

Hardin-Jefferson High School



COURSE SELECTION Guide

2023—2024

Courses presented in this publication are those offered for the 2023-2024 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.

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.

February 2023

Dear Parents,

The purpose of the Course Selection Bulletin 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) 981-6430 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

Helping achieve greatness

Accountability in all endeavors

Winning as a tradition

Knowledge through experience

Spirit in competition

Contact Information

Mailing Address:

HJHS
PO Box 639
Sour Lake, Texas 77659

Phone:

409-981-6430

Fax:

409-287-2558 Main Office
409-287-4290 Counseling Office

Physical Address:

3155 HWY 326
Sour Lake, TX 77659



HJHS Administrative Staff

Principal
Assistant Principal
Counselor Class of 2024 & 2026
Counselor Class of 2025 & 2027
Athletic Director
Registrar
Principal's Secretary
Assistant Principal's Secretary
Counselor's Secretary
Nurse
Attendance Clerk

Patrick Brown	X 2103
Tyree Saunders	X 2105
Stephanie McLeod	X 2108
Rachel Cordova	X 2109
Dwayne Dubois	X 2116
Kristin Brown	X 2110
Paige Brown	X 2102
Lulanda Jackson	X 2101
Tracy Coates	X 2107
Dayna Hilton	X 2106
Janyce Baack	X 2112

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.
-

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.

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	

Semester and Final Exam Exemption Policy

Fall Semester all students will take all semester exams.

Spring Semester Final Exams

All Core Classes:

Students must:

- Pass all STAAR exams up to date
- Pass each quarter of spring semester
- Not have been assigned ISS, OSS or DAEP
- Clear ALL debts
- *More details released later in the spring regarding absences

Elective Classes:

- Pass all core subject classes
- Meet all of the criteria listed above (under ALL Core Classes)
- Maintained an 80 or above average in the elective class for the spring semester

**Students who start at HJ after the first nine weeks are not eligible to be exempt from any exams.

***Students who wish to improve their overall average in any class may elect to take the final. The exam grade will only be used if it improves the current average.**

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. 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 Psychology

AP English IV

AP Chemistry

AP US History

AP Physics

AP Government

AP Calculus

AP Macroeconomics

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

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 (test administered January 11, 2021 and beyond):

- 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

1 credit

Course #1011

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

1 Honors credit

Course #1021

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

1 credit

Course #1012

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

1 Honors credit

Course #1022

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

1 credit

Course #1013

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

1 credit

Course #1014

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.

Algebra 1 with Lab, Grade 9

2 credits

Course #1305

Prerequisite: Teacher Recommendation

Algebra 1 with Lab is a two period course with the same standards maintained in the regular Algebra 1 course. This course will count as one math credit and one local elective credit. The lab portion is an elective credit.

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.

College Preparatory Math, Grades 11 & 12

1 credit

Course #1317

Prerequisite: Algebra I, Geometry & Algebra 2

A study of relations and functions, inequalities, algebraic expressions and equations (absolute value, polynomial, radical, rational), with a special emphasis on linear and quadratic expressions and equations. PREREQUISITES: Algebra I and Geometry and has met the passing standard on the Algebra I EOC.

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.

College Preparatory Math, Grades 11 & 12

1 credit

Course #1316

Prerequisite: Algebra 1, Geometry & Algebra 2

A study of relations and functions, inequalities, algebraic expressions and equations (absolute value, polynomial, radical, rational), with a special emphasis on linear and quadratic expressions and equations. PREREQUISITES: Algebra 1 and Geometry and has met the passing standard on the Algebra 1 EOC.

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.

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 Macroeconomics, Grade 12

.5 AP credit

Course #1511

Prerequisite: None

AP Macroeconomics gives students a thorough understanding of the principles of economics that apply to an economic system as a whole. 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.**

Psychology, Grades 10-12

.5 credit

Course #1515

Prerequisite: None

Psychology is a one semester course where students will study the nature of psychology by studying the different branches. Students will also analyze the tools and techniques of psychology as they pertain to human growth, development and behavior; the development of the individual; including self-concept, relationships, group behavior and its impact on the individual. Long-term and short-term goal setting will also be studied. This course is offered first semester in conjunction with Sociology.

Sociology, Grades 10-12

.5 credit

Course #1516

Prerequisite: None

Sociology is a one semester course where students will study the nature of sociology by defining it as a field of study, analyzing research methods and learning sociological concepts. Such concepts, as culture and social problems, and the status and roles in relationships are included. Communications, such as the impact of the media on groups and technological development and its cause and effects on culture and society, will also be studied. This course is offered second semester in conjunction with Psychology.

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, Grade 11

1 credit

Course #1407

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.

Honors Physics, Grade 11

1 Honors credit

Course #1408

Prerequisite: Algebra 1

Honors Physics is a college preparatory science course. This course prepares students for AP Physics and the AP Physics Exam. Honors Physics cover the effects on and the proprieties 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. The 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.

AP Physics, Grades 11&12

1 AP credit

Course #1409

Prerequisite: Physics or Honors Physics & Algebra 2

AP Physics is designed to be a fast-paced college level physics class. Students will have the opportunity to take the Advanced Placement exam in physics for college credit in this course. Extensive lab time is necessary and may require class work at times other than the regular school day.

Anatomy and Physiology of Human Systems, 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.

