

Hargrave High School



2016-2017 Course Guide

Willie J. Hargrave High School
25400 Willy Lane
Huffman, TX 77336
Phone: (281) 324-1845 Fax: (281) 324-3368
www.huffmanisd.net

HARGRAVE HIGH SCHOOL

Mission Statement

The mission of Willie J. Hargrave High School is to empower students to be responsible, life-long learners, who are prepared to succeed in personal and professional life.



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Administrative Staff

Brandon Perry, Principal

Jessica McDonough, Ed.D. Assistant Principal

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Counselors

Rita Maguire-Gil

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Registration Instructions

Students should carefully select courses to meet admission requirements for college, vocational school, business school, or other training for a career which requires special preparation. Selecting courses for next year demands your careful consideration.

Appropriate **course selection in order to meet all graduation requirements is the responsibility of the parent and student.** Wise choices and concern now will help you to experience a more profitable and pleasant school year.

Whatever your plans, they may be considered tentative because the changing of plans is part of the maturation process. Nevertheless, the development of an Academic-Career Pathway / Endorsement should be made with the utmost care and seriousness.

Parents & Students: It is your responsibility to make sure your schedule is correct at the beginning of each semester. Check for duplicate or missing courses. You should have English>Math>Science>Social Studies each year except for some seniors.

- Study the registration information carefully.
- Discuss your plan and course selection with your parents.
- Be sure that you have had or will be scheduled to take appropriate required courses.
- Be sure you are scheduling enough courses to earn sufficient credits toward graduation.
- Determine whether you are eligible to register for the courses which you selected in regard to grade level, course prerequisite or teacher approval.
- Seek help from you counselor if you need additional information.
- Alternate courses may be substituted for your requested elective depending on class size and prerequisites. Counselors will make every effort to place you in an elective relevant to your chosen Career Pathway.

Schedule changes will be limited. Please plan carefully.

Statement of Non-Discrimination Policy

The Huffman Independent School District does not discriminate on the basis of race, religion, color, national origin, sex, or handicap in providing education services. The Director of Student Services has been designated to coordinate compliance with the nondiscrimination requirements of Title IX. The Director of Special Education has been designated to coordinate compliance with the nondiscrimination requirements of Section 504 or the Rehabilitation Act of 1973, as amended.

The Importance of Taking Algebra 2

Students hoping to graduate in the Top 10% (or Top 7% for UT Austin) in order to gain automatic admission into a Texas college/university **must take Algebra 2.**

Taking Algebra 2 will allow you to graduate with a Distinguished Level of Achievement.

SAT, PSAT, ACT, TSI and ASVAB all test over Algebra concepts

Earning the Distinguished Level of Achievement can translate to additional opportunities after graduation, automatic college admission, and increase eligibility for financial aid.

A student in the top 10% of his/her class *must have earned this Distinguished Level of Achievement to be eligible for automatic admission to a Texas public college or university.*

Resources

www.tea.state.tx.us/graduation.aspx

<http://www.esc4.net/default.aspx?name=hb5.home>

Distinguished Achievement Program - Advanced Measures

(For students graduating in 2017 under the previous Distinguished Graduation Plan)

In addition to completing the course requirements for graduation, students must complete advanced measures in order to graduate under the Distinguished Achievement Program.

The measures must focus on demonstrated student performance at the college or professional level. A student must achieve any combination of four of the following:

(1) Test data:

- A score of three or above on College Board Advanced Placement examination;
- A score of four or above on an International Baccalaureate examination;
- A score on the Preliminary Scholastic Assessment Test (PSAT) that qualifies a student for recognition as a Commended Scholar or higher by the National Merit Scholarship Corporation; as part of the National Hispanic Scholar Program of The College Board; or as part of the National Achievement Scholarship Program for Outstanding Negro Students of the National Merit Scholarship Corporation. The PSAT score may count as only one advanced measure regardless of the number of honors received by the student.

(2) College Courses:

- A grade of 3.0 or higher on courses that counts for college credit. Students must earn an 80 average in college courses to earn an advanced measure.

TxVSN

The Texas Education Agency provides online courses to eligible students through the Texas Virtual School Network (TxVSN). The TxVSN is made up of two components—the supplemental course catalog and the full-time online schools. Students, parents, teachers, and administrators can rest assured that courses offered under both TxVSN programs meet the state's rigorous standards for teaching, learning, and college readiness. Students interested in taking courses through TxVSN can contact their counselor for more information.

HHS Dual Credit Registration

- Step 1 -** 9th, 10th and 11th grade should see Mrs. Taylor for DC information. RM: D204 Email: jtaylor@huffmanisd.net or call: 281-324-1845 Ext 7544
- Step 2 –** Students who have never taken dual credit will need to complete a free college application for Lee College (LC). Students may do this at www.applytexas.org (**Note: It is important to have your parents help you complete this application to ensure it is filled out to its entirety.**)
- Step 3 -** Students will receive an acceptance email from Lee College. This email will include your Lee College Student ID.
- Step 4 -** You will need this ID to complete the Pre-Assessment Activity (PAA) at www.lee.edu/counseling/paa. Print the certificate of completion for Mrs. Taylor's records. Students cannot proceed to the next step until the PAA is completed and a 'copy of completion' certificate is on file in Mrs. Taylor's office.
- Step 5 -** Reserve a seat in the next TSI (Texas Success Initiative) testing session. Pay for your testing sections. (Check payable to HHS)
TSI study materials <http://www.lee.edu/testing/tsi/info-materials/>
TSI study materials http://ctle.hccs.edu/gcpass/prep_home.htm
- Reading test - \$10 (required for all dual credit)
Writing test - \$10 (required for all dual credit)
Math test - \$10 (required for College Algebra or Economics)
- Students will receive immediate TSI results immediately after testing.
 - Students who pass the TSI will proceed to Step 5.
 - Students who do not pass the TSI, may retest on the next testing date.
 - Retests will be \$15 per section.
- Step 6 -** Lee College Registration will be held with Tracy Steenholdt (Dual Credit Counselor) at HHS. Registration dates in May TBA
- Step 7 -** Payment online – www.lee.edu Students who do not pay by the deadline will be dropped from the class by LC. Students should log into their LC account to make payment. For payment plan, contact LC Business Office at 281-425-6324.
Textbooks – www.lee.edu – select “Bookstore” under “College Operations” Scroll down towards bottom of page; select semester you are registered for Enter Course and Section number; view required and/or suggested books

Students currently enrolled in dual credit should complete steps 1, 5 if needed, 6 and 7.

Dual Credit Course Offerings

All information subject to change

Freshman & Sophomores

CollegePrep
CollegePrep–EDUC1200
Valerie Lee

Health
Healthy America –KINE1304
Felicia Thomas

Speech
Public Speaking–SPCH1315
Ray Whitlow
Thurs. 5 PM – 7:40 PM, HHS

Juniors

US History (1st semester) OL**
History of the US before 1877-HIST 1301

US History (2nd semester) OL**
History of the US since 1877–HIST 1302

Health (available 1st or 2nd semester)
The Healthy American – KINE 1304
Felicia Thomas, 7th period
**also available online during school

Speech (available 1st or 2nd semester)
Principles of Public Speaking–SPCH 1315
Ray Whitlow
Thurs 5 PM – 7:40 PM, HHS

ARTS 1301 OL**
Art Appreciation

PSYC 2301 OL**
Introduction to Psychology

SOCI 1301 OL**
Introductory Sociology

ARTS 1304 OL**
Art History

Seniors

English 4 (1st semester)
Comp & Rhetoric 1 – ENGL 1301
Beth Ebersbaker

English 4 (2nd semester)
Comp 2 – ENGL 1302
Beth Ebersbaker

College Algebra (1st semester)
Math 1314
JoAnne Taylor

Finite Math with Business App (2nd semester)
Math 1324
JoAnne Taylor

GOVT 2305 OL**
Federal Government

GOVT 2306 OL**
Texas Government

ECON 2301 OL**
Principles of Economic: Macro

ARTS 1301 OL**
Art Appreciation

PSYC 2301 OL**
Introduction to Psychology

SOCI 1301 OL**
Introductory Sociology

ARTS 1304 OL**
Art History

PHIL 1301 OL** (College Credit Only)-will not count in GPA

Dual Credit Tuition and Fees

Reduction of Fees for Dual Credit Students

- Tuition reductions are pending Lee College board approval per each academic year.
- The tuition reduction will be given to all co-enrolled students. These students will pay \$100 per course.
- This reduction is only for long semesters (fall and spring). The reduction is not available for summer semesters.
- The reduction is only applicable up to 8 credit hours. Full rates will be charged for credit hours in excess of the first 8 hours.

Automatic Payment Plan

Students may elect to make installment payments through a credit or debit card.

- \$25 payment plan enrollment fee per semester (non-refundable)
- \$2 full payment processing fee (if paying entire amount online)
- \$25 returned payment fee if the payment is returned

Payment plans are set up through the student's *myLC campus* accounts (under "account inquiry").

Financial Aid

High School dual credit students are not eligible for FASFA (Free Application for Federal Student Aid), but they can apply for state funds through TASFA (Texas Application for State Financial Aid). Applications are available online at www.lee.edu under the forms section of the Financial Aid page.

Dual Credit FAQs

- **Lee College enrolls students in the order that payment is received.** If you wait until close to the deadline, classes may be full and you will not be allowed to take the course. There is no late registration accepted.
- Students are permitted to take up to 6 college hours (2 classes) each semester – per Lee College – unless special permission granted from college.
- Students must sign permission with the college for the parent to have access to information such as grades, college account, transcript, etc. (FERPA)
- Students need to register and pay for courses each semester.
- Students are responsible for purchase required textbooks for the course.

Lee College Contacts

Counseling Center – Dual Credit Advisor

Tracy Steenholdt, Lead Counselor

281.425.6434

tsteenholdt@lee.edu

Rosemary Coffman, Assoc Dean of Student Affairs

281.425.6384

rcoffman@lee.edu

Financial Aid

Sharon Mullins, Financial Aid Director

281.425.6389

smullins@lee.edu

Pam Steyn, Accountant (Accounts Receivable)

281.425.6317

psteyn@lee.edu

Bookstore

Suzanne Machala, Director Auxiliary Services

281.425.6359

smachala@lee.edu

TSI TESTING SCORES

	Reading	Essay & Editing	Mathematics
SPCH 1315	347	357	
HIST 1301	351	5 or (4 + 363)	
SOCI 1301	351	5 or (4 + 363)	
PSYC 2301	351	5 or (4 + 363)	
ARTS 1301	346	356	
Instrumentation	342/347		336
Cosmetology	342		
MATH 1314	351	5 or (4 + 363)	350
ENGL 1301	351	5 or (4 + 363)	
GOVT 2305	351	5 or (4 + 363)	
ECON 2301	351	5 or (4 + 363)	
ARTS 1304	351	5 or (4 + 363)	
EDUC 1200	351	5 or (4 + 363)	
PHIL 1301	351	5 or (4 + 363)	

GPA Course List

The following course list is to be included in the GPA calculations beginning with the class of 2019.

ENGLISH

4.0	English I	5.0	English I PAP	6.0	English III AP
4.0	English II	5.0	English II PAP	6.0	English IV AP
4.0	English III	5.0	Dual Credit English IV		
4.0	English IV				
4.0	Business English				
4.0	Debate III				
4.0	College Prep English				
4.0	Advanced Journalism: Yearbook III				
4.0	Humanities/Creative Writing				

MATH

4.0	Algebra 1	5.0	Algebra I PAP	6.0	AP Calculus
4.0	Algebra 2	5.0	Algebra 2 PAP		
4.0	Geometry	5.0	Geometry PAP		
4.0	Math Models	5.0	Dual Credit College Algebra & Finite Math		
4.0	Statistics	5.0	Pre-Calculus PAP		
4.0	Math Applications in Ag, Food, & Natural Resources				
4.0	College Prep Math				
4.0	Algebra 3				

SCIENCE

4.0	Integrated Physics and Chemistry				
4.0	Biology	5.0	Biology PAP	6.0	AP Biology
4.0	Chemistry	5.0	Chemistry PAP	6.0	AP Chemistry
4.0	Physics	5.0	Pre-AP Physics	6.0	AP Physics 1
4.0	Aquatic Science			6.0	AP Physics 2
4.0	Forensic Science			6.0	AP Environmental Science
4.0	Astronomy				
4.0	Advanced Animal Science				
4.0	Engineering Design & Problem Solving				
4.0	Anatomy & Physiology				
4.0	Environmental Systems				

SOCIAL STUDIES

4.0 W. Geography
4.0 W. History
4.0 US History
4.0 Government
4.0 Economics

5.0 W. Geo PAP
5.0 Dual Credit US History

6.0 W. History AP
6.0 US History AP
6.0 AP Government
6.0 AP Economics
6.0 AP Human Geography

LOTE

4.0 Spanish I
4.0 Spanish II
4.0 Spanish III
4.0 American Sign Language I
4.0 American Sign Language II

5.0 Spanish I PAP
5.0 Spanish II PAP
5.0 Spanish 3 PAP

6.0 Spanish IV AP
6.0 Spanish V AP

3.0 Special Education Courses (modified Core Classes)

Courses that Meet Required Credits

Technology Credit Courses

Business Management & Finance

- ❖ Accounting I, II
- ❖ Business Management
- ❖ Principles of Business, Marketing & Finance

Arts, AV Technology & Communications

- ❖ Advanced Graphic Design & Illustration
- ❖ Animation
- ❖ Audio Video Production
- ❖ Broadcasting I, II
- ❖ Graphic Design & Illustration
- ❖ Principles of Arts, AV Technology & Communications

Technology

- ❖ Computer Science I, II
- ❖ Fundamentals of Computer Science
- ❖ Principles of Information Technology
- ❖ Web Technologies

Engineering

- ❖ Concepts of Engineering & Technology
- ❖ Engineering Design and Development
- ❖ Engineering Design & Problem Solving
- ❖ Introduction to Engineering Design
- ❖ Principles of Engineering Design

Other Enrichment Opportunities

- ❖ Advanced Journalism-Yearbook I, II, III
- ❖ Instrumentation Technology

Fine Arts Credit Courses

- ❖ All Art
- ❖ All Band
- ❖ All Choir
- ❖ All Dance/Drill Team
- ❖ All Theatre
- ❖ Principles and Elements of Floral Design

Speech Credit Courses

- ❖ Debate I, II, III
- ❖ Dual Credit Speech
- ❖ *Practicum in Education & Training
- ❖ Professional Communications
- ❖ Public Speaking

Health Credit Courses

- ❖ Dual Credit Health
- ❖ Health
- ❖ Health Science
- ❖ *Practicum in Education & Training
- ❖ Practicum in Health Science
- ❖ Principles of Health Science
- ❖ Sports Medicine I, II, III

**Upon completion of the Instructional Practice and Practicum in Education & Training courses, students will be awarded a health and speech credit if needed. No credit will be awarded if only one of these two courses is completed. Credit for health and speech will be awarded on a Pass or Fail basis. Student transcript will reflect "P" for the credit awarded. No GPA points will be added.*

ENGLISH LANGUAGE ARTS

English I-IV

Prerequisite: Credit in previous English course

Grade: 9 - 12

English I: (0011001/03220100)

Students increase and refine communication skills. Students are expected to plan, draft, and complete written compositions on a regular basis. Students edit papers for clarity, engaging language, and correct use of the conventions and mechanics of written English and produce final, error-free drafts. In English I, students practice all forms of writing. An emphasis is placed on organizing logical arguments with clearly expressed related definitions, theses, and evidence. Students write to persuade and to report and describe. English I students read extensively in multiple genres from world literature such as reading selected dramas, novels, and poetry from the Orient, Classical Greek, European, African, South American, and North American cultures originally written in English or translated from other languages.

