

# Hardin-Jefferson High School



## COURSE SELECTION Guide

2026—2027

**Courses presented in this publication are those offered for the 2026-2027 school year. Courses may be eliminated due to lack of student requests, conflicts with other courses in the master schedule and/or staffing concerns.**

**Hardin-Jefferson High School**  
**Course Selection Guide**  
**Grades 9-12**

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**HARDIN-JEFFERSON ISD  
CAREER AND TECHNICAL EDUCATION PROGRAM**

(Public Notification of Nondiscrimination in Career and Technical Education Programs)

Hardin-Jefferson I.S.D. offers career and technical education programs in Agricultural, Food, and Natural Resources: Principals of Agriculture, Food, and Natural Resources, Livestock Production, Small Animal Management, Equine Science, Advanced Animal Science, Veterinary Medical Applications, Agricultural Mechanics and Metal Technologies, Agricultural Structures Design and Fabrications, Agricultural Equipment Design and Fabrications, and Principals of Floral Design. Arts, Audio Video Technology, and Communications courses include: Audio Video Production I, Audio Video Production II, Video Game Design, Graphic Design and Illustration I, and Graphic Design and Illustration II. Business Management and Administration courses include: Principals of Business, Marketing, and Finance, Advertising, and Virtual Business. Health Science Education courses include: Principles of Health Science, Medical Terminology, Anatomy and Physiology, and Health Science. Law, Public Safety Corrections and Security courses include: Principals of Law, Public Safety, Corrections, and Security and Law Enforcement. Hospitality and Tourism courses include Culinary Arts and Advanced Culinary Arts. Science, Technology, Engineering and Math (STEM) courses include: Principles of Engineering, Engineering Design and Problem Solving, Scientific Research and Design, Engineering Science, and Computer Science. Admission to these programs is based on prerequisites, students grade level, and the course selection guide.

It is the policy of Hardin-Jefferson I.S.D. not to discriminate on the basis of race, color, national origin, sex or handicap in its vocational programs, services or activities as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.

It is the policy of Hardin-Jefferson I.S.D. not to discriminate on the basis of race, color, national origin, sex, handicap, or age in its employment practices as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; the Age Discrimination Act of 1975, as amended; and Section 504 of the Rehabilitation Act of 1973, as amended.

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Hardin-Jefferson I.S.D. will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs.

For information about your rights or grievance procedures, contact the Hardin-Jefferson Administration Office at 520 West Herring Street, Sour Lake, Texas 77659, 409-981-6400.

Dear Parents,

The purpose of the Course Selection Guide is to provide a complete list of courses, to assist in the selection of courses for the coming year, and to help develop plans for the future. If you have questions about what courses your student should select, please consult the school counselors. *All students will be required to turn in a course selection form for each year.* If your student does not complete a form, the counselors will plan a schedule for him/her.

Schedule changes are extremely difficult after the year begins. Changes will not be considered except in extreme emergencies. *There will be no schedule changes made after the first week of school.*

If you need assistance, please call (409) 981-6420 and select extension 2107 to connect to the Counseling Office. The counselors will be glad to assist you with these very important decisions regarding your student's education.

Sincerely,

*Patrick Brown*

Patrick Brown

Principal

## **Title IX Compliance**

**In agreement with Title 9 rules and regulations, the Hardin-Jefferson Independent School District does not discriminate on the basis of sex, national origin, race, color or handicap in making decisions regarding employees or students in all its functions. Individuals having questions regarding Hardin-Jefferson ISD practices may address them through the Superintendent's office.**

### ***HJISD Mission Statement***

To provide the best possible education for all students in an environment that promotes and develops responsible, productive citizens through cooperative effort of all parents, students, teachers, administrators, and the Hardin-Jefferson Community.

### ***HJHS Mission Statement***

Hardin-Jefferson High School, in collaboration with all other HJISD campuses and the HJISD community, will provide the very best educational opportunity in which students can pursue a life's work of their choosing through a comprehensive and diverse combination of academic and extracurricular programs that cultivate an environment with high expectations of excellence for all students, helping them to become independent thinkers, innovators, and high achievers.

### ***HJHS Vision Statement***

**H**elping achieve greatness

**A**ccountability in all endeavors

**W**inning as a tradition

**K**nowledge through experience

**S**pirit in competition

### **Contact Information**

***Mailing Address:***

HJHS  
PO Box 639  
Sour Lake, Texas 77659

***Phone:***

409-981-6420

***Fax:***

409-981-6492

***Physical Address:***

3155 HWY 326  
Sour Lake, TX 77659



### **HJHS Administrative Staff**

<b>Principal</b>	Patrick Brown	X 2103
<b>Assistant Principal</b>	Alicia Rutherford	X 2105
<b>Counselor Class of 2028 &amp; 2030</b>	Stephanie McLeod	X 2108
<b>Counselor Class of 2027 &amp; 2029</b>	Rachel Cordova	X 2109
<b>Athletic Director</b>	Zach Bass	X 2116
<b>Registrar</b>	Kristina Stanley	X 2110
<b>Principal's Secretary</b>	Alicia Schaeffer	X 2102
<b>Assistant Principal's Secretary</b>	Lulanda Jackson	X 2101
<b>Counselor's Secretary</b>	Tracy Coates	X 2107
<b>Nurse</b>	Dayna Hilton	X 2106
<b>Attendance Clerk</b>	Janyce Baack	X 2119

## STAAR End of Course Tests

- The state requires that students meet the Satisfactory Performance standard, for all courses that have a STAAR End of Course test, in order to graduate. The following courses have a STAAR End of Course test:
    - English I & English II
    - Algebra I
    - Biology
    - US History
  - Students will be required to retest on all End of Course tests in which they do not meet the Satisfactory Performance standard. Retests are offered in December and again in June. Students must retest as many times as it takes to meet the Satisfactory Performance standard.
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## Physical Education Waiver

If a student must be excused from the regular physical education class because of a physical handicap, a written request for the change must be made by the family physician. All students must earn one in physical education. Only the fall semester of marching band may be substituted for the required credits in physical education.

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### *Classification of Students*

	Minimum	Maximum
Freshman	0	5.5 credits and completion of 1st year
Sophomore	6	11.5 credits and completion of 2nd year
Junior	12	18.5credits and completion of 3rd year
Senior	19	25.5credits and completion of 4th year
Graduate	26 credits	

## Grading Guidelines

### Minimum Grade Policy

Students will be given the opportunity to make up failing test grades by replacing a minimum of 20% of test grades/20% of daily grades, in each nine-week grading period. Failing scores are grades less than 70. Students will make up assignments according to teacher guidelines. Students will have, subject to teacher discretion, a minimum of one and a maximum of three weeks to replace failing grades. Nine-week tests, benchmark exams, research papers, projects, and semester exams may not be replaced.

