

Palestine High School



Course Guide 2018 – 2019

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Course Guide

2018 – 2019

Palestine High School
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GENERAL INFORMATION

The Palestine High School Course Guide has been designed to provide course selection information for the 2018 – 2019 school year. Students are encouraged to consult with parents, counselors and teachers for assistance in selecting courses that will meet personal needs for the future as well as satisfy high school graduation requirements.

The course guide describes academic, elective and technical offerings planned for Palestine High School in 2018 – 2019. This material is published early in the preceding school year, so some changes in procedure, policy, or course offerings may be required. Students and parents may access updates on the PISD website.

Information in this publication is subject to changes by action of the Board of Trustees of the Palestine Independent School District or the Texas Education Agency. Palestine High School reserves the right to add courses not described herein and to delete courses described if minimum enrollment criteria are not met or if certified teachers are not available.

A variety of guidance and counseling services are offered to the students of Palestine High School. Counselors work with students, parents and teachers to select appropriate courses for graduation. Other student services are designed to aid students throughout the school year.

Students interested in colleges or vocational schools may use the college information found in the PHS College and Career Center in the counseling center. The Internet is also available to students and parents. Websites contain national information about two and four-year colleges, technical schools, graduate and professional schools, as well as civilian and armed services careers and sources of financial aid. A financial aid workshop is offered to parents and students in addition to a college day each spring.

For more information, please contact your student's counselor at 903-731-8005.

GRADUATION REQUIREMENTS

There are three graduation plans approved by the State of Texas and Palestine Independent School District for students entering high school prior to the 2014-15 school year. All high school transcripts of these graduating seniors will have seals attached recording one of the three following notations:

- Distinguished Achievement Program
- Recommended High School Program
- Minimum High School Program

There are three graduation plans approved by the State of Texas and Palestine Independent School District for students entering high school after 2014-15 school year. All high school transcripts of these graduating seniors will have seals attached recording one of the three following notations:

- Foundation High School Program
- Foundation High School Program Plus Endorsement
- Distinguished Level of Achievement

ADDITIONAL GRADUATION REQUIREMENTS

STATE OF TEXAS ASSESSMENTS OF ACADEMIC READINESS (S.T.A.A.R.)

Students must achieve a level II passing standard on all 5 STAAR EOC exams. STAAR EOC assessments will be administered in the four content areas:

English/Language Arts: English I, English II
Math: Algebra I
Science: Biology
History: US History

Students Receiving Special Education Services on the Minimum Plan

In addition, other students served by special education graduating under the minimum plan will take STAAR-A or STAAR Alternate assessments. These students automatically default to the minimum requirements as determined by each student's ARD committee.

GRADE LEVEL CLASSIFICATION

Promotion is based solely on academic achievement, with a passing grade of 70 and 90% attendance required to earn credit. Any required course failed during the school year should be retaken in summer school, by correspondence course or through credit-by-exam. Classifications for the 2018-2019 school year as determined by credits are:

Freshmen...up to 5.5 credits
Sophomore...6 credits
Junior...13 credits
Senior...20 credits

EARLY GRADUATES

With the increase in credits required for graduation it is rarely possible for a student to graduate in three years. In extenuating circumstances students wishing to graduate early must request permission from the campus administrator and consult with the counselor. Students who graduate early will follow the graduation plan for the year they entered high school but will be ranked with the graduating class.