English II: (0010111/03220200)

Students increase and refine their communication skills. Students are expected to plan, draft, and complete written compositions on a regular basis. Students edit their papers for clarity, engaging language, and the correct use of the conventions and mechanics of written English and produce final, error-free drafts. Students practice all forms of writing and an emphasis is placed on persuasive forms such as logical arguments, expressions of opinion, and personal forms. These personal forms may include a response to literature, a reflective essay, or an autobiographical narrative. English II students read extensively in multiple genres from world literature such as reading selected dramas, novels, and poetry from the Orient, Classical Greek, European, African, South American, and North American cultures originally written in English or translated from other languages

English III: (0011201/03220300)

Students enrolled in English III continue to increase and refine their communication skills. High school students are expected to plan, draft, and complete written compositions on a regular basis. Students edit their papers for clarity, engaging language, and the correct use of the conventions and mechanics of written English and produce final, error-free drafts. In English III, students practice all forms of writing. An emphasis is placed on business forms of writing such as the report, the business memo, the narrative of a procedure, the summary or abstract, and the résumé. English III students read extensively in multiple genres from American literature and other world literature. Periods from American literature may include the Pre-Colonial Period, Colonial and Revolutionary Periods, Romanticism and Idealism, Realism and Naturalism, Early 20th Century, and Late 20th Century.

English IV: (0011301/03220400)

Students enrolled in English IV continue to increase and refine their communication skills. High school students are expected to plan, draft, and complete written compositions on a regular basis. Students edit their papers for clarity, engaging language, and the correct use of the conventions and mechanics of written English and produce final, error-free drafts. In English IV, students are expected to write in a variety of forms, including business, personal, literary, and persuasive texts. English IV students read extensively in multiple genres from British literature and other world literature. Periods from British literature may include the Old English Period, Medieval Period, English Renaissance, 17th Century, 18th Century, Romantic Period, Victorian Period, and Modern and Post-Modern Period. Students learn literary forms and terms associated with selections being read.

English I-II Pre-AP/GT (0011011/03220100; (0011111/03220200)

Prerequisites: Credit in previous English course

Grade: 9-10

Pre-AP/GT classes contain the same concept of English I-II; however, the classes give students the opportunity to practice skills that will enable them to be successful in Advanced Placement classes on the eleventh and/or twelfth grade levels. Pre-AP/GT courses lay the foundation for success not only in the AP/GT Program, but also ultimately in college course work. Students should be task-oriented, proficient readers who are able to set priorities with regard to time and responsibilities. Advanced credit is awarded. Students failing the course at semester may be moved to on-level.

English III Language and Composition AP/GT (0011221/A3220100)

Prerequisite: English II or English II Pre-AP/GT

Grade: 11

Course Fee: \$16.00 non-refundable deposit, balance of test fee due before test day

English III Advanced Placement/GT consists of introductory college level work. The course focuses on non-fiction and rhetorical analysis along with style analysis. The purpose is to enable students to read and write prose mature enough in conception, development, and language to communicate effectively with adult readers on issues of some intellectual importance. Writing is an integral part of the AP English course. Advanced credit is awarded. Satisfactory score on the AP examination will count as a DAP measure and will usually result in college credit. Students who are failing the course at semester, may be moved to on-level.

English IV English Literature and Composition AP/GT (0011313/A3220200)

Prerequisite: English III or English III AP/GT, teacher recommendation

Grade: 12

Course Fee: \$16.00 non-refundable deposit, balance of test fee due before test day

This course is an advanced placement course consisting of challenging college level work. The course includes an intensive study of poetry and fiction. Students will be expected to analyze and synthesize literary works. Advanced credit is awarded and a satisfactory score on the AP test can result in college credit being granted and a DAP measure.

Note: Our Advanced Placement English courses are considered open enrollment, but since skills build from the Pre-AP courses to the AP level, students are asked to submit a writing sample in order to “jump” from regular course work into AP coursework. While Pre-AP courses are not necessarily a pre-requisite, they are encouraged. Additionally, a student may be denied placement in an AP course if the student’s TAKS scores indicate a deficiency in the subject area. Students, who are failing the course at semester, may be moved to on-level.

Business English (can count as 4th year English) (0019894/13011600)
Grade: 12

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

**Multidisciplinary endorsement must take English IV*

College Ready ELA (0011316/CP110100)
Prerequisite: English 3 and planning to attend community college
Grade: 12

This is a combined lecture/lab, performance-based course designed to develop students’ critical reading and academic writing skills. The focus of the course will be on applying critical reading skills for organizing, analyzing, evaluating and retaining material and practice in development of full-length themes with emphasis on structure, organization, unity, and development of thesis.

Professional Communication (Speech) (0019927/13009900)
Grades: 11 – 12
Credit: ½ credit only

Students will be expected to identify, analyze, develop, and evaluate communication skills needed for professional and social success in interpersonal situations, group interactions, and personal and professional presentations.

Creative Writing / Humanities (can count as 4th year English)

(0011501/03221200); (0011503/03221600)

Prerequisite: none

Grade: 12

The study of creative and imaginative writing allows high school students to earn one-half to one credit while developing versatility as a writer. Creative and Imaginative Writing, a rigorous composition course, asks high school students to demonstrate their skill in such forms of writing as essays, short stories, poetry, and drama. All students are expected to demonstrate an understanding of the recursive nature of the writing process, effectively applying the conventions of usage and the mechanics of written English.

Humanities is an interdisciplinary course in which students recognize writing as an art form. Students read widely to understand how various authors craft compositions for various aesthetic purposes. This course includes the study of major historical and cultural movements and their relationship to literature and the other fine arts.

**Multidisciplinary endorsement must take English IV*

Dual Credit Professional Communications (SPCH 1315) (0011805/03241400)

Prerequisite: Test College Ready on the TSI, register, pays at college

Grade: 10, 11, 12

Credit: High School and College Credit are awarded

This is a college level course in which students can earn high school and college credit. This course will satisfy the Communication Applications graduation requirement. Students must register and pay with Lee College.

Debate I, II, III (0011415/03240600); (0011416/03240700); (0011417/03240800)

Prerequisite: Pre-AP/AP Eng or Pre-AP/AP History class or teacher approval

Grade: 9-12

Debate is the organized clash of ideas. Just like lawyers represent clients in trials, individuals represent and defend ideas in debate. Debate encourages each side to use evidence, reasoning, and persuasion to best argue either side of an issue. This class heavily relies on performance through a variety of debate, discussion, and research. The skills of debate are invaluable, even beyond the classroom; they are the skills that colleges and employers look for, speaking, writing, research, confidence, and inference. Students will be required to complete all assigned rounds of debate.

English I – IV

Prerequisite: Counselor approval

Grade: 9 – 12

An alternate curriculum based on individual student needs that focuses on basic language arts skills necessary for students to participate in functional life activities. This includes functional reading and writing, as well as basic English usage.

Reading I-IV

Prerequisites: Counselor approval

Grades: 9-12

An alternate curriculum based on individual student needs that focuses on basic reading skills necessary for the student to participate in functional life activities. These basic skills include, reading signs and functional words, vocabulary, developing listening skills and following directions.

Dual Credit English 4 (Composition & Rhetoric 1301 and 1302) (0011310/03220400)

Prerequisite: #1301 - Test College Ready on the TSI, register, pay at college

#1302 - English 1301, register, pay at college

Grade: 12

Credit: High School and College Credit are awarded

This is a college level English class. Students must register/pay with Lee College. Students are responsible for purchasing or renting college textbooks.

English 1301: Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis. This course is reading and writing intensive.

English 1302: Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions. This course is reading and writing intensive.

MATHEMATICS

Algebra I w/Lab (0012051/03100500)

Prerequisite: Completion of eighth grade mathematics

Grade: 9

Students will develop a basic understanding of the foundation concepts for Algebraic thinking and symbolic reasoning - Function concepts - Relationship between equations and functions - Tools for algebraic thinking - Students use a variety of representations (concrete, numerical, algorithmic, graphical), tools, and technology, including calculators and computers with graphing capabilities and model mathematical situations to solve meaningful problems.

Algebra I Pre-AP/GT (0012054/03100500)

Prerequisite: Completion of eighth grade mathematics

Grade: 9

Algebra I Pre-AP/GT follows the same curriculum as Algebra I but also extends the curriculum in area such as critical thinking and problem-solving. This course is recommended for students planning to take Pre-Calculus PAP/GT. Advanced credit is awarded. Students who are failing the course at semester, may be moved to on-level. *Students must have obtained a grade of at least an 80 on the 8th grade STAAR Math.

Geometry (0012201/03100700)

Prerequisite: Algebra 1

Grade: 9-10

Students taking Geometry will develop a basic understanding of Geometric thinking and spatial reasoning - Geometric figures and their properties - Students use concrete, pictorial, algebraic, and coordinate tools, and technology, including calculators and computers with graphing capabilities to solve problems.

Geometry Pre-AP/GT (0012211/03240600)

Prerequisite: Algebra 1

Grade: 9-10

Geometry Pre-AP/GT follows the same curriculum as Geometry but also extends the curriculum in area such as critical thinking and problem-solving. This course is recommended for students planning to take Calculus AP/GT. Geometry Pre-AP/GT is recommended for freshman students who have completed Algebra I. Advanced credit is awarded. Students who are failing the course at semester, may be moved to on-level.

Algebra II (0012301/03100600)

Prerequisite: Algebra I and Geometry

Grade: 10 - 12

Students taking Algebra II will develop a basic understanding of the foundation concepts for high school mathematics - Algebraic thinking - symbolic reasoning - Functions, equations, and their relationship - Relationships between algebra and geometry - Tools for algebraic thinking - Underlying mathematical processes. Students continually use problem-solving, computation in problem-solving contexts, language and communication, connections within and outside mathematics, and reasoning, as well as multiple representations, applications and modeling, and justification and proof.

Algebra II Pre-AP/GT (0012311/03100600)

Prerequisite: Algebra I, Geometry

Grade: 10-12

This course follows the same curriculum as Algebra II. As an advanced math course, students further develop algebraic concepts and skills as part of preparation for Pre-Calculus and Calculus. Algebra II Pre-AP/GT is recommended for the students planning to take Calculus AP/GT. Advanced credit is awarded. Students who are failing the course at semester, may be moved to on-level.

Algebra III (0019879/03102500)

Prerequisite: Algebra II

Grade: 11-12

Algebra III is designed for students who have successfully completed Algebra II. This course will enhance the higher level thinking skills developed in Algebra II through a more in-depth study of those concepts and exploration of some pre-calculus concepts. Students in Algebra III will be challenged to increase their understanding of algebraic, graphical and numerical methods to analyze, translate and solve quadratic, polynomial, rational, exponential and logarithmic functions. Modeling real world situations is an important part of this course.

College Ready Math (0012290/CP111200)

Prerequisite: Algebra 1 and Geometry & planning to attend community college

Grades: 12

Topics include algebraic operations, solving linear equations and inequalities, graphing linear equations, systems of equations, polynomials, factoring techniques, rational expressions, and an introduction to radicals, probability and statistics.

It will also include solving and graphing linear equations and inequalities, systems of equations, polynomials, factoring techniques, rational expressions, radicals, complex numbers, solving and graphing quadratic equations and an introduction to functions. Emphasis is placed on algebraic techniques, in order to successfully complete MATH1314, College Algebra.

Mathematical Application in Agriculture, Food & Natural Resources (may count as 4th year of math) (0019829/13001000)

Prerequisite(s): Principles of Agriculture, Food & Natural Resources

Grade(s): 12

To be prepared for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. Students should apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources. To prepare for success, students are afforded opportunities to reinforce, apply, and transfer their knowledge and skills related to mathematics in a variety of contexts.