### ZAP (Zeros Aren't Permitted) Policy

ZAP is an opportunity for students to make up zeroes on daily work. Zeroes must be made up within three weeks of receiving the failing grade. ZAP will be scheduled on Saturday mornings and students will be required to wear their picture ID, be in full compliance with the dress code, and on time to attend. Students will be allowed to make up any zero received in the three weeks prior to ZAP. Information about ZAP can be obtained from each campus office.

### Grading Guidelines

Achievement is reported to parents through the use of school report cards, progress reports and final transcripts. Nine weeks, semester grades, semester/final exams, and final grade averages may not exceed 100%. Student grades shall be determined as follows:

	40% Daily Grades	60% Major Grades
Minimum grades per quarter:	Standard classes 14 Daily Grades	4 Major Grades
	AP and Honors 10 Daily Grades	3 Major Grades

Semester Average:	40% 1st nine wks grade + 40% 2nd nine wks grade + 20% semester exam = semester 1 average
	40% 3rd nine wks grade + 40% 4th nine wks grade + 20% final exam = semester 2 average

## College Bound Students

**Typical Minimum Entrance Requirements:** Each college has its own set of entrance requirements and proficiency levels. One must visit the web-sites for each college in order to gather the most up-to-date information. Students should note that the entrance requirements vary within departments or divisions of a college. For example, engineering schools require that students present additional or specific units in mathematics and science.

**Required Credits and Limitations on Electives:** The number of electives allowed for admission varies considerably among colleges, and sometimes only a limited number of certain types of electives are accepted. Students should check carefully to determine the limitations placed by the college of their choice on the number of electives allowed in a certain subject area or in a combination of certain subject areas.

**Rank in Class:** Top ten percent students are eligible for automatic admission to any public university in Texas under House Bill 588, except the University of Texas & Texas A&M.

**ACT/SAT:** The American College Test Battery (**ACT**) or the Scholastic Achievement Test (**SAT**) is required by most colleges. It is recommended that students take the ACT and/or SAT during the spring of their junior year or fall of their senior year. Students should consult college bulletins to determine required or recommended tests and test deadlines.

**Texas Success Initiative 2.0:** The Texas Success Initiative Assessment 2.0 (TSIA2) is a series of placement tests for students enrolling in public colleges and universities in Texas. The tests help Texas schools determine whether you're ready for college-level courses in the areas of reading, writing, and math. If you're not ready for college-level courses, the tests help determine what types of courses or intervention will best prepare you for college-level work. You take TSIA2 tests on a computer and, depending on school policy, may get your results immediately after you finish the test. Not all Texas college students have to take TSIA2. If you've met college readiness standards on a standardized test like the SAT or successfully completed a high school college preparatory course, you may be exempt. Contact the college you'll be attending to see if you need to take TSIA2.

**Financial Aid:** Financial Aid is available to help qualified students pay for education beyond high school. It is very important to begin planning early. Information can be obtained from the college financial aid officer or at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). Financial aid may include scholarships, loans, grants, and work study programs.



## Advanced Placement

AP Curriculum courses accelerate the student's instruction, thus preparing the student for national examinations held each spring. Scoring a high grade on the AP exams earns college credits for students while still in high school. AP courses offered by Hardin-Jefferson include:

**AP English III**

**AP Microeconomics**

**AP Biology**

**AP English IV**

**AP Chemistry**

**AP US History**

**AP Government**

**AP Calculus**

**AP Psychology**

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## Graduation Requirements

1. One must have passed the STAAR (EOC) tests in English I and II, Algebra I, Biology and US History, or have been exempt as a result of an ARD decision.
2. One must have earned the necessary number/kind of credits as defined by that graduation program.
3. Twenty-six credits must be earned by every student in order to graduate from Hardin-Jefferson High School.

## LIT Dual Credit Courses at Hardin-Jefferson

Hardin-Jefferson High School offers several university courses. These courses are offered during the day and are part of the high school student's class schedule. They are taught by LIT professors and are monitored by a Hardin-Jefferson High School employee. The LIT teacher provides all instruction, tutoring, testing and grading. The high school employee is a monitor only and is not an instructor. Upon satisfactory completion of the course, the student is awarded LIT credit and may be awarded high school credit if the class is offered on the high school campus. (Credit can only be awarded once for any course.)

The university furnishes the high school office with a transcript or report card showing the grade. All high school rules and regulations apply to any student in the Dual Credit Courses. All LIT rules and regulations apply to any student in the Dual Credit Courses. The LIT professor is the university representative and has the university's authority.

***\*\*\* Students who earn a D or F as their final dual credit course grade will not be allowed to enroll in future dual credit courses.***

### Dual Credit Admission Policies

Junior & senior high school students may qualify for admission to the dual credit (concurrent enrollment) program at LIT in one of the following ways:

1. TSIA 2.0
  - ELAR – 945
  - Math – 950
  - Essay- 5
  
2. SAT
  - Verbal – at least 480
  - Math – at least 530
  
3. ACT:
  - English – at least 19
  - Math – at least 19
  - Composite – at least 23

# COURSE SELECTIONS

In this section, courses are listed by:

Course titles

Additional Information Includes:

Grade levels

Credits

Course descriptions

Pre-requisites

Local course numbers

## English Language Arts

### **English I, Grade 9**

Course #1011

1 credit

*Prerequisite:* None

English I involves instruction in writing, grammar skills, and literature. Students enrolled in this course will continue to increase and refine their communication skills through reading, writing, and speaking activities. Students will read multiple genres from world literature, as well as plan, draft, revise, and complete various types of written composition.

### **Honors English I, Grade 9**

Course #1021

1 Honors credit

*Prerequisite:* None

Honors English I is designed for the highly motivated, college-bound student. This course requires higher levels of understanding-such as the relationships and interpretations of ideas, literary analysis, and synthesis and evaluation of written materials. Refinement of grammatical usage and enrichment of vocabulary are stressed in oral and written compositions, including a research project. This in-depth, fast-paced study of world literature requires reading and writing outside the classroom, as well as a summer reading assignment.

### **English II, Grade 10**

Course #1012

1 credit

*Prerequisite:* English I

English II involves instruction in writing, grammar skills, and literature. Students enrolled in this course will continue to increase and refine their communication skills through reading, writing, and speaking activities. Students will read multiple genres from world literature, as well as plan, draft, revise, and complete various types of written composition, including a research project. Independent reading is required.

### **Honors English II, Grade 10**

Course #1022

1 Honors credit

*Prerequisite:* English I

Honors English II is designed to prepare students for college. This survey course extends and elaborates the foundations skills provided in Honors English I. Ability to problem-solve and employ higher level reasoning skills are required for this course. Students are expected to be advanced in reading, writing, and grammar skills. This fast paced course will require reading and writing outside the classroom, as well as summer reading.