GRADUATION PROGRAMS

Students entering in 2012-2013 and thereafter

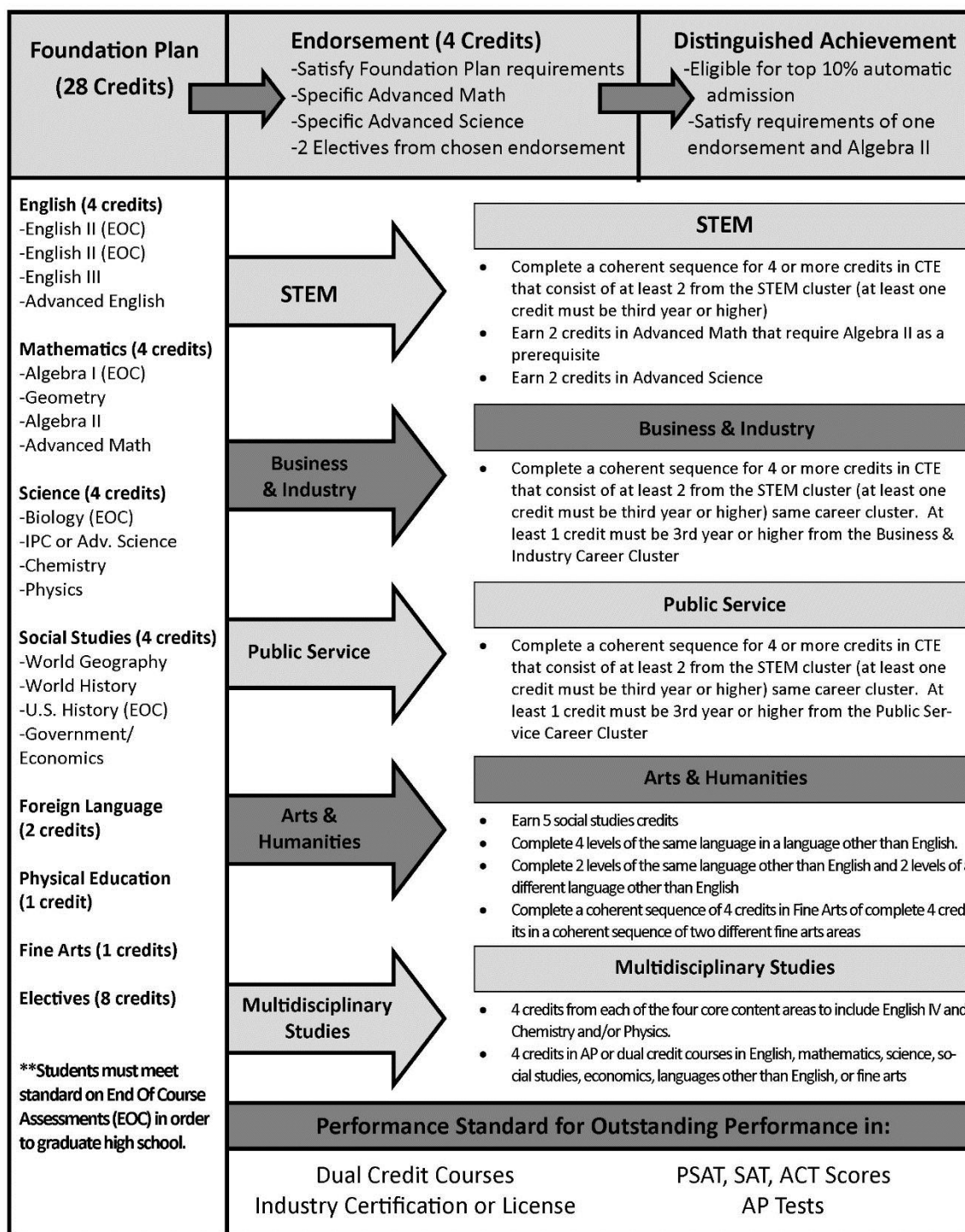
	MINIMUM HIGH SCHOOL PROGRAM	RECOMMENDED HIGH SCHOOL PROGRAM	DISTINGUISHED ACHIEVEMENT PROGRAM**
English/ Language Arts	4 credits: English I, II, III, and IV	4 credits: English I, II, III, and IV	4 credits: English I, II, III, and IV
Mathematics	3 credits: Must include Algebra I and Geometry The 3 rd Math credit must be either Math Models or Algebra II	4 credits: Must consist of Algebra I, Algebra II, Geometry and a 4 th Math Note: If Math Models is taken as one of the 4 math courses, it must be taken prior to Algebra II	4 credits: Must consist of Algebra I, Algebra II, Geometry and a 4 th Math Note: Math Models will not count toward DAP Math
Science	2 credits: Biology and IPC May substitute Chemistry or Physics for IPC, but must use the other as the Academic Elective Credit	4 credits: Biology, Chemistry, Physics and a 4 th Science course Note: If IPC is taken, it must be completed prior to Chemistry and Physics	4 credits: Biology, Chemistry, Physics and a 4 th Science
Social Studies	2.5 credits: Must consist of World Geography or World History, U.S. History and U.S. Government	3.5 credits: Must consist of World Geography, World History, U.S. History and U.S. Government	3.5 credits: Must consist of World Geography, World History, U.S. History and U.S. Government
Economics	0.5 credit: Emphasis on the free enterprise system	0.5 credit: Emphasis on the free enterprise system	0.5 credit: Emphasis on the free enterprise system
Academic Elective	1 credit: One of the following: World History; World Geography; or state approved science course. Note: If substituting Chemistry or Physics for IPC, the academic elective must be the other of these two science courses.	None Required	None Required
Physical Education	1 credit: Any combination of the following: Foundations of Personal Fitness, Aerobic Activities, Team Sports, Individual Sports, Athletics, Marching Band; Dance Team, or Cheerleading	1 credit: Any combination of the following: Foundations of Personal Fitness, Aerobic Activities, Team Sports, Individual Sports, Athletics, Marching Band; Dance Team, or Cheerleading	1 credit: Any combination of the following: Foundations of Personal Fitness, Aerobic Activities, Team Sports, Individual Sports, Athletics, Marching Band; Dance Team, or Cheerleading
Languages other than English	None Required	2 credits: Must consist of any two levels in the same language	3 credits: Must consist of any three levels in the same language
Fine Arts	1 credit: One full credit from any of the following: Art, Band, Choir, Theater or Principles & Elements of Floral Design	1 credit: One full credit from any of the following: Art, Band, Choir, Theater, or Principles & Elements of Floral Design	1 credit: One full credit from any of the following: Art, Band, Choir, Theater, or Principles & Elements of Floral Design
Speech	0.5 credits: One of the following: Communications Applications or Professional Communications	0.5 credits: One of the following: Communications Applications or Professional Communications	0.5 credits: One of the following: Communications Applications or Professional Communications
Elective Courses	6.5 credits: Students who entered Grade 9 after 2010-2011	5.5 credits	4.5 credits
Local Requirement: Additional Credits	4 credits	2 credits	2 credits
Total Credits	26 credits	28 credits	28 credits