Engineering Design and Problem Solving (Rocket Class I), Grades 10-12

1 Honors credit

Course #1411

Prerequisite: Principles of Applied Engineering, Algebra 1 & Geometry

Rocket Class I 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.**

Engineering Science (Rocket Class II), Grades 11-12

1 Honors credit

Course #1412

Prerequisite: Principles of Applied Engineering, Rocket I, Algebra 1,

Biology & Chemistry, or Physics

Rocket Class II. This class builds on Rocket I. 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.**

Scientific Research & Design (Rocket Class III), Grades 11-12

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.**

Health & 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 15th. You will have to provide your own transportation.**

Career and Technology Education

Agricultural, Food, and Natural Resources

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.

Small Animal Management, Grades 9-12 .5 credit

Course #1807

Prerequisite: Principles of Agriculture, Food, and Nat.

Resources

Small Animal Management will teach about small animals and the small animal management industry. This class will address topics related to dogs, cats, reptiles, amphibians and birds. Students will learn about animal systems, career opportunities and industry standards. Take with Equine Science second semester.

Equine Science, Grades 9-12 .5 credit

Course #1809

Prerequisite: Principles of Agriculture, Food, and Nat.

Resources & Small Animal Management

Equine Science will teach about horses, donkeys and mules, prepare for careers in animal science, acquire knowledge related to animal systems, and learn industry expectations. Take with Small Animal first semester.

Wildlife, Fisheries, and Ecology Management, Grades 9-12 1 credit

Course # 1802

Prerequisite: Prin. of Agriculture, Food, and Nat. Resources

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

Advanced Animal Science, Grade 12

1 credit

Course #1803

Prerequisite: Prin. of Agriculture, Food, & Nat. Res.,
Livestock, Small Animal, and Equine Science

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.

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.**

Agriculture Mechanics, Grades 9-12

1 credit

Course # 1804

Prerequisite: None

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 metalworking techniques.

Manufacturing

Introduction to Welding, Grade 9-12

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.

Welding I, Grades 10-12

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.**

Welding II, Grade 11-12

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.**

Arts, Audio Visual Technology, and Communications

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.

Graphic Design I, Grades 10-12 1 credit

Course #1604

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

Graphic Design I teaches students the basic ins and outs of photography and digital graphic design. They will take photos and learn how to manipulate and enhance them for better presentation using photoshop and other photo editing tools. Students will integrate 3D Printing techniques in this class.

Graphic Design II, Grades 10-12 1 credit

Course #1603

Prerequisite: Graphic Design I

Graphic Design II is focused on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content, including visual and performing arts and design, journalism, and entertainment services. Careers in graphic design span all aspects of the advertising and visual communications industries. The student is expected to apply knowledge in art and design projects, design systems, cyber safety procedures, ethical decision making with laws regarding use of technology in art and design and develop an advanced understanding of graphic design. Students will integrate advanced 3D Printing techniques in this class. **Industry Based Certification available.**

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

Course #1607

Recommended: 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.

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. **Industry Based Certifications available.**

Business, Marketing, and Finance

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.

Virtual Business, Grades 10-12 .5 credit

Course #1621

Prerequisite: Principles of Business

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.

Global Business, Grades 10-12 .5 credit

Course #1622

Prerequisite: Principles of Business & Virtual Business

Global Business is designed for students to analyze global trade theories, international monetary systems, trade policies, politics, and laws relating to global business as well as cultural issues, logistics, and international human resource management.

Business Management, Grades 10-12 1 credit

Course #1608

Prerequisite: Principles of Business

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

Education and Training

Principles of Human Services, Grades 9-12

1 credit

Course #1701

Prerequisite: None

Principles of Human Services is a 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. **Supplies are required.**

Child Development, Grades 10-12

1 credit

Course #1706

Prerequisite: Principles of Human Services

Child Development 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. **Certifications available.**

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: Principles of Health Science

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, Grades 10-12

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

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.**

Culinary Arts, Grades 11-12

2 credits

Course #1703

Prerequisite: Introduction to Culinary Arts

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification, a Texas culinary specialist certification, or any other appropriate industry certification. This course may be offered as a laboratory-based or internship course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. Participation in competitions is highly encouraged. Students will be required to cater some functions in the evening. **Required \$25 fee that covers supplies. Industry Based Certification available.**

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: Principles of Law

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: Principles of Law & 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.

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 Design and Problem Solving (Rocket Class I), Grades 10-12

1 Honors credit

Course #1411

Prerequisite: Principles of Applied Engineering, Algebra 1 & Geometry

Rocket Class I 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.**

Engineering Science (Rocket Class II), Grades 11-12

1 Honors credit

Course #1412

Prerequisite: Principles of Applied Engineering, Rocket I,

Algebra 1, Biology & Chemistry or Physics

Rocket Class II builds on Rocket I. 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.**

Scientific Research & Design (Rocket Class III), Grades 11-12

1 Honors credit

Course #1414

Prerequisite: Principles of Applied Engineering, Rocket I, Rocket II, Biology, Chemistry, and 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.**



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.

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

1 credit

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

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.

Music Theory, Grades 9-12

1 credit

Course #2020

Prerequisite: None

Music Theory students will learn the basics of music including the fundamental elements of rhythm, melody and harmony. Various styles of music will be covered (classical, jazz, pop, country etc.) with a spotlight on composers and performers from the covered genres. Students will be given the opportunity to shape the curriculum as they examine a musician of their choice.

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.**