### **English III, Grade 11**

Course #1013

1 credit

*Prerequisite:* English II

English III involves instruction in writing, grammar, and literature. This course is designed to prepare students for college through the study of American literature. Students will practice many forms of writing, including a research project. The study of vocabulary words will help prepare students for the SAT/ACT. Independent reading is required.

### **English IV, Grade 12**

Course #1014

1 credit

*Prerequisite:* English III

English IV involves instruction in writing, grammar skills, and literature. Students enrolled in this course will continue to increase and refine their communication skills through reading, writing, and speaking activities. Students will read multiple genres from British literature, as well as plan, draft, revise, and complete various types of written composition, including a research project.

**College Preparatory ELA Course, Grade 12**

1 credit

Course #1025

*Prerequisite:* English III

This course is for students at the 12th grade level whose coursework, college entrance examination scores, or Texas Success Initiative (TSI) assessment scores indicate that the student is not ready to perform entry-level college coursework. This course is designed to prepare students for success in entry-level college courses. Students will learn to investigate academic texts, construct supported interpretations and arguments for an authentic audience, and acquire academic habits of thought. Reading instruction will focus on developing critical reading skills for comprehension, interpretation, and analysis. In writing, students will develop skills through composing with specific purpose, situation, genre, and audience in mind. Students will write a variety of effective formal and informal texts. To learn to integrate reading and writing, students will use an inquiry approach to analyze, synthesize, and make value judgments regarding text and writing. This course is designed to prepare students for college-level reading and writing intensive courses. Successful completion of this course, as defined by the memorandum of understanding (MOU) with the partnering institution(s), grants the student an exemption to TSI requirements for reading and writing at the partnering institution(s).

**AP English Literature and Composition, Grade 11**

1 AP credit

Course #1023

*Prerequisite:* English II

AP English Literature and Composition is a study in literature and composition, which engages students in the careful reading and critical analysis of works of recognized literary merit. Reading in this course is wide and deep. Highly motivated students read deliberately and thoroughly, understating the work's complexity, absorbing its richness of meaning, and analyzing how the theme is embodied in the literary form. Extensive outside reading is required. Writing is an integral part of the AP English Literature and Composition course and exam. Writing assignments focus on the critical analysis of literature and include various forms. Throughout the course, emphasis is placed on helping students develop stylistic maturity, which is characterized by the following: a wide-ranging vocabulary used with accuracy, a variety of sentence structures, a logical organization, a balance of generalization and illustrative detail, and an effective use of rhetoric. Preparation for the AP English Literature and Composition course begins the summer before the course begins, with a mandatory summer reading assignment, which will constitute a portion of the student's first nine-weeks grade. At the conclusion of the course, students *may* elect to take the AP test, although taking the test is not required.

**AP English Language and Composition, Grade 12**

1 AP credit

Course #1024

*Prerequisite:* English II

AP English Language and Composition is designed as a college-level course in language and composition. This course is primarily a study of literature with a non-fiction emphasis. Serious-minded students move rapidly through studies in novels, essays, and short stories. Critical, analytical reading and writing skills are the core of this course. Because of time constraints, extensive independent reading is required. This course focuses on the reading of classic and contemporary works and on planning, drafting, and completing written compositions in a variety of forms. This course develops higher level thinking skills through challenging oral and written activities. Advanced vocabulary and research skills are developed. At the conclusion of this course, students may elect to take the College Board Advanced Placement Exam.

## Mathematics

### Freshmen Year:

#### **Honors Geometry, Grades 9 & 10**

1 Honors credit

Course #1308

*Prerequisite:* Algebra 1

In addition to the topics in Geometry, this course introduces logical argument and exposure to various types of proofs in order to develop logical thinking and problem solving skills. A strong foundation in algebra skills including solving equations, working with variables, solving systems of equations, and factoring is necessary for success in Honors Geometry. The level of instruction/curriculum will focus on preparing the student for advanced placement courses.

#### **Algebra 1, Grade 9**

1 credit

Course #1300

*Prerequisite:* None

Algebra 1 begins the study of functions. Functions represent the systematic dependence of one quantity on another. Students use functions to represent and model problem situations and to analyze and interpret relationships. Much of the coursework emphasizes the study of linear functions and their multiple representations (concrete, pictorial, numerical, symbolic, graphical, and verbal). Topics include solving and graphing equations, inequalities, systems of linear equations and quadratic equations and other nonlinear functions. End of Course (EOC) tested.

## Sophomore Year:

### **Honors Algebra 2**, Grades 10 & 11

1 Honors credit

Course #1311

*Prerequisite:* Algebra & Honors Geometry

In addition to the materials usually covered in Algebra 2, topics such as probability and statistics, matrices and determinants will be expanded. Emphasis will be placed on the application of concepts and skills introduced in Algebra 2. The level of instruction/curriculum will focus on preparing a student for advanced placement courses.

### **Honors Geometry**, Grades 9 & 10

1 Honors credit

Course #1308

*Prerequisite:* Algebra 1

In addition to the topics in Geometry, this course introduces logical argument and exposure to various types of proofs in order to develop logical thinking and problem solving skills. A strong foundation in algebra skills including solving equations, working with variables, solving systems of equations, and factoring is necessary for success in Honors Geometry. The level of instruction/curriculum will focus on preparing the student for advanced placement courses.

### **Algebra 2**, Grades 10-12

1 credit

Course #1307

*Prerequisite:* Algebra 1 & Geometry

A continuation of the topics studied in Algebra 1, this course will extend the development of the real number system and will include a study of the complex numbers as a mathematical system. Students will study the ideas of relations and functions and expand the concept of quadratic functions and introduce the concepts of rational, square root, exponential and logarithmic functions. Emphasis will also be placed on the analysis of conic concepts and the development of additional problem solving skills and applications.

### **Geometry**, Grade 10

1 credit

Course #1303

*Prerequisite:* Algebra 1

Geometry consists of the study of one, two, and three dimensions and the relationships having to do with size, shape, location, direction, and orientation of these figures. The students use a variety of representations, tools, and technology to solve meaningful problems. Topics will include congruency, similarity, dimensionality, and patterning of all geometric figures.

## Junior Year

### **Pre-Cal**, Grades 11 & 12

1 AP credit

Course #1309

*Prerequisite:* Algebra 1, Honors Geometry & Honors Algebra 2

Pre-Calculus is for students with appropriate prerequisites and is an ideal math course for college bound students. Pre-Calculus combines Trigonometry and Elementary Analytic Geometry to provide a foundation for advanced math courses. The next math class should be Calculus. Students should seek direction from their current math teacher prior to enrolling in this course.

