course

This program is designed to provide students with a diverse background in career interests with global work skills that will transfer to all areas of employment and provide the transition from school to work or a post-secondary program. Students will utilize employability skills to gain a position in a company; develop skills for success in the workplace; apply work ethics; integrate academic skills into workplace responsibilities; recognize the legal responsibilities of the profession; enhance self-development and interpersonal skills; identify skills related to safety at the workplace; acquire the academic and technical skills for future education and employment and identify skills and attributes necessary for professional advancement. Each student will have an individual training plan that will address their job specific knowledge and skills. Approved training sponsors will provide paid occupational training for a student.



## **Human Services Career Cluster**

### **Cosmetology and Personal Care Services Program of Study**

#### **Program of Study Course Sequence:**

Year 1	Year 2	Year 3	Year 4
Principles of Cosmetology Design and Color Theory	Introduction to Cosmetology	Cosmetology I with Lab	Cosmetology II with Lab



### **Principles of Cosmetology Design and Color Theory**

Course #: 13025050

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

Students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Students will attain academic skills and knowledge as well as technical knowledge and skills related to cosmetology design and color theory. Students will develop knowledge and skills regarding various cosmetology design elements such as form, lines, texture, structure and illusion or depth as they relate to the art of cosmetology. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the TDLR requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included.

### **Introduction to Cosmetology**

Course #: 13025100

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: None

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

### **Cosmetology I with Lab**

Course #: 13025210

Grade Level: 11-12

Course Credit: 3.0

Prerequisites: Recommended Introduction to Cosmetology

This course is a planned 1500 clock hour, two-year sequence of classroom and laboratory instruction, 1000 laboratory clock hours plus 500 academic hours awarded upon the completion of the 1000 laboratory hours, which include required afterschool, weekend, and summer clock hours. Instruction is designed to provide job-specific training for entry level employment in cosmetology careers. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the Texas Department of Licensing and Regulation requirements for licensure upon passing the state examination, which will be taken after the completion of Cosmetology II. Analysis of career opportunities, requirements, expectations, and development of workplace skills are included.

### **Cosmetology II with Lab**

Course #: 13025310

Grade Level: 12

Course Credit: 3.0

Prerequisites: Cosmetology I with Lab

This course is a continuation of Cosmetology I. This course is designed to provide advanced training for employment in cosmetology careers. Students apply, combine, and justify knowledge and skills to a variety of settings and problems. The completion of the two-year program meets the Texas Department of Licensing and Regulations Commission requirements for licensure upon passing state exam.

## **Family and Community Services Program of Study**

### **Program of Study Course Sequence:**

Year 1	Year 2		Year 3	Year 4
Principles of Human Services	Interpersonal Studies	Lifetime Nutrition and Wellness	Practicum in Human Services	Career Preparation for Program of Study
	Human Growth and Development			



### **Principles of Human Services**

Course #: 13024200

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

This laboratory course will enable students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, and personal care services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers.

### **Interpersonal Studies**

Course #: 13024400

Grade Level: 9-12

Course Credit: 0.5

Prerequisites: Recommended Principles of Human Services, Principles of Hospitality and Tourism, Principles of Health Sciences, or Principles of Education and Training

This course examines how the relationships between individuals and 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.

### **Lifetime Nutrition and Wellness**

Course #: 13024500

Grade Level: 9-12

Course Credit: 0.5

Prerequisites: Recommended Principles of Human Services, Principles of Hospitality and Tourism, or Principles of Health Sciences

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

### **Human Growth and Development**

Course #: 13014300

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: Recommended Principles of Human Services, or Principles of Education and Training

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

### **Practicum in Human Services**

Course #: 13020500

Grade Level: 11-12

Course Credit: 2.0

Prerequisites: None

This course provides background knowledge and occupation-specific training that focuses on the development of consumer services, early childhood development and services, counseling and mental health services, and family and community-services careers. Content for Practicum in Human Services is designed to meet the occupational preparation needs and interests of students and should be based upon the knowledge and skills selected from two or more courses in a coherent sequence in the human services cluster. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

### **Career Preparation for Program of Study**

Course #: 12701300

Grade Level: 12

Course Credit: 2.0

Prerequisites: At least one (1) Level 2 or higher CTE course

This program is designed to provide students with a diverse background in career interests with global work skills that will transfer to all areas of employment and provide the transition from school to work or a post-secondary program. Students will utilize employability skills to gain a position in a company; develop skills for success in the workplace; apply work ethics; integrate academic skills into workplace responsibilities; recognize the legal responsibilities of the profession; enhance self-development and interpersonal skills; identify skills related to safety at the workplace; acquire the academic and technical skills for future education and employment and identify skills and attributes necessary for professional advancement. Each student will have an individual training plan that will address their job specific knowledge and skills. Approved training sponsors will provide paid occupational training for a student.