Statistics (0012313/03102530)

Prerequisite: Algebra 1 & Geometry

Grades: 10-12

Students will apply math to problems arising in everyday life, society and the workplace. Students will use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution and evaluating the problem-solving process and the reasonableness of the solution. Students will select appropriate tools such as real objects, manipulatives, paper and pencil, and technology and techniques such as mental math, estimation and number sense to solve problems. In Statistics, students will broaden their knowledge of variability and statistical processes.

Statistics and Risk Management (may count as 4th year of math) (0012314/13016900)

Prerequisite(s): Accounting I and Algebra II

Grade(s): 12

Students will use a variety of graphical and numerical techniques to analyze patterns and departures from patterns to identify and manage risk that could impact an organization. Students will use probability as a tool for anticipating and forecasting data within business models to make decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.

Pre- Calculus Pre-AP/GT (0012511/03101100)

Prerequisite: Pre-AP/GT Algebra II or Algebra III

Grade: 11 – 12

Students must have completed Pre-AP Algebra II or Algebra III before enrolling in this course. This course is an in-depth study of trigonometry including trigonometric circular functions, inverses, and graphs: identities and equations, exponential and logarithmic functions, polynomial and rational functions and their graphs, properties of real and complex numbers, etc. It is a rigorous mathematics course for those students

planning to take Calculus AP. Advance credit is awarded. Students must have completed Pre-AP Algebra II or Algebra III before enrolling in this course.

Calculus AP/GT (0012600/A3100101)

Prerequisite: Pre AP/GT Pre-Calculus

Grade: 12

Course Fee: \$16.00 non-refundable deposit, balance of test fee due before test

Students must have completed Pre-AP Pre-Calculus before enrolling in this course. Topics include differential calculus, integral calculus, and analytical geometry. This course is equivalent to the first semester college calculus. Students may take AP examination for possible college credit. Advance credit is awarded.

Dual Credit 1314 College Algebra (0012304/03102501)

Prerequisite: Test College Ready on the TSI, register, pay at college

Grade 11-12

Credit: High School and College Credit are awarded

The study of quadratic, polynomial, rational, logarithmic, and exponential functions; systems of equations; progressions; sequences and series; and matrices and determinants

Dual Credit 1324 Finite Mathematics (0012305/03102501)

Prerequisite: College Algebra 1, register, pay at college

Grade 11-12

Credit: High School and College Credit are awarded

Business applications in regards to the study of sets, functions, linear and quadratic inequalities, linear programming, the simplex method, matrix algebra, counting techniques, probability, and decision making.

Algebra 1 – Geometry – Math Models (0012401/03102400)

Prerequisites: Counselor approval

Grades: 9-12

An alternate curriculum based on individual needs that includes a study of operations using whole numbers, decimals and fractions; the place value system and units of measure; problem solving and probability; along with the basic concepts of algebra and geometry in order to reach the goal of attaining grade-level math fluency.

SCIENCE

Biology (0013101/03010200)

Prerequisite: none

Grade: 10

Students conduct field and laboratory investigations, use scientific methods, and make informed decisions using critical-thinking and scientific problem-solving. Students study structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers; living systems; homeostasis; ecosystems; and plants and the environment.

Biology Pre-AP/GT (0013111/03010200)

Prerequisite: none

Grade: 9 - 10

Students enrolled in Biology Pre-AP/GT will be expected to apply their knowledge when dealing with classroom materials and laboratory activities. This course will prepare students for AP/GT science courses. Students who are failing the course at semester, may be moved to on-level.

Biology AP/GT (0013113/A3010200)

Recommendation: Biology, Chemistry; PreAP Biology is highly recommended.

Grade: 11-12

AP Exam Fee: \$16.00 non-refundable deposit, balance of test fee due before test

This course is designed to be the equivalent of a college introductory biology course usually taken by biology majors during their first year. Biology AP includes topics regularly covered in college biology. It differs significantly from the usual first high school course in biology with respect to the kind of textbook used, the range and depth of topics covered, the kind of laboratory work done by students, and the time and effort required of students. AP biology provides students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. The Biology AP course prepares students for the first year college course and can serve to give students the confidence to be successful in this course. Students may take the AP examination upon completing the course. The exam is not required. Depending on the university, students who score 3-5 on the exam may be awarded college credit. Biology AP counts as an optional elective science course or the 4th year of science if needed. Advanced credit will be awarded.

Integrated Physics and Chemistry (IPC) (0013001/03060201)

Prerequisite: none

Grades: 9-12

In Integrated Physics and Chemistry, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical-thinking and scientific problem-solving. This course integrates the disciplines of physics and chemistry in the following topics: motion, waves, energy transformations, properties of matter, changes in matter, and solution chemistry.

Chemistry (0013201/03040000)

Prerequisite: Algebra 1, one science credit

Grade: 10 - 12

Students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study characteristics of matter; energy transformations during physical and chemical changes; atomic structure; periodic table of elements; behavior of gases; bonding; nuclear fusion and fission; oxidation-reduction reactions; chemical equations; solutes; properties of solutions; acids and bases; and chemical reactions. Students investigate how chemistry is an integral part of daily lives.

Chemistry Pre-AP/GT (0013201/0304000)

Recommendation: Grade of "B" in Pre AP Biology or "A" in Biology

Grades 10 – 12

Students conduct laboratory investigations and fieldwork. Students use scientific methods during investigations and make informed decisions using critical thinking and problem solving. Students study matter, energy, atomic structure, the periodic table, gases, bonding, nuclear fusion, solutions, acids and bases, chemical and physical changes, and chemical reaction. Advanced credit is awarded. Students who are failing the course at semester, may be moved to on-level.

Chemistry AP/GT (0013203/0304000)

Recommendation: Chemistry, Algebra II and teacher approval, Grade of "**A**" in PreAP
Chemistry is strongly recommended

Grade: 11 – 12

AP Exam Fee: \$16.00 non-refundable deposit, balance of test fee due before test

Chemistry AP/GT is an in-depth study of chemical concepts and principles. Topics include atomic theory, bonding, stoichiometry, equilibrium, acid-base theory, thermodynamics, nuclear chemistry and an intro. to organic chemistry. Laboratory activities will emphasize observation, data collection, data analysis, and the safe handling of chemicals and equipment. Some of the lab work includes analysis of unknowns through a variety of laboratory procedures. Advanced credit is awarded. The Chemistry AP/GT course prepares students for the first year college course and

can serve to give students the confidence to be successful in this course. Students may take the AP examination upon completing the course. The exam, however, is not required. Depending on the particular university, students who score 3-5 on the exam may be awarded college credit. Chemistry AP/GT counts as an optional elective credit course or the 4th year of science if needed.

Physics (0013495/03050000)

Prerequisite: Completed or Enrolled in Alg. II

Grade: 10 - 12

In Physics, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion; changes within physical systems and conservation of energy and momentum; force; thermodynamics; characteristics and behavior of waves; and quantum physics. This course provides students with a conceptual framework, factual knowledge, and analytical and scientific skills.

Physics Pre-AP/GT (0013501/03050000)

Recommendation: Completed or Enrolled in Alg. II

Grade: 10 - 12

In Physics Pre-AP students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion; changes within physical systems and conservation of energy and momentum; force; thermodynamics; characteristics and behavior of waves; and quantum physics. This course provides students with a conceptual framework, factual knowledge, and analytical and scientific skills. Advanced credit is awarded. Students who are failing the course at semester, may be moved to on-level.

Physics AP 1/GT (0013499/A3050003)

Recommendation: Completed Alg. II

Grade: 11 –12

AP Exam Fee: \$16.00 non-refundable deposit, balance of test fee due before test

Physics AP 1 uses a college text and covers kinematics; Newton's laws of motion; torque; rotational motion and angular momentum; gravitation and circular motion; work, energy, and power; linear momentum; oscillations, mechanical waves and sound; introduction to electric circuits. Advanced credit is awarded. Students may take the AP examination upon completing the course. Depending on the particular university, students who score 3-5 on the exam may be awarded college credit. AP/GT Physics may count as an elective or the 4th year of science if needed.

Physics AP 2/GT (0013500/A3050004)

Recommendation: Completed Alg. II; Completed or Enrolled in Physics AP 1

Grade: 11 –12

AP Exam Fee: \$16.00 non-refundable deposit, balance of test fee due before test

Physics AP 1 uses a college text and covers fluid statics and dynamics; thermodynamics with kinetic theory, PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; topics in modern physics. Advanced credit is awarded. Students may take the AP examination upon completing the course. Depending on the particular university, students who score 3-5 on the exam may be awarded college credit. AP/GT Physics may count as an elective or the 4th year of science if needed.

Environmental Systems (0019881/03020000)

Prerequisite: Biology

Grade: 11-12

In Environmental Systems, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: biotic and abiotic factors in habitats; ecosystems and biomes; interrelationships among resources and an environmental system; sources and flow of energy through an environmental system; relationship between carrying capacity and changes in populations and ecosystems; and changes in environments.

AP Environmental Science

Recommendation: Pre-AP Biology

Grade: 11-12

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them.

Astronomy (0013303/03060100)

Prerequisite: Biology, Algebra I, Geometry

Grade: 10 – 12

Students study the following topics: astronomy in civilization, patterns and objects in the sky, our place in space, the moon, and reasons for the seasons, planets, the sun, stars, galaxies, cosmology, and space exploration. Students who successfully complete Astronomy will acquire knowledge within a conceptual framework, conduct observations of the sky, work collaboratively, and develop critical-thinking skills. Students conduct laboratory and field investigations, use scientific methods, and make informed decisions

using critical thinking and scientific problem solving. Morning and evening lab activities are a requirement of the course.

Anatomy & Physiology (Pre-AP/GT) (0013401/13020600)

Prerequisite: Strongly recommend Pre-AP Biology

Grades: 10-12

This is an **advanced** course designed to give students a thorough knowledge of both the structure and function of the human body. Laboratory work is an integral part of the course. A large percentage of class time is devoted solely to cat dissection. The course is divided into five principal areas of concentration: organization, support and movement, control systems, maintenance, and continuity. It is a science elective option credit under the Recommended or DAP plans. Advanced credit will be awarded.

Aquatic Science (0013406/03030000)

Prerequisite: Biology; Recommend concurrently enrolled in Chemistry

Grades: 10-12

In Aquatic Science, students study the interactions of biotic and abiotic components in aquatic environments, including impacts on aquatic systems. Investigations and field work in this course may emphasize fresh water or marine aspects of aquatic science depending primarily upon the natural resources available for study near the school. Students who successfully complete Aquatic Science will acquire knowledge about a variety of aquatic systems, conduct investigations and observations of aquatic environments, work collaboratively with peers, and develop critical-thinking and problem-solving skills.

Forensic Science (0013344/13029500)

Prerequisite: Biology, Chemistry

Grades: 11-12

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

Engineering Design and Problem Solving (0013350/13037300)

Prerequisite(s): Concepts of Engineering & Technology

Grade(s): 11-12

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

Living Skills

Prerequisites: Counselor approval

Grade: 9 – 12

Alternate curriculum based on individual needs that includes the skills necessary for students to participate in a domestic living environment. This includes personal healthcare, clothing care, meal preparation and housekeeping skills.

SOCIAL STUDIES

World Geography (0014001/03320100)

Prerequisite: None

Grades: 9

Students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. A significant portion centers around physical processes that shape patterns in the environment; characteristics of major land forms, climates, and ecosystems and their interrelationships; political, economic, and social processes that shape cultural patterns; types of settlement; distribution and movement of world population; relationships among people, places, and environments; and the concept of region.

World History (0014101/03340400)

Prerequisite: None

Grades: 10

World History Studies is the only course offering students an overview of the entire history of humankind. The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilization as well as in civilizations in other parts of the world. Students evaluate the causes and effects of political and economic imperialism and of major political revolutions since the 17th century.

World History AP/GT (0019921/A3370100)

Prerequisite: Summer reading is required

Grade: 10-11

AP Exam Fee: \$16.00 non-refundable deposit, balance of test fee due before test

Students considering this course should have a serious commitment to developing competency in analytical skills, essay writing, and evaluative reading on a **college level**. Students are expected to be self-motivated and enjoy being challenged academically. This course follows the prescribed Advanced Placement curriculum, which develops a greater understanding of the evolution of global processes and contacts, of their interaction with different types of human societies, and of their global connections. Students are prepared for the AP World History examination by reading outside literature, their college textbooks, and analyzing primary documents. They are expected to be independent learners.

United States History (0014201/03340100)

Prerequisite: None

Grade: 11

In this course, which is the second part of a two-year study of U.S. history that begins in Grade 8, students study the history of the United States since Reconstruction to the present. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies of the Cold War and post-Cold War eras, and reform movements including civil rights. Students examine the impact of constitutional issues on American society, evaluate the dynamic relationship of the three branches of the federal government, and analyze efforts to expand the democratic process. Students analyze the impact of technological innovations on the American labor movement.

United States History AP/GT (0014211/A3340100)

Prerequisite: Summer reading is required

Grade: 11

AP Exam Fee: \$16.00 non-refundable deposit, balance of test fee due before test

This course concentrates on college preparedness with emphasis on higher-level thinking skills and essay writing. Through an extensive analysis and interpretation of events from the colonization of America to present-day conflicts, students will be prepared to take the US History AP exam for college credit. This college level course will utilize power point presentations, primary source documents, cross-curriculum research and scholarly writing to more actively engage students beyond the surface of a historical event. Summer reading is required. Advanced credit will be awarded. Students who are failing the course at semester, may be moved to on-level.

Dual Credit 1301 / 1302 US History (0014215/03340100)

Prerequisite: Test College Ready on the TSI, register, pays at college

Grade: 11

Credit: High School and College Credit are awarded

This is a college level US History class. Students must register/pay with Lee College.