### **HJ College Algebra, (not a dual credit)** Grades 11 & 12

1 Honors credit

Course #1315

*Prerequisite:* Algebra 1, Geometry, Algebra 2

College Algebra is for students with appropriate pre-requisite and is the ideal math course for college bound students. College Algebra combines concepts from College Algebra and College Business Mathematics. **A student may take a CLEP test at the conclusion of this course for college credit.**

### **Honors Algebra 2**, Grades 10 & 11

1 Honors credit

Course #1311

*Prerequisite:* Algebra 1 & Honors Geometry

In addition to the materials usually covered in Algebra 2, topics such as probability and statistics, matrices and determinants will be expanded. Emphasis will be placed on the application of concepts and skills introduced in Algebra 2. The level of instruction/curriculum will focus on preparing a student for advanced placement courses.

### **Algebra 2**, Grades 10-12

1 credit

Course #1307

*Prerequisite:* Algebra 1 & Geometry

A continuation of the topics studied in Algebra 1, this course will extend the development of the real number system and will include a study of the complex numbers as a mathematical system. Students will study the ideas of relations and functions and expand the concept of quadratic functions and introduce the concepts of rational, square root, exponential and logarithmic functions. Emphasis will also be placed on the analysis of conic concepts and the development of additional problem solving skills and applications.

### **Algebraic Reasoning**, Grade 11

1 credit

Course #1321

*Prerequisite:* Algebra 1, Geometry & must take before Algebra 2

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

### **Statistics & Business Decision Making**, Grades 11 & 12

1 credit

Course #1314

*Prerequisite:* Algebra I, Geometry & Algebra 2

Statistics & Business Decision Making teaches how to use statistical tools to analyze business data, identify trends, forecast outcomes & make informed decisions, covering data description, risk assessment & problem-solving in real-world scenarios.

### **Financial Math**, Grade 11 & 12

1 credit

Course #1322

*Prerequisite:* Algebra 1, Geometry & must take before Algebra 2

Financial Mathematics is a course about personal money management. Students will apply critical thinking skills to analyze personal financial decisions based on current and projected economic factors. Teacher recommendation is preferred.

## Senior Year:

### **Calculus, Grade 12**

1 AP credit

Course #1310

*Prerequisite:* Pre-Calculus

AP Calculus is the mathematics of motion and change with applications involving economics, business and life science, as well as science and engineering. This high level math is ideal for students who intend to major in engineering, physical therapy, economics, pre-vet or pre-med. Topics of student will be selected from limits and continuity, the derivative, the fundamental theorem of calculus, special functions, techniques of integration, partial derivatives and multiple-integration. **A student may take a CLEP test at the conclusion of this course for college credit.**

### **Pre-Cal, Grades 11 & 12**

1 AP Credit

Course #1309

*Prerequisite:* Honors Geometry and Honors Algebra 2

Pre-Calculus is for students with appropriate prerequisites and is an ideal math course for college bound students. Pre-Calculus combines Trigonometry and Elementary Analytic Geometry to provide a foundation for advanced math courses. The next math class should be Calculus. Students should seek direction from their current math teacher prior to enrolling in this course.

### **HJ College Algebra, (not a dual credit )Grades 11 & 12**

1 Honors credit

Course #1315

*Prerequisite:* Algebra 2

College Mathematics Preparation is for students with appropriate pre-requests and is the ideal math course for college bound students. College prep math combines concepts from College Algebra and College Business Mathematics. **A student may take a CLEP test at the conclusion of this course for college credit.**

### **Algebra 2, Grades 10-12**

1 credit

Course #1307

*Prerequisite:* Algebra 1 & Geometry

A continuation of the topics studied in Algebra 1, this course will extend the development of the real number system and will include a study of the complex numbers as a mathematical system. Students will study the ideas of relations and functions and expand the concept of quadratic functions and introduce the concepts of rational, square root, exponential and logarithmic functions. Emphasis will also be placed on the analysis of conic concepts and the development of additional problem solving skills and applications.

### **Financial Math, Grade 11 & 12**

1 credit

Course #1322

*Prerequisite:* Algebra 1, Geometry and must take before Algebra 2

Financial Mathematics is a course about personal money management. Students will apply critical thinking skills to analyze personal financial decisions based on current and projected economic factors. Teacher recommendation is preferred.

### **Statistics & Business Decision Making, Grades 11 & 12**

1 credit

Course #1314

*Prerequisite:* Algebra I, Geometry & Algebra 2

Statistics & Business Decision Making teaches how to use statistical tools to analyze business data, identify trends, forecast outcomes & make informed decisions, covering data description, risk assessment & problem-solving in real-world scenarios.

## Social Studies

### **World Geography, Grades 9-12**

1 credit

Course #1500

*Prerequisite:* None

World Geography will allow students to explore the climate, environment, resources, and cultures of the world. In addition, the five themes of geography will be studied throughout the year, including location, people, environment relations, movement, and region.

### **Honors World Geography, Grade 9-12**

1 credit

Course #1501

*Prerequisite:* None

Honors World Geography will allow students to explore the climate, environment, resources, and cultures of the world in depth. In addition, the five themes of geography will be studied throughout the year, including location, people, environment relations, movement, and region. Students should expect to gain knowledge from reading the textbook, taking lecture notes, and providing quality participation in classroom discussion. An effort surpassing that of regular classes is required. Several essays and projects will be required.

### **World History, Grade 10**

1 credit

Course #1502

*Prerequisite:* None

World History Studies provides students the opportunity to compare and analyze various ways of life and cultural patterns that reflect the diversity and commonality of human experiences. Content includes the development of early civilizations, western civilization, and other world regions from their early days to present.

### **Honors World History, Grade 10**

1 Honors credit

Course #1503

*Prerequisite:* None

Honors World History is an advanced look at world history. This course is a more in-depth study of history than the regular course. Students should expect to gain knowledge from reading the textbook, taking lecture notes, and providing quality participation in classroom discussion. An effort surpassing that of regular classes is required. Several essays and projects will be required.

### **U.S. History Studies Since Reconstruction, Grade 11**

1 credit

Course #1504

*Prerequisite:* None

U.S. History Since Reconstruction emphasizes our nation's economic, social, and political development since Reconstruction to the present.

### **AP U.S. History, Grade 11**

1 AP credit

Course #1505

*Prerequisite:* None

AP US History is a much more in-depth study of American History than is the regular course. The bulk of concentration will be on the period from Reconstruction to the present, but, in order to properly prepare for the AP U.S. History Exam, quality time will also be spent on colonial times through the Civil War. The exam can qualify students for college credit. Several essays, research, and quality class participation are required.

### **Government, Grade 12**

.5 credit

Course #1507

*Prerequisite:* None

U.S. Government examines the history and workings of the United States and state government. This one semester course is taught in conjunction with Economics.