Students who wish to graduate on the Minimum High School Plan must obtain approval in accordance with House Bill 3. Students with disabilities who are enrolled in a state-mandated course as per the Admission, Review, and Dismissal Committee recommendations for graduation with modified curriculum shall graduate under the Minimum Graduation Plan.

** Distinguished Achievement Program requirements also include student achievement of four advanced measures.

GRADUATION PROGRAMS
Students entering in 2014-2015 and thereafter

PALESTINE HIGH SCHOOL STUDENTS ENTERING 2014-2015 AND BEYOND



CREDIT BY EXAM GUIDELINES (CBE)

Credit by Examination *WITHOUT* prior instruction/examinations for acceleration:

With Board approval, the District shall develop or purchase examinations for acceleration that thoroughly test the essential knowledge and skills for each secondary school academic subject. The District shall give a student in grades 6-12 credit for an academic subject in which the student has received no prior instruction if the student scores 80 percent or above on a criterion-referenced examination for acceleration for the applicable course. If such credit is given, the District shall enter the examination score on the student's transcript.

Credit by Examination *WITH* prior formal instruction:

A student with a 60 or higher grade in prior formal instruction may gain credit for the course by passing a proficiency examination on the essential knowledge and skills of the course. However, a student may not use this examination to regain eligibility to participate in extracurricular activities. The attendance committee may allow a student with excessive absences to receive credit for a course by passing an examination. The District shall give a student in grades 6-12 credit for an academic subject in which the student has received prior instruction if the student scores 70 percent or above on a criterion-referenced examination for acceleration for the applicable course. If such credit is given, the District shall enter the examination score on the student's transcript.

The dates for testing will be the first Tuesday and Wednesday of school in January, the Tuesday, Wednesday, and Thursday of the last week of school, the first Tuesday, Wednesday and Thursday of August and the last Monday, Tuesday, Wednesday, and Thursday of the school year in December.

Students who receive course credit through credit by examination ARE required to take the STAAR EOC.

GENERAL COLLEGE ENTRANCE REQUIREMENTS

Students who intend to go to college should complete the minimum of accredited units required for college admission. Students should check any testing requirements for their intended colleges. Information on ACT, SAT, and TSI tests is available in the counselors' office.