HIST 1301 examines the political, diplomatic, economic, social, military, and intellectual history of the United States from the age of discovery to 1877. This course will develop and enhance understanding of the major social, political, and economic trends in American history through 1877. Topics covered will include: the Discovery and European conquest, English colonization, Mercantilism and the British Empire, the American Revolution, the New Republic, Jacksonian Democracy, Manifest Destiny, the Abolitionist and Women's movements, Slavery and the Old South, Secession, Civil War and Reconstruction. Some emphasis in this course will be placed on achieving an understanding of social history and the experiences of women and minority groups in American history.

HIST 1302 examines the political, diplomatic, economic, social, military, and intellectual history of the United States from Reconstruction to the present.

Government (0014400/03330100)

Prerequisite: Senior status / or counselor approval

Grade: 12

Credit: ½ credit only

The focus is on principles and beliefs upon which the United States was founded and the structure, functions, and powers of government at national, state, and local levels. This course is the culmination of governmental content and concepts studied from Kindergarten through secondary. Students learn major political ideas and forms of government in history. A significant focus is on U.S. Constitution, its underlying principles ideas, and the form of government it created.

Economics (0014300/03310300)

Prerequisite: Senior status / or counselor approval

Grade: 12

Credit: ½ credit only

Economics with Emphasis on the Free Enterprise System and Its Benefits is the culmination of the economic content and concepts studied from Kindergarten through required secondary courses. The focus is on the basic principles concerning production, consumption, and distribution of goods and services in the United States and a comparison with those in other countries around the world. Students examine rights and responsibilities of consumers and businesses. Students analyze interaction of supply, demand, and price and study the role of financial institutions in a free enterprise system.

Government AP/GT (0014001/A3330100)

Prerequisite: Senior status / or counselor approval

Grade: 12

Credit: ½ credit only

AP Exam Fee: \$16.00 non-refundable deposit, balance of test fee due before test day.

This is a one semester course which prepares students for the Advanced Placement exam. The emphasis is on the U.S. government system. Advanced credit is awarded. Students in this class must enroll in Economics AP/GT. Students who are failing the course at semester, may be moved to on-level.

Economics AP/GT (0014301/A3310200)

Prerequisite: Senior Status / or counselor approval

Grade: 12

Credit: ½ credit only

AP Exam Fee: \$16.00 non-refundable deposit, balance of test fee due before test

This is a one semester course which prepares students for the Advanced Placement exam to earn college credit. The course focuses on the U.S. economy as a whole

(macroeconomics). Advanced credit is awarded. Students in this class must enroll in Government AP/GT. Students who are failing the course at semester, may be moved to on-level.

Dual Credit Economics / Dual Credit Government

Grade: 12

GOVT 2305 (0014405/03330100)

Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, political participation, the national election process, public policy, civil liberties and civil rights.

Satisfies high school graduation requirement.

GOVT 2306 (0014406/03380001)

A survey of the origin and development of the Texas constitution, structure and powers of state and local government, federalism and inter-governmental relations, political participation, the election process, public policy, and the political culture of Texas.

ECON 2301 (0014302/03310300)

The study of how people make decisions and interact to deal with the problem of scarcity. The purpose of this course is not to teach you *what* to think, but *how* to think. This course will teach you how to think like an economist – to view and evaluate your life experiences, world events, and public policy from an economic standpoint. basic supply/demand model of micro markets; the meaning of unemployment and inflation data and how that data is computed; the meaning and components of gross domestic product; how to manipulate the aggregate supply/demand model of the macro economy; the meaning of, and influence on, potential GDP and full employment; the meaning of the business cycle and its phases; the Classical and Keynesian views of macroeconomic stability/instability; how monetary policy operates, its tools, and its advantages and drawbacks; -how fiscal policy operates, its tools, and its advantages and drawbacks; the theories concerning sources of economic growth; recent macroeconomic trends, concerns, and policies.

Community Living Skills

Prerequisite: Counselor approval

Grades 9-12

An alternate curriculum based on individual student needs that includes activities that are critical for maximizing independent functioning in a variety of community environments. These may include using transportation, the postal system, community facilities and restaurants.

Pre-AP/GT Psychology / AP/GT Psychology (full year class)

(0014501/03350100); (0014503/A3350100)

Prerequisite: None

Grades: 11 – 12; 10th with prior approval from counselor or teacher

AP Exam Fee: \$16.00 non-refundable deposit, balance of test fee due before test day.

In Psychology, an elective course, students consider the development of the individual and the personality. Students study topics such as theories of human development, personality, abnormal psychology, motivation, and learning. There is an emphasis on psychology as a social science with a focus on research methods, active learning, and critical thinking. This course discusses the career fields of psychology and prepares students for the Advance Placement exam. Advanced credit is awarded.

Dual Credit Psychology (0014509/03350100)

Grade: 11-12

PSYC 2301

Introduction to Psychology-A survey of the fields of general psychology; the biological and psychological basis of human behavior, intelligence, motivation, emotion, learning, personality, memory, and psychopathology.

Dual Credit Sociology (0014510/03370100)

Grade: 11-12

SOCI 1301

Introductory Sociology-This course will introduce the students to the principles of social organization. Topics include the study of personality, social groups, culture, social class and caste systems, population, rural and urban communities, and social changes, as well as social institutions such as the family, recreation, and religion.

Financial Literacy

Grade:11-12

Credit: ½ Credit

This course will give students a better understanding interest, avoiding and eliminating credit card debt, understanding the rights and responsibilities of renting or buying a home, managing money to make the transition from renting a home to home ownership. Students will also learn about starting a small business, being a prudent investor in the stock market and using other investment options beginning a savings program and planning for retirement, bankruptcy, the types of bank accounts available to consumers and the benefits of maintaining a bank account.

PHYSICAL EDUCATION

Girls or Boys PE (Team / Individual Sports)

Girls: (0015021/PES00055); (0015022/PES00055); (0015023/PES00052);

(0015024/PES00052);

Boys:(0015011/PES00055); (0015013/PES00052); (0015015/PES00054)

Prerequisites: None

Grades: 9 – 12

In Physical Education, students acquire movement knowledge and skills that provide the foundation for enjoyment, continued social development through physical activity, and access to a physically-active lifestyle. The student exhibits a physically-active lifestyle and understands the relationship between physical activity and health throughout the lifespan.

Girls and Boys Athletics I-IV

Girls: (0015179, 0015181/PES00000); (0015183/PES00001); (0015185/PES00002);

(0015187/PES00003);

Boys:(0015141, 0015151/PES00000); (0015161/PES00001); (0015163/PES00002);

(0015165/PES00003)

Prerequisites: **COACH APPROVAL** and current physical form on file each year

Grades: 9 – 12

Course Fee: Dependent upon sport

The following competitive sports satisfy the state graduation requirements for PE: football, boys/girls basketball, volleyball, baseball, softball, boys/girls tennis, boys/girls golf, cross country, and track.

Cheer I-IV (0015189/PES00013); (0015191/PES00001); (0015193/PES00002);

(0015195/PES00003);

Prerequisites: **COACH APPROVAL** and current physical form on file each year

Grades: 9 – 12

Course Fee: Contact Coach for more information

Cheerleading is a stand-alone extra-curricular. The primary purpose of cheerleading is to create enthusiasm and support for the district's athletic teams. The goal of instructional and performance activities is to enhance each individual member's skills and development, resulting in a highly skilled performance group. Cheerleaders will demonstrate good citizenship, moral standards, and assume responsibility for developing school spirit.

The following competitive sports satisfy the state graduation requirements for PE:

Cheerleading

Adaptive P.E. I-IV

Prerequisites: Counselor approval

Grade: 9 – 12

A modified curriculum based on individual student needs that includes specially adapted physical activities. These may include physical conditioning, as well as training in individual or group sports and activities.

Recreation and Leisure

Prerequisite: Counselor approval

Grade: 9-12

An alternate curriculum based on individual student needs that include skills and activities that can be incorporated into a student's instructional program to develop and/or increase his/her ability to use free time constructively.

Health (0015401/03810100)

Prerequisite: None

Grades: 11-12

Credit: ½ credit only

This is a course that includes topics in mental health, drug and alcohol use, communication skills, nutrition and overall healthy lifestyles. In health education, students acquire the information and skills necessary to become healthy adults and learn about healthy behaviors in which they should participate. This credit is required for graduation by our school district.

Dual Credit Health (0015402/03810200)

Grades: 10-12

KINE 1304

The Healthy American A course designed for individuals to make lifestyle assessments within the six dimensions of wellness; the physical, emotional, mental, social, spiritual and occupational dimensions.

Sports Medicine I (can count as health credit) (0019244/N1150040)

Prerequisite: none

Grades: 9 - 12

This course provides an opportunity for the study and application of the components of sports medicine including but not limited to: sports medicine related careers, organizational and administrative considerations, prevention of athletic injuries, recognition, evaluation, and immediate care of athletic injuries, rehabilitation and management skills, taping and wrapping techniques, first aid/CPR/AED, emergency procedures, nutrition, sports psychology, human anatomy and physiology, therapeutic modalities, and therapeutic exercise.

Sports Medicine II (0019254/N1150041)

Prerequisite: Sports Medicine I, or Instructor Approval

Grades: 10-12

Sports Medicine II is a more in- depth hands on class. Students will learn about prevention of athletic injuries, recognition, evaluation, and immediate care of athletic injuries, rehabilitation professional, skills (interview, resume) taping and wrapping techniques, first aid/CPR/AED, emergency procedures, sports psychology, human anatomy and physiology, therapeutic modalities, and therapeutic exercise

Sports Medicine III (0019255/N1150044)

Prerequisite: Sports Medicine I, II

Grade: 11-12

Sports Medicine III will provide opportunities for the advanced students in the sports medicine program to research, investigate, prepare, and present case studies, research projects, poster presentations, and power point presentations on instructor approved topics. Sports Medicine III will provide the senior level athletic training students the opportunity to explore a health care career of their choice. This exploration will provide observation experiences with an approved health care professional mentor in the work setting. This new course will be valuable to students needing an additional academic elective credit for working in the athletic training program to maintain their high academic standing in the graduation class.

FINE ARTS

Art I (0016001/03500100)

Prerequisites: None

Grades: 9 – 12

Course Fee: Supplies required

This course introduces the basics of art, study of vocabulary elements of design, and principles of art. It is an integration of the study of artists, styles, periods, and different mediums and techniques (printing, painting, etc.).

Art II (0016011/03500200)

Prerequisites: Art I

Grades: 10 – 12

Course Fee: \$10.00

A continuation of the study of fine arts will include elements of design and the principals of art. There will be an emphasis placed on use of basic skills and knowledge in art. Supplies will be required.

Art III (0016020/03500300)

Prerequisites: Art I and Art II

Grades: 11 – 12

Course Fee: \$10.00

This course is for students interested in art, especially as a career. Emphasis is placed on more advanced compositions and processes. Students work more independently. Students will work in drawing, painting, printing, and other mediums. Supplies will be required.

Art IV (0016030/03500400)

Prerequisite: Art III, **85 average** in previous class

Grade: 12

Course Fee: \$10.00

Provides advanced art students the opportunity to pursue particular fields of interest. Individual student projects will occupy a major part of the class time. Instruction will focus on the particular talent of the student. Students will produce a portfolio each semester. This course is recommended for the highly motivated art student. Supplies will be required.

AP/GT Studio Art: Drawing or 2-D Design Portfolio (0016034/A3500400)

Prerequisite: Art I, II and III or teacher recommendation

Grade: 11-12

Course Fee: \$26.00

Studio Art IV AP/GT is an advanced course. All students are required to prepare a portfolio of 24 pieces of college level work. The drawing portfolio is submitted at the end of the second semester to the College Board to be considered for college credit. Students are responsible for all supplies. Advanced credit will be awarded.

Art II, Photography I (0019945/03501200)

Prerequisite: Art 1

Grades: 10-12

Course Fee: Required supplies include a digital camera with manual settings, a 4-8 GB flash drive, and a sketchbook

This course is a continuation of the study of the art elements and principles of design through the use of photography. Students will use the camera as a tool for expressing ideas rather than as a point and shoot device for making random snapshots. Vocabulary, technology and themes specific to photography are developed. Expect homework.

Art II, Ceramics I (0016013/03500900)

Prerequisite: Art I or teacher approval

Grades: 10-12

Course Fee: \$16.00

Ceramics is primarily a studio art class that focuses on using clay for both functional objects as well as sculpture. Students will look at and discuss the work of other artists who work with sculpture and pottery. Students are required to enter one contest.

Art III, Ceramics II (0016022/03501800)

Prerequisite: Ceramics I

Grades: 10-12

Course Fee: \$16.00

Ceramics II is primarily a studio art class that focuses on using clay for both functional objects as well as sculpture. Students are required to research and create more complex objects and surface designs. Students will continue to look at and discuss the work of other artists who work with sculpture and pottery. Students are expected to enter a few contests each year.

Art IV, Ceramics III (0016031/03502700)

Prerequisite: Ceramics II

Grades: 10-12

Course Fee: \$16.00

Ceramics III is primarily a studio art class that focuses on using clay for both functional objects as well as sculpture. Students are required to use clay and other sculptural materials to do a series of work that is both challenging and linked conceptually. Students will continue to look at and discuss the work of other artists who work with sculpture and pottery. Students are expected to enter a few contests each year.

AP/GT Studio Art 3D Portfolio (0016032/A3500300)

Prerequisite: Art III Ceramics or teacher approval

Grades: 11-12

Course Fee: \$26.00

The Advanced Placement 3-D Portfolio is open to students who are interested in sculpture. The portfolio requirements are at least 16 sculptures, total. Eight of these represent technical expertise with an exploration of different ideas. The other eight pursue a theme or develop an idea through a series of works.