### **AP Government & Politics, Grade 12**

.5 AP credit

Course #1509

*Prerequisite:* None

AP US Government & Politics examines the history and workings of the U.S. national, state, and local government. Comparisons with other national governments are also made. Several essays are required. This class is weighted for class ranking purposes. This one semester course is taught in conjunction with AP Micro. **A student may take a CLEP test at the conclusion of this course for college credit.**

**Economics**, Grade 12

.5 credit

Course #1508

*Prerequisite:* None

Economics surveys U.S. and foreign economics systems. This one semester course is taught in conjunction with U.S. Government.

**Personal Financial Literacy**, Grade 12

.5 credit

Course #

*Prerequisite:* None

Personal Financial Literacy is a one-semester economics course that emphasizes economic reasoning and how this thinking serves as a framework for the personal financial decision-making. Students will demonstrate the ability to apply fundamental concepts of micro and macroeconomics to anticipate and address financial challenges during different phases of life. By connecting their financial decision-making to economic concepts and contexts, students will demonstrate critical thinking, explore ways to invest in education and skill development, and analyze the impact of personal financial management on standard of living, wealth building, and economic growth and prosperity.

**AP Microeconomics**, Grade 12

.5 AP credit

Course #1510

*Prerequisite:* None

AP Microeconomics gives students a thorough understanding of the principles of economics that apply to the functions of individual decision makers, both consumers and producers, within the economic system. Several essays are required. An exam at the end of the year may offer successful students college credit. This class is weighted for class ranking purposes. This one semester course is taught in conjunction with AP U.S. Government and Politics. **A student may take a CLEP test at the conclusion of this course for college credit.**

**AP Psychology/Special Topics**, Grades 11-12

.5 AP credit/.5 Honors credit

Course #1517

*Prerequisite:* None

AP Psychology is a one semester course where students will study the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are introduced to the psychological facts, principles, and phenomena associated with each of the major subfields of psychology as well as scientific methods and practice. The AP Psychology Exam is an optional test at the end of this course. This course is offered second semester in conjunction with Special Topics first semester. AP Psychology is .5 AP credit and Special Topics is .5 Honors credit. **A student may take a CLEP test at the conclusion of this course for college credit.**

## Science

### **Integrated Physics and Chemistry, Grade 9 or 10**

1 credit

Course #1406

*Prerequisite:* None

Integrated Physics and Chemistry is the study of matter and energy. Principles basic to physics and chemistry are explored in the classroom and the laboratory to learn concepts such as properties of matter, units of measure, types of energy, and behavior of elements. This course requires 40% laboratory instruction.

### **Biology, Grade 10**

1 credit

Course #1401

*Prerequisite:* None

Biology is the study of all living things and their relationship to each other. This includes single-celled organisms, as well as man and his environment. This course requires 40% laboratory instruction.

### **Honors Biology, Grade 9 or 10**

1 Honors credit

Course #1400

*Prerequisite:* None

Honors Biology is the study of all living things and their relationship to each other. This course will cover a broader depth of the topics in Biology to help prepare students for AP Biology. This course requires 40% laboratory instruction.

### **Honors Chemistry, Grade 10 or 11**

1 Honors credit

Course #1404

*Prerequisite:* Biology

Honors Chemistry is a college preparatory science course. Students will be well grounded in a study of chemicals and their reactions with each other. They will learn many rules for predicting products and be able to successfully compute chemical reactions. This course requires 40% laboratory instruction.

### **Chemistry, Grade 10 or 11**

1 credit

Course #1403

*Prerequisite:* Biology

Chemistry is the study of matter with focus on atoms, the periodic table, bonding, and chemical reactions. This course requires 40% laboratory instruction.

### **Physics for Engineering, Grade 11**

1 credit

Course #1015

*Prerequisite:* Algebra 1

Physics covers the effects on and properties of moving objects, physical changes, and the different forms of energy such as heat, light, and electricity. It covers mechanical advantage and efficiency of machines. This course requires 40% laboratory instruction.

### **AP Biology, Grades 11&12**

1 AP credit

Course #1402

*Prerequisite:* Biology or Honors Biology & Chemistry

AP Biology is designed to be the equivalent of a college introductory biology course. This course will enable students to develop a conceptual framework and an appreciation of science as a process. The course will be 35% chemistry/cells, 20% cell cycles and processes, 10% genetics, and 35% Natural Selection/ Ecology. This course requires 40% laboratory instruction. **The class will be taught as if the expectation is that the students will be taking the CLEP or AP exam.** Expect to do notes/activities outside of class weekly.

**AP Chemistry**, Grades 11&12

1 AP credit

Course #1405

*Prerequisite:* Honors Chemistry & Algebra 2

AP Chemistry is designed to be a fast-paced, college-level chemistry class. In order to insure proper placement in the class and level of success in the course, the students will be given a summer assignment and will be required to pass a test at the end of the first week of school. Students will have the opportunity to take the Advanced Placement test in chemistry for college credit in this course. Extensive lab time (40% or more) is necessary and may require class work at times other than the regular school day.

**Anatomy and Physiology of Human Systems**, Grades 10-12

1 Honors credit

Course #2104

*Prerequisite:* Biology & Chemistry

Anatomy and Physiology students conduct laboratory investigations and fieldwork, use the scientific method during investigations, and make informed decisions using critical thinking and problem solving. Students in Anatomy and Physiology of Human Systems study the structures and functions of the human body and body systems and will investigate the body's responses to forces, maintenance of homeostasis, electrical interactions, transport systems, and energy processes.

**Engineering Science (Rocket Class I)**, Grades 11&12

1 Honors credit

Course #1412

*Prerequisite:* Principles of Applied Engineering, Algebra 1 & Biology

Rocket Class I. This class builds on Rocket II. It is designed for students to gain experience with hands-on research through design and development projects within the engineering industries. This approach cultivates valuable life skills such as critical thinking, problem solving, testing and analysis, documentation and reporting, project management, teamwork and communication. **This course satisfies a high school science graduation requirement & requires a supply fee.**

**Engineering Design and Problem Solving (Rocket Class II)**, Grades 11 & 12

1 Honors credit

Course #1411

*Prerequisite:* Principles of Applied Engineering, Algebra 1 & Geometry

Rocket Class II 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. **This course satisfies a high school science graduation requirement & requires a supply fee.**

**Scientific Research & Design (Rocket Class III)**, Grades 12

1 Honors credit

Course #1414

*Prerequisite:* Principles of Applied Engineering, Rocket I, Rocket II,

Biology, Chemistry, & IPC or Physics (can enroll concurrently with Physics)

Rocket Class III is designed for students to gain experience with hands-on research through design and development projects within the engineering industries. This approach cultivates valuable life skills such as critical thinking, problem solving, testing and analysis, documentation and reporting, project management, teamwork and communication. Students will work towards building a transonic rocket. **This course satisfies a high school science graduation requirement & requires a supply fee.**

## Athletics & Physical Education

**Physical Education**, Grades 9-12

1 credit

Course #2250

*Prerequisite:* None

Physical Education is designed to promote physical fitness and connect lifetime fitness skills and health related concepts. It will incorporate daily fitness activities.