Note: Admission to a college or university is not based on the graduation plan but on the requirements for the particular college or university. College or university admission may also be based on grade point average, class rank, scores on college entrance exams, involvement in school and community activities, and/or other criteria deemed relevant by the university admission policy.

TSI REQUIREMENTS

The purpose of TSI is to ensure that all students enrolling in public higher education in Texas possess the academic skills needed to perform effectively in college-level coursework. TSI includes a testing component designed to identify and provide diagnostic information about the reading, writing, and mathematics skills of each student. A student may be exempt from TSI in the following ways:

ACT	19 Math	19 English	23 Composite
SAT	500 Math	500 Verbal	1070 Composite

COURSE CREDIT

Students receive credit for courses with a grade of 70% or better. According to state law, students must be in attendance 90% of the days a class is offered to receive credit. Students receiving an * for a class receive no credit due to absences. Students may attend Friday Night School to regain credit for classes they have passed.

All students are required to take a semester exam in each course in which they are enrolled for the year. All students who are classified as seniors may be exempt from the exam in a course if he/she meets the requirements listed below. Junior students who meet the same requirements will be eligible for exam exemptions during the spring semester only. In order for a student to be exempt from taking his/her exam, the student must adhere to the following:

- Not have been assigned to ISS or Friday Night School for disciplinary reasons for more than one day.
- No more than two absences with an 80-89 average or no more than three absences with a 90 or above average per semester.
- School sponsored absences are within the UIL 15-day limit and do not count against exemptions.
- Court appearances will be classified as an excused absence and count against exemptions.
- Exemptions will be determined on an individual class basis. There will be no opportunities to make up absences for exemption purposes.
- Exceptions may be made due to extenuating circumstances through an administrator's discretion.

LOCAL CREDIT COURSES

Local credit courses are courses approved by the Board of Trustees for local credit only. **These courses do not count toward state graduation requirements.** Local credit courses cannot be used to fulfill the minimum number of credits on any graduation plan.

PRE-AP COURSE

A Pre-AP course curriculum is enriched and accelerated and is based on introducing and developing College Board Strategies. Compared to regular classes, Pre-AP courses expect a greater retention and appreciation of prior knowledge, as well as a deeper understanding of the course topic. Pre-AP courses teach the skills necessary for success in AP courses, and students should expect extensive reading and writing assignments. Enrolling in a Pre-AP course is highly recommended for students who wish to take Advanced Placement courses in the future.

ADVANCED PLACEMENT PROGRAM

Advanced Placement courses are college-level courses that follow College Board Advanced Placement curriculum. These courses involve an extensive accumulation of knowledge in the field that is tested on the AP exam.

AP EXAMS

These examinations are structured to measure three areas: depth of knowledge, completeness of thought, and synthesis of ideas. Approximately 1,200 institutions award credit based on the student's AP examination scores. Exams are graded on a five-point scale with credit usually given for scores of three or higher. College credit is generally awarded upon a student's enrollment, although some institutions award sophomore standing only after a student has completed satisfactory work on campus. The score requirements and number of college credit hours or placement credit awarded varies among universities and colleges. Students should contact the universities they are interested in attending to find out their respective AP requirements. Currently students pay an AP examination fee per test in early spring. Fee waivers are available for students who qualify for them.

DUAL CREDIT PROGRAM

WILDCAT UNIVERSITY

Palestine High School, in cooperation with Trinity Valley Community College, offers dual credit courses on the high school campus through Wildcat University. Tenth grade students who have a 3.0 or higher GPA and meet TVCC's enrollment and testing requirements will have the opportunity to take one dual credit course per semester. Eleventh grade students who meet TVCC's enrollment criteria will have the opportunity to take up to four dual credit courses per semester. Twelfth grade students who meet TVCC's enrollment criteria will have the opportunity to take up to five dual credit courses per semester. Palestine High School may pay for some or all of the dual credit course(s) tuition and textbooks may be provided if the student meets the requirements for Wildcat University.

Dual credit courses may count for both high school and college credit upon successful completion of college courses with a minimum grade of "C". Students must take the TSI or be eligible for exemptions based on EOC, ACT or SAT scores. Students are encouraged to work with their counselor to choose the courses for which they are best suited. Registration forms and approved dual credit courses are available in the Counselors' office.