Dual Credit Art Appreciation (0016036/03500110)

Grades: 11-12

ARTS 1301

Art Appreciation-A general education course open to all – design principles from the layman’s point-of-view. Critical evaluation of selected works of painting, sculpture, and architecture.

ARTS 1304

Art History

Marching Band I-IV (Fall Semester) (0016201/PES00012); (0016203/PES00012); (0016205/PES00012); (0016207/PES00012)

Prerequisites: Previous experience with an instrument or teacher approval

Grades: 9 – 12

Band I-IV is a fall semester competitive performance group that includes marching at all varsity football games, parades, U.I.L. Contests, Invitation Marching Contests and performing at Christmas concerts. Participation in TMEA/ATSSB, All Region tryouts is required. Marching Band can be used for PE credit.

Concert Band I-IV (Spring Semester) (0016202/03150100); (0016204/03150200); (0016206/03150300); (0016208/03150400)

Prerequisites: Previous band experience

Grades: 9 – 12

Spring semester band is an extension of the fall semester band and is not recommended as a one-semester class. Participation in UIL Solo/Ensemble is required. Spring semester band can be used for fine arts or elective credit.

Jazz Ensemble I-IV (0016210/03153000); (0016212/03153100); (0016214/03153200); (0016216/03153300)

Prerequisites: Auditions/teacher approval. Must be enrolled in regular band concurrently
Grades: 9 – 12

This is a performance class stressing stylistic jazz technique. Public performances and entertainment for civic functions and preparation for jazz competitions are a major part of the curriculum.

Concert Choir (I-IV) (0016110/03150900); (0016112/03151000); (0016114/03151100); (0016116/03151200)

Prerequisites: None

Grades: 9 – 12

Fees: \$5 costume cleaning fee

Concert choir is open to any student who is passionate about singing and performing. Students will learn and apply vocal and choral techniques. Students will study a wide range of choral repertoire from various periods and sing in different languages. Students will perform in several concerts throughout the year and U.I.L. contest. Come prepared to sing and perform!

Ovation (Show Choir I-IV) (0016317/03150900); (0016318/03151000); (0016319/03151100); (0016320/03151200)

Prerequisites: Audition only

Grades: 9 – 12

Course Fee: \$26.00 plus cost of shoes

Ovation is an audition show choir that incorporates dance into performance. Music will be from a variety of styles including jazz, rock, musical theatre, country and contemporary. This exciting mixed group gets the chance to compete, perform and develop their musical talents. Students will prepare multiple performances during the year and perform at community events. Some costuming fee may be required.

Dance Team – Falconettes I-IV (0015311/PES00014); (0015313/03832600); (0015315/03832700); (0015317/03832800);

Prerequisites: Competitive selection

Grades: 9 – 12

Credit: **Dance Team I is a PE credit – Dance Team II, III & IV are Fine Art credits**
1 credit (year long course)

Class experiences provide an opportunity to learn dance and performing skills. Students perform at athletic events, pep rallies, and out-of-district competition. Cost is approximately \$700-\$900.

Principles of Dance I-IV (0015307/03830100); (0015309/03830200); (0015320/03830300); (0015322/03830400);

Prerequisites: Courses are to be taken in sequence or based on skill level

Grades: 9–12

Credit: **Dance I is a PE credit – Dance II, III & IV are Fine Art credits**

1 credit (year long course)

These four courses are designed for students to learn basic and advanced dance techniques. Skills will increase at a faster pace and dances (and dance combinations) involve greater difficulty with each level. Approximately \$36.00 is required for dance attire (unless the students already own these items).

Guard Team - Falconettes I-IV (0015338/PES00014); (0015340/03830200); (0015342/03830300); (0015344/03830400);

Prerequisites: Competitive selection

Grades: 9 – 12

Credit: **Dance Team I is PE credit – Dance Team II, III & IV are Fine Art**

1 credit (year long course)

Students learn basic dance techniques, marching fundamentals, and utilization of props (flags). The class experiences provide opportunities to improve dance. Students perform at athletic events, pep rallies, and out-of-district competition. Cost is approximately \$700-\$900

Theatre Arts I – Introduction to Theatre (0016301/03250100)

Prerequisites: None

Grades: 9-12

This course provides a general introduction and exposure to all parts of theatre. Included are the acting skills involved in the expressive use of the body and voice, playwriting, and technical theatre. Participation in main stage productions is encouraged but optional.

Theatre Arts II-IV (0016303/03250200); (0016305/03250300); (0016307/03250400);

Prerequisite: Theatre 1

Grades: 10-12

Students will learn advanced skills in acting, directing, theatre history, technical theatre and business. Level II and IV students will direct short scenes and/or plays.

Theatre Arts II-IV (Varsity Theatre) (0016331/03250800); (0016332/03250300); (0016333/03251000);

Prerequisite: Audition Only

Grades: 10-12

This class is designed for a more in depth look at the acting process. Students will specifically look at the techniques of some of the most respected acting teachers in the

country. Students will refine their acting skills through monologue, scene and short play work. Exposure to a variety of dramatic literature will spear head the direction of the class.

Theatre Production I-IV (Set Construction and Design)

Prerequisite: None

Grades: 9-12

Students will build sets and props to support departmental productions. Students will learn basic construction and painting skills for theatrical use. Students will explore the design of set and lighting for performance. Successful completion of safety curriculum/parent approval is required for work with power equipment.

Theatre Productions I (Costume Construction and Design) (0016316/03252900)

Prerequisite: None

Grades: 9-12

A hands on design and construction class. Students will be taught sewing techniques to apply in construction of costumes for departmental productions. Students will also explore fashion history and design using theatrical design techniques. Basic script analysis, costume drawing and construction.

Theatre Productions II (Costume Construction and Design) (0016312/03253000)

Prerequisite: Productions I

Grades: 10-12

Continuation of Productions 1 this class will expand a student's knowledge of sewing and design techniques. Level III students will have the opportunity to design a costume and construct it for a show. Level IV students will be given the opportunity to design and supervise construction of the costumes required for a show.

Foreign Language

Spanish I (0016601/03440100)

Prerequisites: None

Grades: 9 – 11

An introductory course that provides students with the basic skills needed for using and understanding Spanish. This course may be taken in grades 9-11. This is a challenging course that includes opportunity for beginning proficiency in listening, speaking, reading and writing through study of vocabulary, idiomatic expressions, and verb conjugations

Spanish 1 Pre-AP/GT (0016602/03440100)

Prerequisites: Strong ELA skills

Grades: 9-11

An introductory Spanish course for the student who enjoys the rigor and pace of a Pre-AP course. The course covers material similar to that of Spanish I and is appropriate for those who catch on quickly and are conscientious about their grades. Typically, students who excel in English grammar perform well in Spanish and might consider taking the PreAP class. Students who are generally successful in other Pre-AP/AP courses are good candidates for Spanish Pre-AP/AP courses. Native speakers of Spanish are highly encouraged to take Spanish 1PreAP!

Spanish II (0016611/03440200)

Prerequisites: Spanish 1

Grades: 9 – 12

This intermediate level course continues to develop listening, speaking, reading and writing skills through the study of additional vocabulary, idiomatic expression and verb conjugations. The curriculum builds upon skills and concepts. Upon completion, the student should be able to communicate on an elementary level with native speakers.

Spanish II Online (0016611/03440200)

Prerequisite: Spanish I Online

Grades: 9

This intermediate level course continues to develop listening, speaking, reading and writing skills through the study of additional vocabulary, idiomatic expression and verb conjugations. The curriculum builds upon skills and concepts. Upon completion, the student should be able to communicate on an elementary level with native speakers.

Spanish II Pre-AP/GT (0016613/03440200)

Prerequisite: Spanish I and teacher recommendation

Grades: 9-12

This course is designed for students who are enthusiastic about learning Spanish as well as those who intend to continue studying Spanish in Spanish III Pre-AP. Students who enjoy the rigor and pace of the pre-AP classroom are encouraged to take Spanish II Pre-AP. Upon completion, the student should be able to communicate on an elementary level with native speakers, using appropriate vocabulary, idiomatic expressions and correct verb conjugations. Advanced credit will be awarded.

Spanish III Pre-AP/GT (0016625/03440300)

Prerequisites: Spanish II and teacher recommendation

Grades: 10-12

The Spanish III Pre-AP course is designed for the student who is highly task oriented, personally enthusiastic about taking Spanish, and who wishes to work toward mastery of Spanish. The goal is to prepare students for success in taking both Spanish IV and the Advanced Placement test. Advanced credit will be awarded.

Spanish IV AP/GT (0016623/A3440100)

Prerequisite: Spanish III and teacher recommendation

Grades: 10-12

AP Exam Fee: \$16.00 non-refundable deposit, balance of test fee due before test

The Spanish IV course is designed to expose the student to Spanish literature, history, art, and culture in the Spanish language. This course will develop the students' abilities to understand spoken Spanish in various contexts, to read newspaper and magazine articles, literary and cultural texts, and to speak and write with reasonable fluency and accuracy in Spanish. This course prepares students to pass the Spanish AP Language exam. Advanced credit will be awarded.

Spanish V Pre-AP/GT (0016624/03440500)

Prerequisites: Spanish IV AP & teacher recommendation

Grade: 12

The Spanish V Pre-AP course is designed for seniors who have taken Spanish IV AP and wish to have a fifth year of Spanish prior to graduation. This course provides opportunities to use Spanish in real-world situations.

Spanish 1 and 2 for Spanish Speakers (2 credits)

Grades: 10-12

This course is designed for the native Spanish-speaking students who are proficient in their native language and desire to enhance their grammar and writing skills. Course work will be done at an accelerated pace, covering two years' work in one year and

receiving two high school credits. Students who have completed Spanish 1 are not eligible for this course. At the end of the year, in high school, in the event that a student has passed the first semester and not the second, the student may receive credit for Spanish 1.

American Sign Language 1 & 2 (0016630/03980100); (0016632/03980200)

Prerequisite: Application Process

Grade: 9-11

Fee: Students must pay a fee for this course – See counselor for details

Students in ASL develop the ability to perform the tasks of the novice language learner. The novice language learner, when dealing with familiar topics, should understand ASL phrases receptively and respond expressively with learned material; sign learned words, concepts, phrases, and sentences; recognize the importance of communication and how it applies to the American Deaf culture; and recognize the importance of accuracy of expression by knowing the components of ASL. Students use expressive and receptive skills for comprehension.

Junior Reserve Officer Training Corp

JROTC I-IV (0015501/PES00004); (0015511/03160200); (0015521/03160300); (0015531/03160400)

Students must meet height/weight standards to be fitted for uniform and also be able to participate in outdoor physical activity. All students are required to have a physical and ECG in order to participate in this course. Physicals and ECGs are offered at the High School in the Spring at \$20 each.

Grades: 9 – 12

Course Fee: \$20 for JROTC insurance to cover training and events

JROTC I-IV are PE equivalent or elective courses that prepare high school students for responsible leadership roles while making them aware of rights, responsibilities, and privileges as American citizens. Uniforms and other required equipment are provided. Travel, field trips, and competitions are a part of the curriculum. Each successive course is a pre-requisite for the next. **Cadets must maintain JROTC appearance/grooming standards & demonstrate progress in developing leadership traits.**

JROTC Special Teams

Prerequisites: Enrollment in JROTC / teacher approval

Grades: 9-12

Course Fee: \$20 for JROTC insurance to cover training and events

This course is designed for cadets who participate on a Special Team for JROTC competition. Special Teams include Color Guard, Drill Team and Rifle Team. Cadets will learn teamwork, responsibility and dedication to themselves and their team.

JROTC Staff (0015533/03160400)

Students must meet height/weight standards to be fitted for uniform and also be able to participate in outdoor physical activity. All students are required to have a physical and ECG in order to participate in this course. Physicals and ECGs are offered at the High School in the Spring at \$20 each.

Grades: 10 – 12

Course Fee: \$20 for JROTC insurance to cover training and events

JROTC students in leadership roles may take this course upon approval.

Journalism

Advanced Journalism – Yearbook I – III (0011410/03230110); (0011412/03230120); (0011414/03230130);

Prerequisite: 3.0 GPA OR a score of 4000 on their English I or II EOC
or teacher approval

Grade: 10-12

Students enrolled in Advanced Journalism: Yearbook I, II, III communicate in a variety of forms for a variety of audiences and purposes. High school students are expected to plan, draft, and complete written and/or visual communications on a regular basis, carefully examining their copy for clarity, engaging language, and the correct use of the conventions and mechanics of written English. In Advanced Journalism: Yearbook I, II, III, students are expected to become analytic consumers of media and technology to enhance their communication skills. In addition, students will learn journalistic ethics and standards. Writing, technology, visual and electronic media are used as tools for learning as students create, clarify, critique, write, and produce effective communications. Students enrolled in Advanced Journalism: Yearbook I, II, III will refine and enhance their journalistic skills, plan, organize, and prepare a project for purchase.

AVID

(Advancement Via Individual Determination)

AVID (0019800/N1290001); (0019802/N1290002); (0019804/N1290030); (0019806/N1290033)
Prerequisite: Interview and must be enrolled in one Pre-AP, AP or dual credit course
Grades: 9-12

AVID is a course designed to keep students on track and prepared for college. Students are required to take a pre-AP, AP, or dual-credit course, and are given the support of college tutors in class each week. Students are required to keep a binder, attend tutorials, take Cornell notes, and participate in community service activities. Students will also have the opportunity to visit college campuses throughout the school year. Students and parents will be required to sign a contract once accepted into the program, and may be removed if the AVID site team feels it is necessary.