**Athletics**, Grades 9-12

1 credit

Course #2255

*Prerequisite:* Coach Approval

Athletic is offered only to those students who want to participate in Volleyball, Basketball, Football, Baseball, Softball, and Soccer. Each course emphasizes physical fitness while developing skills in a particular sport.

**Golf Athletics**, Grades 9-12

1 credit

Course #2259

*Prerequisite:* Coach Approval

Golf Athletics requires participation in a UIL sport and practice after school at Idlywild Golf Course. Students must provide their own set of clubs and demonstrate a willingness to practice and improve skills. Some experience necessary. **Try-outs are required with the golf coach prior to August 15<sup>th</sup>. You will have to provide your own transportation.**

# Career and Technology Education

## Agricultural, Food, and Natural Resources Animal Science Program of Study

**Principles of Agriculture, Food, and Natural Resources**, Grades 9-12 1 credit  
Course #1800 *Prerequisite:* None

Prin. of Agriculture, Food, and Natural Resources prepares students for careers in agriculture, food, and natural resources. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for success, students need to have opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.

**Livestock Production**, Grades 9-12 1 credit  
Course # 1801 *Prerequisite:* None

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

**Entrepreneurship**, Grades 9-12 1 credit  
Course # 9087 *Prerequisite:* None

Entrepreneurship 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.

**Advanced Animal Science**, Grades 11 & 12 1 credit  
Course #1803 *Prerequisite:* None

Advanced Animal Science prepares students for careers in the field of animal science, by developing knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. This course also counts as a Science credit. **Industry Based Certifications available.**

**Principles of Floral Design, Grades 9-12**

1 credit

Course #1808

*Prerequisite:* None

Principles of Floral Design is designed to prepare students for careers in floral design. Students need to attain academic skills and knowledge as well as technical knowledge and skills related to horticultural systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises.

## **Manufacturing Welding Program of Study**

### **Introduction to Welding, Grade 10-12**

1 credit

Course #1820

*Prerequisite:* None

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

### **Welding I, Grades 11-12**

2 credits

Course #1821

*Prerequisite:* Intro. to Welding

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

### **Welding II, Grade 12**

2 credits

Course #1822

*Prerequisite:* Intro. to Welding & Welding I

Welding II builds on the knowledge and skills developed in Welding I. Students will develop advanced welding concepts and skills as related to personal and career development. Students will integrate academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. **Industry Based Certifications available.** Required application; teacher selects students for course.

**Arts, Audio Visual Technology, and Communications**  
**Digital Communications Program of Study**

**Principles of Arts, A/V Technology, and Communications**, Grades 9-12 1 credit

Course #1600

*Prerequisite:* None

Principles of Arts, A/V Technology, and Communications The goal of this course is for students to understand arts, audio/video technology, and communications systems. Topics include: audio/video production, use of technology applications, video game design, animation, and more.

**Audio/Video Production I**, Grades 10-12 1 credit

Course #1607

*Prerequisite:* Prin. of Arts, A/V Technology, and Communications

This class will cover basic video editing, special effects, layouts, lighting, and other skills needed to make a quality looking video. Students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video products. Students will adapt language for audience, purpose, situation, and intent through structure and style; organize oral and written information; interpret and communicate information, data, and observations; deliver formal and informal presentations; apply active listening skills; listen to and speak with diverse individuals; and exhibit public relations skills. **Industry Based Certifications available.**

**Audio/Video Production II**, Grades 10-12 1 credit

Course #1609

*Prerequisite:* Audio/Video Production I

Audio/Video Production II students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production products. This course may be implemented in an audio format or a format with both audio and video.

**Entrepreneurship**, Grades 9-12 1 credit

Course # 9087

*Prerequisite:* None

Entrepreneurship 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.

## **Business, Marketing, and Finance** **Marketing & Sales Program of Study**

**Principles of Business, Marketing and Finance, Grades 9-12** 1 credit

Course #1613 *Prerequisite: None*

Principles of Business, Marketing, and Finance students gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills from their core scholastic classes to a variety of interesting and relevant activities, projects, problems and settings in business, marketing, and finance.

**Entrepreneurship, Grades 10-12** 1 credit

Course # 9087 *Prerequisite: None*

Entrepreneurship 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.

**Sports & Entertainment Marketing I, Grades 10-12** .5 credit

Course #1318 *Prerequisite: None*

Sports & Entertainment Marketing introduces foundational marketing concepts (product, price, place, promotion) applied to the sports & entertainment industries, focusing on building essential skills for careers in this booming field, covering areas like sales, advertising, events, sponsorships, and digital promotion. Students learn core marketing functions, explore industry trends, understand consumer behavior, and develop hands-on readiness for roles in teams, venues, agencies, and related businesses. Taken with Virtual Business

**Virtual Business, Grades 10-12** .5 credit

Course #1621 *Prerequisite: None*

Virtual Business teaches students how to start a virtual business by creating a web presence, conducting marketing, examining contracts appropriate for an online business & demonstrating project management skills. This one semester course is taught in conjunction with Advertising.

**Social Media Marketing, Grades 10-12** .5 credit

Course #1304 *Prerequisite: None*

Social Media Marketing teaches students foundational SMM principles, platform specifics (FB, Insta, YouTube, etc.), content creation, audience targeting, data analytics, ethics, and career skills (communication, teamwork) to build effective digital campaigns for businesses, focusing on real-world application and industry standards. Students learn to strategize, manage platforms, measure ROI, and prepare for certifications, understanding social media's role in the broader marketing mix. **Industry Based Certifications available.** Taken with Sports & Entertainment Marketing II.

**Sports & Entertainment Marketing II**, Grades 10-12

.5 credit

Course #1301

*Prerequisite:* Sports & Entertainment

Marketing

Sports & Entertainment Marketing is an advanced study building on foundational concepts, delving deeper into branding, sponsorships, endorsements, and promotions for sports/entertainment, focusing on management principles (leadership, finance, sales), ethical issues, and career development, using real-world examples to prepare students for industry careers through hands-on projects.

**Statistics & Business Decision Making**, Grades 11 & 12

1 credit

Course #1314

*Prerequisite:* Algebra I, Geometry & Algebra 2

Statistics & Business Decision Making teaches how to use statistical tools to analyze business data, identify trends, forecast outcomes & make informed decisions, covering data description, risk assessment & problem-solving in real-world scenarios.