## **Law and Public Safety Career Cluster**

### **Law Enforcement Program of Study**

#### **Program of Study Course Sequence:**

Year 1	Year 2	Year 3	Year 4
Principles of Law, Public Safety, Corrections, and Security	Law Enforcement I	Law Enforcement II	Practicum in Law, Public Safety, Corrections, and Security
	Criminal Investigations	Correctional Services	Forensic Science

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

Course #: 13029200

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

This course is a study of the nature of criminal law, its philosophical and historical development with major definitions and concepts. Instruction will include the classifications of crimes with the elements of crimes and penalties using Texas statutes as illustrations.

#### **Law Enforcement I**

Course #: 13029300

Grade Level: 10-12

Course Credit: 1.0

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

This course is designed as a study of the history and philosophy of criminal justice and its ethical considerations. Crime is defined. Its nature and impact are explored. Instruction includes an overview of the criminal justice system, law enforcement and the court systems, a study of prosecution and defense, trial processes, and corrections and penal systems. The student will learn basic law enforcement techniques such as handcuffing procedures, traffic stops, and report writing. Student's grades will reflect mastery of information through lecture and hands on applications.

#### **Criminal Investigations**

Course #: 13029550

Grade Level: 10-12

Course Credit: 1.0

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

This course introduces students to the profession of criminal investigations. Students will understand basic functions of criminal investigations and procedures and will learn how to investigate or follow up during investigations. Students will learn terminology and investigative procedures related to criminal investigation, crime scene processing, evidence collection, fingerprinting, and courtroom presentation. Through case studies and simulated crime scenes, students will collect and analyze evidence such as fingerprint analysis, bodily fluids, hairs, fibers, shoe and tire impressions, bite marks, drugs, tool marks, firearms and ammunition, blood spatter, digital evidence, and other types of evidence.

#### **Law Enforcement II**

Course #: 13029400

Grade Level: 11-12

Course Credit: 1.0

Prerequisites: Law Enforcement I

This course provides the knowledge and skills necessary to prepare for a career in law enforcement. This course includes ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony.



### **Dual Credit Correctional Services (Lone Star College)**

Course #: 13029700

Grade Level: 11-12

Course Credit: 1.0

Dual Credit: 3 Hours

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

Students prepare for certification required for employment as a municipal, county, state, or federal correctional officer. Students will learn the role and responsibilities of a county or municipal correctional officer; discuss relevant rules, regulations, and laws of municipal, county, state, or federal facilities; and discuss defensive tactics, restraint techniques, and first aid procedures as used in the municipal, county, state, or federal correctional setting. Students will analyze rehabilitation and alternatives to institutionalization for inmates. This course provides dual credit through Lone Star College and all students are required to adhere to the Lone Star College policies, grading procedures and fees. Refer to Lone Star College for more details. Additional fees may apply.

### **Forensic Science**

Course #: 13029500

Grade Level: 12

Course Credit: 1.0

Prerequisites: One (1) credit in Biology, one (1) credit in Chemistry, Integrated Chemistry and Physics, or Physics

This course is a survey course that introduces students to the application of science to law. Students learn terminology and procedures related to the collection and examination of physical evidence using scientific processes performed in a field or laboratory setting. Students also learn the history and the legal aspects of forensic science. This course earns a Science credit.

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

Course #: 13030100

Grade Level: 12

Course Credit: 2.0

Prerequisites: None

The practicum course is designed to give students supervised practical application of previously studied knowledge and skills in law, public safety, corrections, and security. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.



## **Manufacturing Career Cluster**

### **Robotics and Automation Technology Program of Study**

#### **Program of Study Course Sequence:**

Year 1	Year 2	Year 3	Year 4
Principles of Applied Engineering	Robotics I	Robotics II	Practicum in Manufacturing

### **Principles of Applied Engineering**

Course #: 13036200

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

This course provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will understand the various fields of engineering and will be able to make informed career decisions. 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.



### **Robotics I**

Course #: 13037000

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: Recommended Principles of Applied Engineering

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**

Course #: 13037050

Grade Level: 10-12

Course Credit: 1.0

Prerequisites: Robotics I

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.

### **Practicum in Manufacturing**

Course #: 13033000

Grade Level: 12

Course Credit: 2.0

Prerequisites: None

This course is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.