Enrichment Opportunities

Off Campus 7th and 8th period (0018751/018761)
Prerequisite: Administrative approval
Grades: Seniors only

Students **must** have completed the following requirements before they will be authorized to register for Early Release:

- Passed all 5 EOC tests
- Have completed all credit requirements to be classified as a senior

Office Aide (0018011/850000ff)
Prerequisites: Administrative approval
Grades: Seniors only
Credit: No credit for graduation-students may only be approved for one period office aide

Students work in offices throughout the building. Attendance, grades, discipline and attitude will be evaluated prior to approval.

Vocational Skills

Prerequisite: Counselor approval

Grade: 10-12

An alternate curriculum based on individual student needs that includes skills and activities critical for successful employment. Work includes domestic skills, industrial skills and other employment or pre-employment skills.

SAT / UIL (University Interscholastic League) (0019911/85000XXX)

Prerequisite: UIL coach approval

Grade: 10 - 12

Students prepare for the SAT by learning and applying test-taking strategies and using both teacher and computer-aided instruction. Some class time is spent in learning the format of the ACT and taking ACT practice tests online as well. Students competing in UIL academic subject areas complete independent study in preparation for the UIL competition in the spring.

Peer Assistance and Leadership (PAL)

Grade: Senior only

PAL (Peer Assistance and Leadership) is a service-oriented class comprised of selected seniors. The PAL student's primary responsibility is to be a peer helper, mentor, and a positive influence in the lives of younger students. Besides peer helping, PALs may also:

- Prepare and deliver skits/presentations to elementary-age students
- Tutor at assigned elementary/junior high/middle schools
- Assist HHS teachers in various capacities
- Practice with Special Olympians and interact with special needs young adults
- Volunteer for special activities within the district

PALs are held to a code of ethics and are expected to have a positive impact not only on the younger students they work with, but also to be positive role models both in and out of school.

Career and Technical Education (CTE)

Advanced Technical Credit (ATC)

ATC gives high school students a chance to receive credit at participating community colleges across Texas for taking high school technical courses. Students to meet the following criteria for awarding college credit for ATC courses taken in high school.

- The high school course is listed in the Statewide Articulation Course Crosswalk and is equivalent to one or more high school credits.
- The student successfully completes the course with a grade of 80 (3.0) or better and masters the content of the ATC course, or final course in the sequence, and the high school prerequisite courses listed in the ATC Course Crosswalk.
- The student completes the course, or the final course of the ATC sequence of courses, as a high school junior or senior although a college has the discretion to accept an ATC course or final course in a sequence taken in the grades 9 or 10.
- The student enrolls in a participating college within 15 months of high school graduation (a college may extend this time line).

Courses Available for ATC:

- Accounting I
- Culinary Arts
- Health Science
- Principles of Business, Marketing, and Finance
- Principles of Health Science

**Courses are subject to change*

Technology Credit Courses

The following courses will count towards the two required technology credits needed for graduation.

Business Management & Finance

- Principles of Business, Marketing & Finance
- Accounting I
- Accounting II

Arts, AV Technology & Communications

- Principles of Arts, AV Technology & Communications
- Graphic Design & Illustration
- Advanced Graphic Design & Illustration
- Animation
- Audio Video Production
- Broadcasting I
- Broadcasting II

Technology

- Principles of Information Technology
- Fundamentals of Computer Science
- Computer Science I
- Computer Science II
- Web Technologies

Engineering

- Concepts of Engineering & Technology
- Engineering Design & Development
- Engineering Design & Problem Solving
- Introduction to Engineering Design
- Principles of Engineering Design

Other Enrichment Opportunities

- Advanced Journalism-Yearbook I, II, III
- Instrumentation Technology

Certifications

Certifications are incorporated into the course curriculum and students are responsible for the cost of the certification.

Business & Industry Endorsement:

Agriculture, Food & Natural Resources

- OSHA Safety Certification
- American Meat Science
- Anglers Safety
- Boaters Education Safety
- Equine
- Hunter Education Safety
- Principles of Livestock Selection
- Texas Master Florist
- Welding

Architecture & Construction

- NCCER-Carpentry Fundamentals, Level One
- OSHA Safety Certification

Business-Professional Communications

- Southwest Airlines

Hospitality & Tourism

- OSHA Safety Certification
- Food Handlers
- Food Protection Manager

Public Service Endorsement:

Education & Training

- Childcare
- CPR

Health Science

- Clinical Medical Assistant
- CPR
- Phlebotomy

**OSHA Certification is \$26.00 and will be offered in several pathways.*

***Certifications are subject to change*

CTE Student Organizations (CTSO)

The following Career and Technical Student Organizations are recognized as being an integral part of CTE instructional programs:

Business Professionals of America (BPA)

Business Professionals of America has a history as a student organization that contributes to the preparation of a world-class workforce through the advancement of leadership, citizenship, academic and technological skills for students at the Secondary and the Post-Secondary level. Through co-curricular programs and services, members of Business Professionals of America compete in demonstrations of their business technology skills, develop their professional and leadership skills, network with one another and professionals across the nation, and get involved in the betterment of their community through good works projects.

Family, Career and Community Leaders of America (FCCLA)

Since 1945, FCCLA members have been making a difference in their families, careers and communities by addressing important personal, work and societal issues through family and consumer sciences education. Involvement in FCCLA offers members the opportunity to expand their leadership potential and develop skills for life — planning, goal setting, problem solving, decision-making and interpersonal communication — necessary in the home and workplace.

Health Occupations Students of America (HOSA)

Health Occupations Students of America (HOSA) is a national vocational student organization endorsed by the U.S. Department of Education and the Health Occupations Education Division of the American Vocational Association. HOSA's two-fold mission is to promote career opportunities in the health care industry and to enhance the delivery of quality health care to all people. HOSA's goal is to encourage all health occupations instructors and students to join and be actively involved in the HOE-HOSA Partnership.

National Future Farmers of America (FFA)

FFA makes a positive difference in the lives of students by developing their potential for premier leadership, personal growth, and career success through agricultural education.

SkillsUSA

SkillsUSA is a national organization serving high school and college students and professional members who are enrolled in technical, skilled and service occupations, including health occupations.

Texas Association of Future Educators (TAFE)

The Texas Association of Future Educators or TAFE (pronounced "taffy") is a co-curricular statewide non-profit (501 c3) student organization created to allow young men and women an opportunity to explore the teaching profession. The organization was created in 1984 to provide the best and brightest high school and middle school students in Texas with the necessary knowledge to make informed decisions about pursuing careers in education. TAFE is sponsored by the Texas Association of Secondary School Principals and is governed by a board of directors comprised of teachers, students and principals.

Technology Student Association (TSA)

The Technology Student Association (TSA) is the only student organization devoted exclusively to the needs of technology education students who are presently enrolled in, or have completed, technology education courses

National Technical Honor Society (NTHS)

NTHS strives to bring well deserved recognition, scholarship opportunities, and career opportunities to students who excel in one of the 108 career and technical educational fields as their profession. Not only do NTHS students embody all the attributes and talent which is in demand today, these students also embrace a clear vision for tomorrow's workforce and their role in it. NTHS understands changes in industry within local communities and on a global scale. Members are nominated by teachers and staff.

Huffman ISD Endorsement Pathways		
Endorsement	Cluster Level	Pathway Level
Business & Industry	Agriculture, Food & Natural Resources <i>Animal Science</i> (OSHA Safety Certification) (American Meat Science Certification) (Equine Certification) (Principles of Livestock Selection Certification) (Hunters, Boaters & Anglers Safety Certification) <i>Horticulture Science</i> (Texas Master Florist) (OSHA Safety Certification)	9 Principles of Agriculture, Food and Natural Resources (1)
		10-11 Small Animal Management (1/2) / Livestock Production (1/2)
		10-11 Wildlife, Fisheries, and Ecology Management (1)
		11-12 Veterinary Medical Applications (1)
		12 Advanced Animal Science (1)
		12 Mathematical Applications in AFNR (1)
		9 Principles of Agriculture, Food and Natural Resources (1)
		10 Principles and Elements of Floral Design (1)
		11 Horticulture Science (1)
		12 Landscape Design & Turf Management (1)
		12 Mathematical Applications in AFNR (1)
		9 Principles of Agriculture, Food and Natural Resources (1)
	10 Agricultural Mechanics and Metal Technologies (1)	
	11 Agricultural Facilities Design and Fabrication (2)	
	12 Practicum in AFNR (2)	
	12 Mathematical Applications in AFNR (1)	
	9 Principles of Architecture and Construction (1)	
	10 Construction Technology (1)	
	11 Construction Management (1)	
	12 Practicum in Construction Management (2) (coming in 2017-2018)	
9 Principles of Business, Marketing, Finance (1)		
10 Business Management (1)		
11 Business Law (1)		
12 Business English (1)		
9 Principles of Business, Marketing, Finance (1)		
10 Accounting I (1)		
11 Accounting II (1)		
12 Money Matters (1)		
12 Statistics & Risk Management (1)		
9 Principles of Human Services (1)		
10 Culinary Arts (1)		
11-12 Practicum in Culinary Arts (2)		
12 Restaurant Management (1)		
Public Services	9 Principles of Human Services (1)	
	10 Child Development (1/2) / Interpersonal Studies (1/2)	
	11 Instructional Practices in Education and Training (2)	
	12 Practicum in Education and Training I (2)	
	10 Principles of Health Science (1)	
	11 Health Science (2)	
	12 Practicum in Health Science (2)	
	10-12 Anatomy and Physiology (1)	
	9-10 Principles of Human Services (1)	
	11 Cosmetology I (3) (class offered at Lee College)	
12 Cosmetology II (3) (class offered at Lee College)		
9 Principles of Law, Public Safety, Corrections & Security (1)		
10 Law Enforcement I (1)		
11 Law Enforcement II (1) (coming in 2017-2018)		
11-12 Forensic Science (1)		
JROTC	9-12 Any four JROTC credits	
Arts & Humanities	Arts, A/V Technology & Communications	9-12 Principles of Information Technology (1)
	<i>Graphic Design</i>	9 Principles of Art, Audio Video Technology and Communications (1)
		10 Graphic Design & Illustration (1)
		11 Advanced Graphic Design & Illustration (2)
		12 Animation (1)
	<i>Video Production</i>	9-12 Principles of Information Technology (1)
		9 Principles of Art, Audio Video Technology and Communications (1)
		10 Audio Video Production (1)
		11 Broadcasting I (1)
	12 Broadcasting II (1)	
	Fine Arts	9-12 Any four Art credits
		9-12 Any four Choir credits
		9-12 Any four Theatre credits
		9-12 Any four Dance/Drill credits
		9-12 Any four Band credits
Foreign Language	9-12 Any four Spanish credits	
	9-12 American Sign Language I, II (plus an additional two Spanish credits)	
Social Studies	9 World Geography (1)	
	10 World History (1)	
	11 US History (1)	
	12 Economics (1/2) / Government (1/2)	
	11-12 Pre-AP Psychology (1/2) / AP Psychology (1/2)	

* You must complete four credits in a pathway to earn the endorsement.

** Most courses are worth 1 credit; the numbers of credits is written in parentheses to the right of the course.

STEM <small>(must complete Algebra II, Chemistry and</small>	Science <small>(must complete Chemistry, Physics and two additional advanced science courses)</small>	9	IPC or Biology PreAP (1)
		10	Biology/PreAP (if taken IPC) (1)
		10	IPC (if taken Biology) (1)
		10-12	Chemistry (1)
		10-12	Physics (1)
		11-12	Aquatic Science (1)
		11-12	Astronomy (1)
		11-12	Environmental Systems (1)
		11-12	AP Biology (1)
		11-12	AP Chemistry (1)
		11-12	AP Environmental Science (1)
		11-12	AP Physics I (1)
		11-12	AP Physics II (1)
		11-12	AP Physics C (1)
		11-12	Anatomy and Physiology (1)
	11-12	Forensic Science (1)	
	11-12	Advanced Animal Science (1)	
	11-12	Engineering Design & Problem Solving (1)	
	8-12	Principles of Information Technology (1)	
	8-10	Fundamentals of Computer Science (1)	
10	Computer Science I (1)		
11	Computer Science II (1)		
12	Web Technologies (1)		
Engineering	9	Concepts of Engineering & Technology (1)	
	10	Introduction to Engineering Design (1)	
	11-12	Principles of Engineering Design (1) (coming 2017-2018)	
Mathematics <small>(must complete two additional advanced courses with Algebra II as a pre-req)</small>	11-12	Engineering Design and Development (1) (coming 2018-2019)	
	8-10	Algebra I (with lab) (2)	
	8-10	Algebra I Pre-AP (1)	
	8-10	Geometry (1)	
	8-10	Geometry Pre-AP (1)	
	11-12	Algebra II (1)	
	11-12	Pre-Calculus (1)	
	11-12	AP Calculus AB (1)	
	11-12	Independent Study of Mathematics (Algebra III) (1)	
	12	Math Applications in Agriculture (1)	
	12	Algebraic Reasoning (1)	
	12	Statistics & Risk Management (1)	
12	Dual College Algebra (see 5th math or concurrent) (1)		
Multidisciplinary Studies	Multidisciplinary Studies		Four advanced course that prepare a student to enter the workforce successfully or post secondary education without remediation from within one or more endorsement areas that are not in a coherent sequence.
			Four credits in each of the foundation subject areas to include English IV and Chemistry and/or Physics.
			Four credits in advanced placement, International Baccalaureate, or dual credit selected from English, mathematics, science, social studies, economics, languages other than English, or fine arts.

* You must complete four credits in a pathway to earn the endorsement.
 *** Most courses are worth 1 credit; the numbers of credits is written in parentheses to the right of the course.

Business & Industry Endorsement

The Business and Industry endorsement is a curriculum path that allows a student to focus deeply on courses directly related to the business field.

The Business & Industry endorsement requires completion of credits in at least one career cluster, selected from:

- Agriculture, Food & Natural Resources
- Architecture and Construction
- Business
- Finance
- Hospitality and Tourism

A Business & Industry endorsement in the areas listed above requires a progressive sequence of 4 credits in at least one of the bulleted courses of study.