## Health Science

### **Principles of Health Science, Grades 9-12**

1 credit

Course #2101

*Prerequisite:* None

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

### **Medical Terminology, Grades 10-12**

1 credit

Course #2105

*Prerequisite:* None

Medical Terminology 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, Grades 11-12**

1 Honors Credit

Course #2104

*Prerequisite:* Biology & Chemistry

Anatomy and Physiology students conduct laboratory investigations and fieldwork, use the scientific method during investigations, and make informed decisions using critical thinking and problem solving. Students in Anatomy and Physiology of Human Systems study the structures and functions of the human body and body systems and will investigate the body's responses to forces, maintenance of homeostasis, electrical interactions, transport systems, and energy processes. This course also counts as a fourth Science credit.

### **Health Science Theory, Grade 12**

1 credit

Course #2107

*Prerequisite:* Principles of Health Science & Biology

Health Science Theory will progress from what was learned in Principles of Health Science at a more advanced level, and students are prepared for advanced courses. Students will also learn advanced levels of Anatomy & Physiology, Medical Ethics and Legal Aspects in Medicine, advanced levels of Patient Assessment & Care including Temperature, Pulse, Respiration & Blood Pressure. **Required \$25 fee that covers supplies. Industry Based Certifications available.**

## **Hospitality and Tourism** **Culinary Arts Program of Study**

**Introduction to Culinary Arts**, Grades 9-12 1 credit

Course #1702

*Prerequisite: None*

Introduction to Culinary Arts will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This is an entry level course for students interested in pursuing a career in the food service industry. **Required \$25 fee that covers supplies.**

**Event and Meeting Planning**, Grades 10-12 1 credit

Course # 1704

*Prerequisite: None*

Introduction to Event and Meeting Planning acquaints students with the common components of well executed meetings and events. This course covers site selection, food and beverage, audio visual, contracts, an overview of the industry, and career possibilities. It focuses on a comprehensive understanding of the fundamentals of the meetings, conventions, events, and exposition industries. It also focuses on the management, marketing, and operations of restaurants and other food/beverage services, lodging, attractions, recreation events, and travel-related services. **Required \$25 fee that covers supplies.**

**Food Science**, Grades 11-12 1 credit

Course #1316

*Prerequisite: None*

Food Science explores the science behind food, covering chemistry, microbiology, and processing to understand production, safety, and quality, using scientific methods for hands-on labs in areas like preservation (Maillard reaction, fermentation), packaging, and sanitation, preparing students for careers in agriculture, health, and food service. **Industry Based Certifications available.**

**Entrepreneurship**, Grades 10-12 1 credit

Course # 9087

*Prerequisite: None*

Entrepreneurship 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.

## Law and Public Service

**Principles of Law, Public Safety, Corrections, and Security**, Grades 9-12 1 credit

Course #1630

*Prerequisite:* None

This course focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. It introduces students to professions in law enforcement, protective services, corrections, firefighting, and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, protective services, and corrections. Students will identify the roles and functions of public safety professional, court systems, correctional systems, private security systems and agencies and fire protection services.

**Law Enforcement I**, Grades 10-12

1 credit

Course #1631

*Prerequisite:* None

This course is an overview of the history, organization and functions of local, state and federal law enforcement. Students will understand the role of constitutional law at local, state and federal levels, the U.S. legal system, criminal law, law enforcement terminology and the classification and elements of crimes.

**Law Enforcement II**, Grades 11-12

1 credit

Course #1632

*Prerequisite:* Law Enforcement I

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

**Criminal Investigations**, Grades 10-12

1 credit

Course #1633

*Prerequisite:* None

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

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

### **Principles of Applied Engineering, Grades 9-12**

1 credit

Course #1410

*Prerequisite:* None

Principles of Applied Engineering 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 have an understanding of 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.

### **Engineering Science (Rocket Class I), Grades 10-12**

1 Honors credit

Course #1412

*Prerequisite:* Algebra 1 & Biology

Rocket Class I. This class builds on Rocket II. It is designed for students to gain experience with hands-on research through design and development projects within the engineering industries. This approach cultivates valuable life skills such as critical thinking, problem solving, testing and analysis, documentation and reporting, project management, teamwork and communication. **This course satisfies a high school science graduation requirement & requires a supply fee.**

### **Engineering Design and Problem Solving (Rocket Class II), Grades 11 & 12**

1 Honors credit

Course #1411

*Prerequisite:* Algebra 1 & Geometry

Rocket Class II 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. **This course satisfies a high school science graduation requirement & requires a supply fee.**

### **Scientific Research & Design (Rocket Class III), Grade 12**

1 Honors credit

Course #1414

*Prerequisite:* Rocket I, Rocket II, Biology & Chemistry

Rocket Class III is designed for students to gain experience with hands-on research through design and development projects within the engineering industries. This approach cultivates valuable life skills such as critical thinking, problem solving, testing and analysis, documentation and reporting, project management, teamwork and communication. Students will work towards building a transonic rocket. **This course satisfies a high school science graduation requirement & requires a supply fee. Industry Based Certifications available.**



## Vocational Work Experience

### **Career Preparation, Grade 12**

Course #1997

3 credits

*Prerequisite:* Teacher approval based upon the following criteria:

- At least 90% attendance
- Must have 19 credits to date
- Recommended to pass all STAAR/EOC exams
- Must complete an application and teacher interview **before** the first day of school.
- Contract signed by parent, student, and teacher **must** be on file.
- Students **must** have a job before the first day of school.

Career Preparation is an instructional program that will provide students the opportunity to explore career options through cooperative work-based learning while receiving related classroom instruction in workplace readiness skills and occupationally-specific, technical-related study. Students may enter in any of the following areas: Agriculture, Business, Family and Consumer Science, Trade, Industrial, or Health Science Technology. All students must have completed a coherent sequence of courses (at least 2.5 credits) to be placed in particular area of employment.

**This course is a full year course. Students may not enter this course at the semester.**

All students must assume the responsibility of knowing and following all work-study guidelines. In order to receive credit, a student must complete two semesters, have a passing grade, and attend class each day. No partial credit will be given.

**NOTE:** If the vocational work experience parent/student contract is not on file on the first day of instruction, the student will be removed from the class.

### **Practicum in Entrepreneurship, Grade 12**

Course #

3 credits

Practicum in Entrepreneurship provides supervised, real-world experience for high schoolers, applying business skills to develop and manage their own ventures or assist existing ones, focusing on business planning, market analysis, financial management, and marketing.

## Fine Arts

**Theatre Arts I**, Grades 9-12 1 credit  
Course #2016 *Prerequisite:* None

Theatre Arts I involves the fundamentals and history of drama, as well as acting and participating in every aspect of play production from lighting and building sets to applying makeup and creating costumes. After school practice/rehearsal hours will be required during production.

**Advanced Theatre Arts (Theatre Arts II, III, & IV)**, Grades 10-12 1 credit  
Course #2017 *Prerequisite:* Theater Arts I

Advanced Theatre Arts Offered to students who want to further their theatrical skills through work in acting, directing, and theater heritage. Basic principles of production are studied and applied through performances in various theatrical applications. Students will also use techniques and methods in organization, scriptwriting, editing and critique. Production work required. Enrollment in the course constitutes agreement to fulfill all curricular, co-curricular, and extra-curricular requirements.