## **Transportation Career Cluster**

### **Automotive and Collision Repair Program of Study**

#### **Program of Study Course Sequence:**

Year 1	Year 2	Year 3	Year 4	Year 5
Small Engine Technology I	Small Engine Technology II	Automotive Technology I: Maintenance and Light Repair	Automotive Technology II: Automotive Service	Career Preparation for Program of Study
	Dual Credit Practicum in Transportation Systems	Dual Credit Practicum in Transportation Systems + Expanded Practicum in Transportation Systems	Practicum of Entrepreneurship	

### **Small Engine Technology I**

Course #: 13040000

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: None

This course includes knowledge of the function and maintenance of the systems and components of all types of small engines such as outdoor power equipment, motorcycles, generators, and irrigation engines. This course is designed to provide training for employment in the small engine technology industry. Instruction includes the repair and service of cooling, air, fuel, lubricating, electrical, ignition, and mechanical systems. In addition, the student will receive instruction in safety, academic, and leadership skills as well as career opportunities.

### **Small Engine Technology II**

Course #: 13040100

Grade Level: 9-12

Course Credit: 1.0

Prerequisites: Small Engine Technology I

This course includes advanced knowledge of the function, diagnosis, and service of the systems and components of all types of small engines such as outdoor power equipment, motorcycles, generators, and irrigation engines. This course is designed to provide hands-on and practical application for employment in the small engine technology industry. Instruction includes the repair and service of





cooling, air, fuel, lubricating, electrical, ignition, and mechanical systems and small engine overhauls. In addition, students will receive instruction in safety, academic, and leadership skills as well as career opportunities.

### **Dual Credit Practicum in Transportation Systems (Lone Star College)**

Course #: D1304045                      Grade Level: 10-12                      Course Credit: 2.0  
Dual Credit: 4 Hours per Semester  
Prerequisites: None

This course is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study, or laboratories. The Practicum can be either school lab based or worked based. This course provides dual credit through Lone Star College and all students are required to adhere to the Lone Star College policies, grading procedures and fees. Refer to Lone Star College for more details. Additional fees may apply.

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

Course #: 13039600                      Grade Level: 10-12                      Course Credit: 2.0  
Prerequisites: None

This course includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. This course includes applicable safety and environmental rules and regulations. In Automotive Technology I: Maintenance and Light Repair, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

### **Dual Credit Practicum in Transportation Systems + Extended Practicum in Transportation Systems (Lone Star College)**

Course #: D1304046                      Grade Level: 11-12                      Course Credit: 2.0  
Dual Credit: 4 Hours per Semester  
Prerequisites: Practicum in Transportation Systems

This course is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study, or laboratories. Extended Practicum in Transportation Systems can be either school lab based or worked based. This course provides dual credit through Lone Star College and all students are required to adhere to the Lone Star College policies, grading procedures and fees. Refer to Lone Star College for more details. Additional fees may apply.

### **Automotive Technology II: Automotive Service**

Course #: 13039700                      Grade Level: 11-12                      Course Credit: 2.0  
Prerequisites: Automotive Technology I: Maintenance and Light Repair

This course includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. Automotive Technology II: Automotive Service includes applicable safety and environmental rules and regulations. In this course, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

### **Practicum of Entrepreneurship**

Course #: N1303425                      Grade Level: 12                      Course Credit: 2.0  
Prerequisites: Recommended Entrepreneurship I and II or successful completion of at least two (2) courses in a CTE program of study

This course provides students the opportunity to apply classroom learnings and experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and build on and apply the knowledge and skills gained from courses taken in an array of career areas. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of the student's need for work-based learning 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. It is recommended that students are paired with local business owners or employers in their specific industry program of study.

### **Career Preparation for Program of Study**

Course #: 12701300

Grade Level: 12

Course Credit: 2.0

Prerequisites: At least one (1) Level 2 or higher CTE course

This program is designed to provide students with a diverse background in career interests with global work skills that will transfer to all areas of employment and provide the transition from school to work or a post-secondary program. Students will utilize employability skills to gain a position in a company; develop skills for success in the workplace; apply work ethics; integrate academic skills into workplace responsibilities; recognize the legal responsibilities of the profession; enhance self-development and interpersonal skills; identify skills related to safety at the workplace; acquire the academic and technical skills for future education and employment and identify skills and attributes necessary for professional advancement. Each student will have an individual training plan that will address their job specific knowledge and skills. Approved training sponsors will provide paid occupational training for a student.