Agriculture, Food & Natural Resources

The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fuel, fiber, wood products, natural resources, horticulture and other plant and animal products/resources.

Animal Science

Principles of Agriculture, Food & Natural Resources (0019831/13000200)

Prerequisite(s): None

Grade: 9–12

Credit(s): 1

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

Small Animal Management (0019834/13000400)

Prerequisite(s): Livestock Production

Grade(s): 10-12

Credit(s): 1/2

To be prepared for careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements,

and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings. Suggested small animals which may be included in the course of study include, but are not limited to, small mammals, amphibians, reptiles, avian, dogs, and cats.

Livestock Production (0019833/13000300)

Prerequisite(s): Principles of Agriculture, Food & Natural Resources
Grade(s): 10-12
Credit(s): 1/2

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems and 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.

Wildlife, Fisheries & Ecology Management (0019061/13001500)

Prerequisite(s): Principles of Agriculture, Food & Natural Resources
Grade(s): 10-12
Credit(s): 1

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

Certifications: \$20.00 for each course-Hunters Education Course, Boaters Education Course and Angler Education.

Veterinary Medical Applications (0019839/13000600)

Prerequisite(s): Livestock Production/Small Animal Management
Grade(s): 11-12
Credit(s): 1

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills

and technologies in a variety of settings. Topics covered in this course include, but are not limited to, veterinary practices as they relate to both large and small animal species.

Advanced Animal Science (may count as 4th year of science) (0019841/13000700)

Prerequisite(s): Veterinary Medical Applications

Grade(s): 12

Credit(s): 1

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

Certifications: \$30.00 for each exam-American Meat Science, Equine & Principles of Livestock Selection

Mathematical Application in AFNR (may count as 4th year of math)(0019829/13001000)

Prerequisite(s): Principles of Agriculture, Food & Natural Resources

Grade(s): 12

Credit(s); 1

To be prepared for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. Students should apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources. To prepare for success, students are afforded opportunities to reinforce, apply, and transfer their knowledge and skills related to mathematics in a variety of contexts.

Horticulture Science

Principles of Agriculture, Food & Natural Resources (0019831/13000200)

Prerequisite(s): None

Grade: 9–12

Credit(s): 1

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

Principles & Elements of Floral Design (0019843/13001800)

Prerequisite(s): Principles of Agriculture Food & Natural Resources

Grade: 10-12

Credit(s): 1

To be prepared 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. To prepare for success, students need opportunities to learn, reinforce, apply and transfer their knowledge and skills and technologies in a variety of settings. This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises.

Certification: \$100.00 for exam-Texas Master Florist

Landscape Design & Turf Grass Management (0019847/13001900)

Prerequisite(s): Principles of Agriculture Food & Natural Resources

Grade(s): 10-12

Credit(s): 1

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

Horticulture Science (0019845/13002000)

Prerequisite(s): Principles of Agriculture Food & Natural Resources

Grade(s): 10-12

Credit(s): 1

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

Mathematical Application in AFNR (may count as 4th year of math)(0019829/13001000)

Prerequisite(s): Principles of Agriculture, Food & Natural Resources

Grade(s): 12

Credit(s); 1

To be prepared for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. Students should apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources. To prepare for success, students are afforded opportunities to reinforce, apply, and transfer their knowledge and skills related to mathematics in a variety of contexts.

Agricultural Mechanics

Agricultural Mechanics and Metal Technologies) (0019835/13002200)

Prerequisite(s): Principles of Agriculture, Food & Natural Resources

Grade(s): 10–12

Credit(s): 1

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

Agricultural Facilities Design & Fabrication (0019837/13002300)

Prerequisite(s): Principles of Agriculture, Food & Natural Resources

Grade(s): 11–12

Credit(s): 2

To be prepared for careers in agricultural power, structural, and technical systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to agricultural power, structural and technical systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and technical skills in a variety of settings. This course is designed to develop an understanding of agricultural power systems, metal fabrication techniques, agricultural structures, electrical controls, and land and water management systems.

Mathematical Application in AFNR (may count as 4th year of math)(0019829/13001000)

Prerequisite(s): Principles of Agriculture, Food & Natural Resources

Grade(s): 12

Credit(s): 1

To be prepared for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. Students should apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources. To prepare for success, students are afforded opportunities to reinforce, apply, and transfer their knowledge and skills related to mathematics in a variety of contexts.

Practicum in AFNR

Prerequisite(s): Agricultural Facilities Design & Fabrication

Grade(s): 12

Credit(s): 2

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources cluster. The practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories.

Architecture and Construction

Careers in designing, planning, managing, building and maintaining the built environment

Principles of Architecture and Construction (001930/13004200)

Prerequisite(s): None

Grade(s): 9-10

Credit(s): 1

Principles of Architecture and Construction will provide an overview to the various fields of architecture, interior design, construction science, and construction technology. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, educational, and career information to set and achieve realistic career and educational goals. Job-specific, skilled training can be provided through the use of training modules to identify career goals in trade and industry areas. Safety and career opportunities are included, in addition to work ethics and job-related study in the classroom such as communications; problem solving and critical thinking; Information Technology Applications; systems; safety, health, and environmental; leadership and teamwork; ethics and legal responsibilities; employability and career development; technical skills; introduction to hand tools; introduction to power tools; basic rigging; and reading technical drawings

Construction Technology (001931/13005100)

Prerequisite(s): Principles of Architecture and Construction (*or in grade 11 or 12*)

Grade(s): 10-12

Credit(s): 1

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

Construction Management (0019928/13004900)

Prerequisite(s): Algebra I, Geometry, and Principles of Architecture and Construction.

Grade(s): 10-12

Credit(s): 1

In Construction Management, students gain knowledge and skills specific to those needed to enter the work force as carpenters or building maintenance supervisors or build a foundation toward a postsecondary degree in architecture, construction science, drafting, or engineering. Construction Management includes the knowledge of the

design techniques and tools related to the management of architectural and engineering projects.

Practicum in Construction Management (0019929/13006200) (coming in 2017-2018)

Prerequisite(s): Construction Management

Grade(s): 12

Credit(s): 2

Practicum in Construction Management is an occupationally specific course designed to provide classroom technical instruction or on-the-job training experiences. Safety and career opportunities are included in addition to work ethics and job-related study in the classroom.

Business Management & Administration

Careers in planning, organizing, directing and evaluating business functions

Principles of Business, Marketing and Finance (0019895/13011200)

Prerequisite(s): None

Grade(s): 9-10

Credit(s): 1

In 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 to a variety of interesting and relevant activities, problems and settings in business, marketing, and finance.

Business Management (0019896/13012100)

Prerequisite(s): Principles of Business, Marketing and Finance

Grade(s): 10-12

Credit(s): 1

Students recognize, evaluate, and prepare for a rapidly evolving global business environment that requires flexibility and adaptability. Students analyze the primary functions of management and leadership, which are planning, organizing, staffing, directing or leading, and controlling. Topics will incorporate social responsibility of business and industry. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent managers, employees, and entrepreneurs. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate management decisions

Business Law (0019890/13011700)

Prerequisite(s): Business Management

Grade: 11-12

Credit(s): 1

Students analyze the social responsibility of business and industry regarding the significant issues relating to the legal environment, business ethics, torts, contracts, negotiable financial instruments, personal property, sales, warranties, and business organizations, concept of agency and employment, and real property. Students apply technical skills to address business applications of contemporary legal issues. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

Business English (0019894/1311600) (may count as 4th year of English)

Prerequisite(s): Business Law

Grade: 12

Credit(s): 1

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

Finance

Careers in financial and investment planning, banking, insurance and business financial management

Principles of Business, Marketing and Finance (0019895/13011200)

Prerequisite(s): None

Grade(s): 9-10

Credit(s): 1

In 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 to a variety of interesting and relevant activities, problems and settings in business, marketing, and finance.

Accounting I (0019740/13016600)

Prerequisite(s): Principles of Business, Marketing, & Finance

Grade(s): 10-12

Credit(s): 1

Students investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on the is knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information. Students formulate and interpret financial information for use in management decision making.

Accounting II (0019742/13016700)

Prerequisite(s): Accounting I

Grade(s): 11-12

Credit(s): 1

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

Money Matters (0019889/13016200)

Prerequisite(s): Principles of Business, Marketing, & Finance

Grade: 12

Credit(s): 1

Students will investigate global economics with emphasis on the free enterprise system and its impact on consumers and businesses. Students can apply critical-thinking-skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to set long-term financial goals based on those options. Students will determine methods if achieving long-term financial goals through investment, tax planning, asset allocation, risk management, retirement planning, and estate planning.

Statistics and Risk Management (0012314/13016900) (may count as 4th year of math)

Prerequisite(s): Accounting I and Algebra II

Grade(s): 12

Credit(s): 1

Students will use a variety of graphical and numerical techniques to analyze patterns and departures from patterns to identify and manage risk that could impact an organization. Students will use probability as a tool for anticipating and forecasting data within business models to make decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.

Hospitality and Culinary

Hospitality and Tourism encompasses the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel related services.

Principles of Human Services (0019826/13024200)

Prerequisite(s): None
Grade: 9-10
Credit(s): 1

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

Culinary Arts (0019867/13022600)

Prerequisite(s): Principles of Human Services (*or be in grade 11 or 12*)
Grade(s): 10-12
Credit(s): 1

Culinary Arts is a career-preparation focused course for students interested in culinary arts. Instruction focuses on basic food production and identification, food safety, food presentation and service techniques, and operation and management of foodservice establishments. Students will participate in a variety of catering experiences for the school community. Students will take the ServSafe Food Handlers State Exam.

Certification: \$20.00 for exam-ServSafe Food Handlers State Exam

Required: Chef hat \$16.00

Practicum in Culinary Arts (0019869/13022700)

Prerequisite(s): Culinary Arts -- Application Process / ServSafe Food Handlers Certificate and Instructor Approval
Grade(s): 11-12
Credit(s): 2

Practicum in Culinary Arts is designed to be a continuation of the Culinary Arts program. Students continue to refine their knowledge and skills required for careers in the restaurant, food, and beverage industry. Students are taught employability skills, which include job-specific skills applicable to their training plan, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Students will participate in a variety of catering experiences for the school community. Students can pursue a National Management Certification and

other appropriate industry certifications. Students will run and operate the Nest Café on campus. Students MUST have a current ServSafe Foodhandlers Certificate.

Certification: \$36.00 for exam-Food Protection Manger

Required: Purchase Complete Chef Uniform \$60 - \$75

Restaurant Management

Prerequisite(s): Practicum in Culinary Arts -- Application Process / ServSafe Food Handlers Certificate and Instructor Approval

Grade(s): 11-12

Credit(s): 1

Restaurant Management is designed to be a continuation of the Culinary Arts program. This course will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Students will plan and direct the Nest Café on campus. Students MUST have a current ServSafe Food handlers Certificate. Students are encouraged to take the National Food Protection Management Certification Exam and obtain the OSHA Safety Certification offered in this class. Students will participate in extended learning experiences and compete in culinary competitions.

Certification: \$40 for exam - National Food Protection Management

Certification: \$40 for exam - OSHA Safety Certification

Required: Purchase Manager uniform shirt \$20-25

Public Services Endorsement

The Public Services endorsement is a curriculum path that allows a student to focus deeply on courses directly related to the public services field, including the education field and government. There is a wide range of careers available in the public services sea or, including serving as a police officer, firefighter, government official, human resources administrator or teacher.

The Public Services endorsement requires completion of credits in at least one career cluster, selected from:

- Education and Training
- Health Sciences
- Cosmetology
- Law, Public Safety, Corrections & Security
- JROTC (Junior Reserve Officer Training Corps)

A Public Services endorsement requires a progressive sequence of 4 credits in at least one of the bulleted courses of study.

Education & Training

Planning, managing and providing education and training services, and related learning support services

Principles of Human Services (0019826/13024200)

Prerequisite(s): None
Grade: 9-10
Credit(s): 1

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

Child Development (0019923/13024700)

Prerequisite(s): Principles of Human Services (or in co-enrolled in Instructional or Practicum in Education)
Grade(s): 10 -12
Credit(s): ½

This course addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development

skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children. Students are encouraged to participate in FCCLA or TAFE as a part of this course.

*Certification: \$6.00 for course and exam-CPR; \$10.00 for exam-Childcare
Students may fundraise to cover the cost of the exams.*

Interpersonal Skills (0019924/13024400)

Prerequisite(s): Principles of Human Services (or in co-enrolled in Instructional or Practicum in Education)

Grade(s): 10 -12

Credit(s): ½

This course examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services.

*Certification: \$6.00 for course and exam-CPR; \$10.00 for exam-Childcare
Students may fundraise to cover the cost of the exams.*

Instructional Practice in Education & Training (0019234/13014400)

Prerequisite(s): Child Development – Application process

Grade(s): 11-12

Credit(s): 2

Instructional Practices in Education and Training is a field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators or trainers in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

Attendance must be maintained. Students are responsible for transportation to and from other school campuses. Upon completion of Instructional Practice and Practicum courses, students will be awarded a health and speech Credit(s) if needed. No Credit(s) will be awarded if only one of these two courses is completed. Credit(s) for health and speech will be awarded on a Pass or Fail basis. Student transcript will reflect “P” for the Credit(s) awarded. No GPA points will be added.