DUAL CREDIT COURSES

College Course	College Credit	College Course Title	PHS Course Title	High School Credit
ENGL 1301 ENGL 1302	6 hours	Composition & Rhetoric 1 Composition & Literature	English 3	1.0
ENGL 2322 ENGL 2323	6 hours	British Literature 1 British Literature 2	English 4	1.0
HIST 1301 HIST 1302	6 hours	U.S. History to 1877 U.S. History 1877 to present	US History	1.0
GOVT 2305	3 hours	Federal Government	Government	0.5
GOVT 2306	3 hours	Texas Government	Ind. Study - Soc. Studies	0.5
ECON 2301	3 hours	Principles of Macroeconomics	Economics	0.5
MATH 1314	3 hours	College Algebra	Statistics A	0.5
MATH 1342	3 hours	Intro to Statistics	Statistics B	0.5
MATH 2312	3 hours	Pre-Calculus	Pre-Calculus	1.0
MATH 2413	3 hours	Calculus	Calculus	1.0
BIOL 2401 BIOL 2402	8 hours	Anatomy & Physiology I Anatomy & Physiology II	Anatomy & Physiology	1.0
BIOL 1406 BIOL 1407	8 hours	Biology I Biology II	AP Biology	1.0
CHEM 1411 CHEM 1412	8 hours	Chemistry I Chemistry II	AP Chemistry	1.0
SPCH 1315	3 hours	Public Speaking	Speech	0.5
ARTS 1301	3 hours	Art Appreciation	Art Appreciation	1.0
MUSI 1310	3 hours	American Popular Music	Music Appreciation	1.0
SPAN 1411 SPAN 1412	8 hours	Elementary Spanish I Elementary Spanish II	Spanish 3 Pre-AP	1.0

Students planning to use college courses as a “Distinguished Measure” on the high school graduation plan must have a minimum grade of “B”.

The following courses are required to graduate “core complete” from TVCC.

COURSES	SEMESTER HOURS
ENGL 1301 & 1302	6
FREN 1411, 1412, SPCH 1311, 1315, 1321, SPAN 1411, 1412, 2311, 2312	3
MATH 1314, 1324, 1325, 1342, 1350, 1351, 2312, 2413, 2414, 2415	3
BIOL 1406, 1407, 2401, 2402, 2421, 2404, CHEM 1405, 1408, 1411, 1412, 2423, 2425, ENVR 1401, 1402, PHYS 1401, 1402, 1415, 1417, 2425, 2426	8
ENGL 2322, 2323, 2326, 2332, 2333, HUMA 1301, PHIL 1301, 1304, 1316, 1317, 2303, 2306, 2307, 2316, 2321	6
ARTS 1301, 1303, 1304, DRAM 1310, 2366, MUSI 1306, 1307, 1310	3
HIST 1301, 1302, 2301, 2327, 2328, HIST 1301, 1302 (either HIST 1301 or 1302 is req'd to satisfy 3 hrs of requirement)	6
GOVT 2305 & 2306	6
ECON 2301, 2302, GEOG 1301, 1302, PSYC 2301, 2302, 2314, 2315, SOCI 1301, 1306, 2301, 2361	3
TOTAL	44 HOURS

CONCURRENT PROGRAM

Concurrent credit courses count for college credit **only** and may be any course in the college catalog for which the student is eligible. Registration forms are available in the Counselors' office.

TEXAS GRANTS PROGRAM

Students who successfully complete the Recommended graduation program or the Distinguished Achievement Program and who have financial need are eligible for grants to cover tuition and fees to Texas public universities, community colleges, and technical schools under the TEXAS Grant Program as established by House Bill 713. Financial need is determined by completing a Free Application for Federal Student Aid or FAFSA during the senior year.

TOP 10 PERCENT ELIGIBLE FOR AUTOMATIC COLLEGE ADMISSION

Under House Bill 588, students who are in the top 10% of their graduating class are eligible for automatic admission to any public university in Texas, with the exception of the University of Texas at Austin which automatically accepts the top 7% of their graduating class. Students must enroll in college within two years of graduating from high school and must apply to a Texas public university for admission before the institutions application deadline.