**Art Level I**, Grades 9-12 1 credit  
Course #2001 *Prerequisite:* None

Art I students will begin to use their environment as a source for creating artworks and express themselves through a variety of art media. Students will learn basic art concepts with a focus on the art elements and design principles. Students will appreciate art history and cultural influences. Drawing is the foundational skill to all other forms of art and will be heavily influenced. Drawing will be basic and developmental. **Supplies are required.**

**Art Level II (Painting II)**, Grades 10-12 1 credit  
Course #2002 *Prerequisite:* Art Level I

Art II/Painting II students will continue creative expression with an emphasis placed on the different stages of the painting process from thumbnail sketch through finished painting. Color value and color mixing will be emphasized. Students will explore the mediums of watercolor, tempera, acrylic, and oil paint. They will extend their understanding of basic art concepts, apply the elements and principles through an art history approach in their artworks, use a precise art vocabulary, and explore careers in art. **Supplies are required & will cost approximately \$25.**

**Art Level III**, Grades 11-12 1 credit  
Course #2003 *Prerequisite:* Art Level I, Art Level II, Teacher Approval

Art III students will expand on their knowledge of their environment and ability to creatively express themselves. Various paint media and techniques will be explored further. Students will use a precise art vocabulary, study areas of art history, research art careers, and develop art criticism skills. Students will produce personal themed artworks and have more flexibility in solving problems in their works. **Supplies are required & will cost approximately \$25.**

**Art Level IV**, Grade 12 1 credit  
Course #2004 *Prerequisite:* Art Level I, Art Level II, Art Level III, Teacher Approval

Art IV students will produce a body of work to be presented as their senior art portfolio. Students will produce self-directed, personal themed artworks through a large variety of 2-D and 3-D art media, techniques, and processes. Students will use a precise art vocabulary, research contemporary artists and art careers of personal interest, and develop independent studio production skills necessary for future college education and/or career in art. Art criticism and art history will be integrated throughout the course. **Supplies are required & will cost approximately \$25.**

**Band, Grades 9-12**

Course #2008	9th grade
Course #2009	10th grade
Course #2010	11th grade
Course #2011	12th grade

1 credit

*Prerequisite:* Band program

Band is composed of both marching and concert performances; this includes all Friday night football games, etc.. Previous experience within a band program is required, with director discretion. Marching band involves summer practices, morning practices during school, as well as afternoon practices during football season. After school concert band rehearsal is limited to a few times ahead of the UIL concert contest and in the spring. Band students participate in individual, small ensemble, and full band UIL, TMEA & ATSSB contests, concerts, and community parades. All performances are required attendance events and are a major test grade. All rehearsals are required attendance events, as well. Any absences will be handled on an individual basis by the director.

**Jazz Band, Grades 9-12**

1 credit

Course #

*Prerequisite:* Band program & concurrent enrollment in band

Jazz Band is full year course that is open to all Band students regardless of instrument. Primary Jazz instruments are Trumpet, Saxophones, Trombone. The course will focus on learning the various styles, as well as jazz theory and improvisation. Students playing wind instruments **MUST** be enrolled in the traditional band class. The rhythm section is open to all students that play bass guitar, lead electric, piano or drum-set. Guitarists must have their own instrument & are not required to be concurrently enrolled in band. Minimum 1 year of band instruction required for all wind instruments.

**Principles of Floral Design, Grades 9-12**

1 credit

Course #1808

*Prerequisite:* None

Principles of Floral Design is designed to prepare students for careers in floral design. Students need to attain academic skills and knowledge as well as technical knowledge and skills related to horticultural systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. **Industry Based Certifications available.**

## Foreign Language

### **Spanish I**, Grades 9-12

1 credit

Course #1206

*Prerequisite:* None

Spanish I is an introduction to the Spanish language. Basic vocabulary and sentence structure are introduced. This is a grammar-based course which emphasizes the acquisition and development of basic Spanish language grammar concepts through reading, writing, speaking, and listening. Beginning oral communication skills and cultural knowledge are also developed in this course.

### **Spanish II**, Grades 9-12

1 credit

Course #1207

*Prerequisite:* Spanish I

Spanish II builds on the foundational vocabulary, reading, writing, speaking, and listening skills acquired in Spanish I, emphasizing the development of more complex grammar and communication skills. The student will develop an understanding of the interrelationship of languages and peoples as the history and culture of Latin America is studied.

### **Spanish III**, Grades 10-12

1 Honors credit

Course #1208

*Prerequisite:* Spanish II

Spanish III emphasizes communication skills while reinforcing and building on the reading, writing, speaking and listening skills acquired in Spanish I and II. This course introduces the student to Spanish literature, advanced grammar concepts, more specific vocabulary, and the cultural elements of Spain. A minimum grade average of 80 in Spanish II is strongly recommended. Teacher approval and signature required.

### **Spanish IV**, Grades 11-12

1 Honors credit

Course #1209

*Prerequisite:* Spanish III

Spanish IV is a practical application course which exposes the student to real-life conversational skills by means of situational dramas, skits, and numerous opportunities to interact with authentic speakers. Spanish literature readings and a review of grammar principles are also included in the course. A minimum grade average of 80 in Spanish III is strongly recommended. Teacher approval and signature required.

## Miscellaneous Electives

**Yearbook**, Grades 11-12

1 credit

Course #2401

*Prerequisite:* Approved Application/Interview

Yearbook involves planning a sales campaign, learning the essentials of layout design, and cooperating with others to produce a record of the school year. This course requires activity outside of class time, as well as Saturday workshops. Attention to detail, organization, and teamwork commitment are important qualities in a yearbook staffer. Students are selected based on written expression skills, creativity, and teacher recommendation on work ethic. The first semester is a trial period. Application and interview required.

**Yearbook II**, Grades 11-12

1 credit

Course #2402

*Prerequisite:* Approved Application

Second year of yearbook.

**Peer Assistance and Leadership (PALS)**, Grades 11-12

1 credit

Course # 2405

*Prerequisite:* Interview & Teacher Approval

Peer Assistance and Leadership is a course for juniors and seniors who exhibit superior communications skills. Students must perform community projects, keep a weekly journal, and establish rapport with others. PALS are paired with Sour Lake Elementary students. Good relationships with young children must be evident. Application is required.

**Office/Counselor/Library Aide/Classroom Aide**, Grade 12

Non-Graded Course

Course #2430

This course is designed to be a “hands on” experience in an office setting. General filing, phone answering, and copying skills will be taught. You may not have ISS or DAEP placements during your junior year. **This is a selection process.**