Requirements: *Students are required to join the Texas Association of Future Educators. The membership fee for this is \$15. Students will also be required to purchase a uniform shirt for the field site days. This shirt will cost \$15. Members are able to fundraise to cover these costs.*

Practicum in Education & Training (0019236/13014500)

Prerequisite(s): Instructional Practice in Education & Training
Grade: 12
Credit(s): 2

Practicum in Education and Training is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of classroom teachers, trainers, paraprofessionals, or other educational personnel. It will provide an opportunity for students to work in elementary and middle school classroom settings. Students will rotate classrooms in order to see a variety of grade levels and subjects. During their rotation, they will plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical classroom arrangements and discover the responsibilities of a classroom teacher.

Attendance must be maintained. Students are responsible for transportation to and from other school campuses. Upon completion of Instructional Practice and Practicum courses, students will be awarded a health and speech Credit(s) if needed. No Credit(s) will be awarded if only one of these two courses is completed. Credit(s) for health and speech will be awarded on a Pass or Fail basis. Student transcript will reflect "P" for the Credit(s) awarded. No GPA points will be added.

Requirements: *Students are required to join the Texas Association of Future Educators. The membership fee for this is \$15. Students will also be required to purchase a uniform shirt for the field site days. This shirt will cost \$15. Members are able to fundraise to cover these costs.*

Health Science

Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development

Principles of Health Science (0019825/13020200)

Prerequisite(s): None
Grade(s): 10-12
Credit(s): 1

This course is designed to give an overview of the various systems of the health care industry. Studies are designed to develop knowledge about health careers, ethical and legal responsibilities, safety, and anatomy of body systems as they relate to wellness and illness. Development in the use of medical terminology and abbreviations, CPR and First Aid, vital signs, and infection control also prepare the student for clinical based experience.

HOSA (Health Occupations Students of America) is a student led leadership organization. Dues include national, state, and chapter dues as well as a chapter shirt. All activities, community service, and competitive events are related to the health care field. Membership is not required, but recommended. Cost: \$45 HOSA dues (not required)

Health Science (double blocked 6th & 7th Periods) (0019827/13020400)

Prerequisite(s): Principles of Health Science, application approval
Grade Level: 11-12
Credit(s): 2

This course is designed to provide students the experience to **observe** health care professionals in a professional setting. After nine weeks of study in the classroom, students will apply the knowledge they have learned in the classroom at various clinical settings at Memorial Hermann Northeast Hospital and other local health care facilities. Clinical rotations are three days a week and students are allowed to drive with parent permission.

Students are required to be HOSA members in good standing. Dues include national, state, and chapter dues as well as a chapter shirt. Students are expected to run blood drives, be involved in community service projects, and enter a HOSA competitive event.

Requirements: \$40 scrubs; \$45 HOSA dues

Health Science Practicum (0019828/13020500)

Prerequisite(s): Principles of Health Science, Application Approval
Grade(s): 12
Credit(s): 2

Practicum-Phlebotomy (Fall semester; double blocked 1st & 2nd Periods)

This course is for seniors who are interested in obtaining an additional certification in phlebotomy. A phlebotomist typically draws blood from patients in hospitals, blood centers, or similar facilities for analysis or other medical purposes. This course has an on-line component provided by the National Health Career Association which includes study materials, practice exams and a nationally recognized certification. A hands-on component will have students utilizing simulated veins to learn basic phlebotomy skills before drawing blood on each other. Other opportunities to practice blood draws will be made available.

Students are required to be HOSA members in good standing. Dues include national, state, and chapter dues as well as a chapter shirt. Students are expected to run blood drives and be involved in community service projects.

Certification: \$161 for course and exam-Phlebotomy; \$45 HOSA dues

Practicum-Certified Administrative Medical Assistant

(Spring semester; double blocked 1st & 2nd Periods)

Medical Administrative Assistants typically perform routine administrative tasks to help keep the physicians' offices and clinics running efficiently. This is an online course provided by the National Health Career Association and includes study materials, practice exams and a nationally recognized certification

Students are required to be HOSA members in good standing. Dues include national, state, and chapter dues as well as a chapter shirt. Students are expected to run blood drive and be involved in community service projects.

Certification: \$56 study materials; \$105-CMAA Exam; \$45 HOSA dues

Anatomy & Physiology (0013401/13020600)

Prerequisite(s): Biology

Grade(s): 10-12

Credit(s): 1

This is an advanced course designed to give students a thorough knowledge of both the structure and function of the human body. Laboratory work is an integral part of the course. A large percentage of class time is devoted solely to cat dissection. The course is divided into five principal areas of concentration: organization, support and movement, control systems, maintenance, and continuity

Cosmetology

Students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers.

Principles of Human Services (0019826/13024200)

Prerequisite(s): None
Grade: 9-10
Credit(s): 1

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

Cosmetology I & II will be offered at Lee College. Students interested in the program will have to take the TSI Reading portion of the college entrance TSI exam. Program acceptance will be based on the qualifying minimum score of 342. The total cost for the 2-year program is approximately \$1,400.00. Lee College will work with the students to find internships during their coursework/training prepare them for the state exam, assist in registering the students for the state exam, and assist in finding them employment. The program hours for HHS students will be Monday-Friday. 1:00-4:00 p.m. Huffman Independent School District will provide transportation to and from Lee College, returning at Hargrave High School at 5:00 p.m. Transportation from HHS after school hours will be the responsibility of the parent.

Cosmetology I (CSME 1505, 1254, 1453, 1410) (0019862/13025200)

Grade: 11
Credit(s): 3

Students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the Texas Department of Licensing and Regulations requirements for licensure upon passing the state examination. Analysis of career opportunities, requirements, expectations, and development of workplace skills are included.

Cosmetology II (CSME 2401, 1255, 2410, 2441) (0019863/13025300)

Prerequisite: Cosmetology I
Grade: 12
Credit(s): 3

Students review academic knowledge and skills related to cosmetology. This course is designed to provide advanced training for employment in cosmetology careers. Instruction includes advanced training in sterilization and sanitation processes, hair care, nail care, and skin care and meets the Texas Department of Licensing and Regulation requirements for licensure upon passing the state examination. Students apply, combine, and justify knowledge and skills to a variety of settings and problems.

Law, Public Safety, Corrections & Security

Careers in planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services

Principles of Law, Public Safety, Corrections & Security (0019908/13029200)

Prerequisite(s): None
Grade: 9-10
Credit(s): 1

Introduces students to professions in law enforcement, security, corrections, and fire and emergency management services. Students will examine 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, security, and corrections.

Law Enforcement I

Prerequisite(s): Principles of Law, Public Safety, Corrections, and Security
Grade: 10-12
Credit(s): 1

Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. This course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, and the classification and elements of crime.

Law Enforcement II

Prerequisite(s): Law Enforcement I
Grade: 11-12
Credit(s): 1

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

Forensic Science (0013344/13029500)

Prerequisite(s): Biology, Chemistry

Grade(s): 11-12

Credit(s): 1

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

Arts & Humanities Endorsement

The Arts and Humanities endorsement is a curriculum path that allows for a student to focus deeply on courses directly related to fine arts, English literature, foreign languages and social studies. Students interested in pursuing a career path in the entertainment industry or as an interpreter, or writer.

The Arts & Humanities endorsement may be earned through completion of at least one of the following:

- Five courses in social studies; or
- Two levels/credits of one language in a Language Other than English; and two levels/credits of a second language in a Language Other than English; or
- A progressive sequence of four credits, selected from one or two Fine Arts disciplines, including Art, Dance, Music, and Theatre

The Arts and Humanities endorsement requires completion of at least one of the bulleted courses of study.

Arts, A/V Technology and Communications

Careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services

Graphic Design

Principles of Arts, Audio/Video Technology, and Communication

(0019340/13008200)

Prerequisite(s): None

Grade(s): 9

Credit(s): 1

Careers in the Arts, Audio/Video Technology, and Communications career cluster require, in addition to creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

Principles of Information Technology (0019345/13027200)

Prerequisite(s): None

Grade(s): 9-12

Credit(s): 1

Students develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment

Graphic Design & Illustration (13008800/1308800)

Prerequisite(s): Principles of Arts, AV Tech & Communication/Principles of Information Technology

Grade(s): 10-12

Credit(s): 1

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing knowledge and skills needed for success in the Arts, A/V Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design. Graphic design history, media literacy, basic advertising, and employability skills will be incorporated.

Advanced Graphic Design & Illustration (0019904/13008900)

Prerequisite(s): Graphic Design and Illustration

Grade(s): 11-12

Credit(s): 2

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, A/V Technology, and Communications career cluster, students will be expected to develop an advanced understanding of the industry with a focus on mastery of content knowledge and skills.

Animation (0019694/13008300)

Prerequisite(s): Advanced Graphic Design & Illustration

Grade: 11-12

Credit(s): 1

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

Video Production

Principles of Arts, Audio/Video Technology, and Communication

(0019340/13008200)

Prerequisite(s): None

Grade(s): 9

Credit(s): 1

Careers in the Arts, Audio/Video Technology, and Communications career cluster require, in addition to creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

Principles of Information Technology (0019345/13027200)

Prerequisite(s): None

Grade(s): 9-12

Credit(s): 1

Students develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment

Audio/Video Production (0019903/13008500)

Prerequisite(s): Principles of Arts, A/V Technology, and Communication/Principles of Information Technology

Grade(s): 10-12

Credit(s): 1

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, A/V Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video activities.

Broadcasting I (0019300/N1300991)

Prerequisite(s): Audio/Video Production

Grade(s): 10-12

Credit(s): 1

This course is designed to provide job-specific training for entry-level employment in movie, video and television production careers. First-year instruction includes operation of different types of cameras, mastery of audio techniques, electronic editing and creation media graphics, lighting, script writing, direction, production, special effects, signal control and monitoring equipment in movie, video and television production careers. Students will create and present weekly news broadcasts for Hargrave High School.

Broadcasting II (0019301/N1300992)

Prerequisite(s): Broadcasting I

Grade(s): 11-12

Credit(s): 1

Instruction is designed to provide job-specific training for entry-level employment in movie, video, and television production careers. Students are expected to know the operation of different types of cameras, mastery of audio techniques, electronic editing, and creation of media graphics, lighting, script writing, direction, production, special effects, signal control and monitoring equipment in movie, video, and television production careers. Students will create and present weekly news broadcasts for Hargrave High School.

STEM Endorsement

The Science, Technology, Engineering and Math (STEM) endorsement is a curriculum path that allows a student to focus deeply on courses directly related to science, technology, engineering and advanced math. There is a wide range of careers available in the required STEM field, including: engineering, computer programming, software developer, and research scientist.

STEM requires completion of Algebra II, Chemistry, and Physics. The STEM endorsement includes courses of study related to:

- Advanced science courses beyond Chemistry and Physics; or
- Advanced math courses for which Algebra II is a prerequisite; or
- A cross-disciplinary study of advanced math and advanced science; or
- Computer Science / Computer Programming

Engineering

Careers in planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development service

Concepts of Engineering & Technology (0019850/13036200)

Prerequisite(s): None
Grade: 9
Credit(s): 1

Concepts of Engineering and Technology provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will use a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will have an understanding of the various fields and will be able to make informed decisions regarding a coherent sequence of subsequent courses. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.

Project Lead the Way Program

PLTW is about applying science, technology, engineering, and math through a project-based, hands-on approach to solve complete, open-ended problems in a real-world context.

Introduction to Engineering Design

Prerequisite(s): Concepts of Engineering & Technology
Grade(s): 10
Credit(s): 1

Students dig deep into the engineering process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software and use an engineering notebook to document their work.

Principles of Engineering Design (*can count as a Science Credit*)

Prerequisite(s): Introduction to Engineering Design
Grade(s): 11
Credit(s): 1

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strengths of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

Engineering Design and Development

Prerequisite(s): Principles of Engineering Design
Grade(s): 12
Credit(s): 1

The knowledge and skills students acquire throughout PLTW Engineering come together in EDD as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of practicing engineers. Students apply the professional skills they have developed to document a design process, and they complete EDD ready to take on any post-secondary program or career.

Engineering Design and Problem Solving (0013350/13037300)

Prerequisite(s): Concepts of Engineering & Technology
Grade(s): 10-12
Credit(s): 1

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

Technology

Careers in design, development, support and management of hardware, software, multimedia and systems integration services

Principles of Information Technology (0019345/13027200)

Prerequisite(s): None
Grade(s): 9-12
Credit(s): 1

Students develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment

Web Technologies (0019901/13027900)

Prerequisite(s): Principles of Information Technology
Grade(s): 10-12
Credit(s): 1

The technology applications curriculum has six strands based on the National Educational Technology Standards for Students (NETS•S) and performance indicators developed by the International Society for Technology in Education (ISTE): creativity and innovation; communication and collaboration; research and information fluency; critical thinking, problem solving, and decision making; digital citizenship; and technology operations and concepts. This is an introductory course in web design.

Fundamentals of Computer Science (0019902/03580140)

Prerequisite(s): Principles of Information Technology
Grade(s): 10-12
Credit(s): 1

Fundamentals of Computer Science is intended as a first course for those students just beginning the study of computer science. Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn the problem-solving and reasoning skills that are the foundation of computer science. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations and concepts.

Computer Science I (0019906/03580300)

Prerequisite(s): Fundamentals of Computer Science
Grade(s): 11
Credit(s): 1

Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts.

Computer Science II (0019909/03580300)

Prerequisite(s): Computer Science I
Grade(s): 12
Credit(s): 1

Computer Science II will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of computer science through the study of technology operations, systems, and concepts.

Other Career and Technical Education Electives:

Career Preparation (0019860/12701300)

Prerequisite(s): None
Grade(s): 12
Credit(s): 2

Career Preparation I provide opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. This instructional arrangement should be an advanced component of a student's individual program of study. Students are taught employability skills, which include job-specific skills applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant, rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

Professional Communication (District Requirement – Speech) (0019927/1300900)

Prerequisite(s): None
Grade(s): 11 – 12
Credit(s): ½ Credit(s) only

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