SPECIAL EDUCATION PROGRAM

Placement in any Special Education class is dependent on eligibility and the decision and placement of the Admissions, Review, and Dismissal (ARD) committee. A number of Special Education programs and classes are offered at the high school level to address individual student needs. All Special Education courses are taken for credit, as are general education courses.

PROSPECTIVE STUDENT ATHLETES – NCAA ELIGIBILITY

If you are planning to enroll in college as a freshman and you wish to participate in Division I or Division II athletics, you must be certified by the NCAA Initial-Eligibility Clearinghouse. Please visit the NCAA Eligibility Center website for more information at http://web1.ncaa.org/ECWR2/NCAA_EMS/NCAA.jsp.

SCHEDULE CHANGE PROCEDURE

In order to provide course continuity, enhance student learning, and allow accurate projections of course offerings and class size, the following schedule change procedure is in effect:

The only schedule changes permitted will be for students placed in the wrong level of a required class, students needing a course for graduation, students needing out of a class already passed (taken in summer school, for instance) and balancing of class size. Schedule changes will not be made after the first ten days of the semester.

TECH PREP PROGRAM

The Tech Prep Program is a sequence of study beginning in high school and continuing through at least two years of post-secondary occupational education. The program prepares students for highly skilled technical occupations and allows either direct entry into the work place after high school graduation or a continuation of study leading to an associate's degree in a two-year college. Secondary schools and institutions of higher learning coordinate tech prep programs.

COURSE DESCRIPTIONS

Course descriptions are provided to enable students and parents to gain a fuller understanding of the courses that are offered at Palestine High School so that the best possible selection of courses may be made for each student. It is essential that students think seriously about a particular subject before scheduling and be aware that some courses have special requirements or expenses. Additional information about these courses is available from the instructor or a counselor. The courses offered each year are based upon student demand and available facilities; therefore, it is possible that a course listed may not be offered if there are not enough students who have requested the course.

ENGLISH/LANGUAGE ARTS

ENGLISH 1

Grade: 9 Credit: 1.0

ENGLISH 1 students study grammar, composition, novels, literature, and writing. All of these are taught at a level appropriate to the majority of freshman students based on the Texas Essential Knowledge and Skills.

ENGLISH 1 PRE-AP

Grade: 9 Credit: 1.0

ENGLISH 1 PRE-AP includes grammar, composition, literature, and writing. Teaching strategies prepare students for Advanced Placement (AP) English courses. Summer reading is required.

ENGLISH 2

Grade: 10 Credit: 1.0

ENGLISH 2 is the study of world literature by genre and theme following the Texas Essential Knowledge and Skills objectives. Emphasis is on reading, writing, speaking, and listening skills. Projects include reading novels and writing.

ENGLISH 2 PRE-AP

Grade: 10 Credit: 1.0

ENGLISH 2 PRE-AP is the study of world literature by genre and theme. Extensive writing, reading, and independent research projects prepare students for the skills necessary for success in the Advanced Placement English courses. Summer reading is required.

ENGLISH 3

Grade: 11 Credit: 1.0

ENGLISH 3 is the chronological study of American literature based on the Texas Essential Knowledge and Skills objectives. Reading, writing, speaking and listening skills are emphasized.

ENGLISH 3 DUAL CREDIT

Grade: 11 Credit: 0.5 per semester

ENGL 1301 & ENGL 1302

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

ENGL 1302: An intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis is 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 conclusion.

Summer reading is required.

Prerequisites: Pass TSI or be TSI exempt; be accepted to Trinity Valley Community College

AP ENGLISH 3 DUAL CREDIT
Grade: 11 Credit: 0.5 per semester
ENGL 1301 & ENGL 1302

AP ENGLISH 3 DUAL CREDIT is a more rigorous study of the following courses:

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

ENGL 1302: An intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis is 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 conclusion.

Summer reading is required.

Prerequisites: Pass TSI or be TSI exempt; be accepted to Trinity Valley Community College

ENGLISH 4
Grade: 12 Credit: 1.0

ENGLISH 4 is a chronological study of British and world literature based on the Texas Essential Knowledge and Skills objectives. Reading, writing, speaking and listening skills are emphasized. Students will read novels and complete and submit an "in-house" research paper.

ENGLISH 4 DUAL CREDIT
Grade: 12 Credit: 0.5 per semester
ENGL 2322 & ENGL 2323

ENGL 2322: A survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

ENGL 2323: A survey of the development of British literature from the Romantic period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Summer reading is required.

**Prerequisites: Pass TSI or be TSI exempt; be accepted to Trinity Valley Community College;
successfully complete ENGL 1301 and ENGL 1302**

AP ENGLISH 4 DUAL CREDIT
Grade: 12 Credit: 0.5 per semester
ENGL 2322 & ENGL 2323

AP ENGLISH 4 DUAL CREDIT is a more rigorous study of the following courses:

ENGL 2322: A survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

ENGL 2323: A survey of the development of British literature from the Romantic period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Summer reading is required.

**Prerequisites: Pass TSI or be TSI exempt; be accepted to Trinity Valley Community College;
successfully complete ENGL 1301 and ENGL 1302**

CREATIVE WRITING PRE-AP
Grade: 12 Credit: 0.5

CREATIVE WRITING PRE-AP allows high school students to develop versatility as a writer. Creative Writing, a rigorous composition course, asks high school students to demonstrate their skill in such forms of writing as fictional writing, 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. The students' evaluation of their own writing as well as the writing of others ensures that students completing this course are able to analyze and discuss published and unpublished pieces of writing, develop peer and self-assessments for effective writing, and set their own goals as writers.

RESEARCH/TECHNICAL WRITING PRE-AP

Grade: 12 Credit: 0.5

RESEARCH/TECHNICAL WRITING PRE-AP allows high school students to develop skills necessary for writing persuasive and informative texts. This rigorous composition course asks high school students to skillfully research a topic or a variety of topics and present that information through a variety of media. 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. The students' evaluation of their own writing as well as the writing of others ensures that students completing this course are able to analyze and discuss published and unpublished pieces of writing, develop and apply criteria for effective writing, and set their own goals as writers.

MATHEMATICS

ALGEBRA 1

Grade: 9 Credit: 1.0

ALGEBRA 1 students work with functional relationships and problem solving in real situations, including, but not limited to, such skills as table building, coordinate graphing, algebraic analysis, equation-writing, equation-solving, operations with polynomials, factoring, and computation. Students have opportunities to develop logical reasoning by making and justifying generalizations based on experience with fundamental algebraic concepts.

ALGEBRA 1 PRE-AP

Grade: 9 Credit: 1.0

ALGEBRA 1 PRE-AP will provide higher level critical thinking skills and independent research. Students will experience more challenging problem-solving tasks than in the regular Algebra 1 class. Extra research and problem solving skills are involved in preparation for pre-calculus and Calculus. Calculator explorations will be a regular part of the course as students examine functions and their graphs. The course will be expanded to include topics such as: simplifying and graphing radicals, simplifying rational expressions, and dividing polynomials.

FINANCIAL MATH

Grade: 11-12 Credit: 1.0

FINANCIAL MATH is a course about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors. Students will apply mathematics to problems arising in everyday life, society, and the workplace and 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. Students will effectively communicate mathematical ideas, reasoning, and their implications using multiple representations such as symbols, diagrams, graphs, and language. Students will use mathematical relationships to generate solutions and make connections and predictions. Students will analyze mathematical relationships to connect and communicate mathematical ideas. Students will display, explain, or justify mathematical ideas and arguments using precise mathematical language in written or oral communication.

ALGEBRA 2

Grade: 10-12 Credit: 1.0

ALGEBRA 2 continues to build upon Algebra 1 with extensive work in quadratic, polynomial, rational, exponential and logarithmic relationships and problem solving in real situations.

ALGEBRA 2 PRE-AP

Grade: 10-12 Credit: 1.0

ALGEBRA 2 PRE-AP covers all the elements of the regular Algebra 2 course as well as expanded objectives and assignments to help students prepare for other Pre-AP and AP courses. Expectations include success with extensive advanced application of the topics.

GEOMETRY

Grade: 9-10 Credit: 1.0

GEOMETRY connects students to the world outside a school through a variety of applications and settings. Students have opportunities to develop deductive, inductive, creative, and critical thinking skills within a framework, which includes plan and solid geometry and studies of other types of geometry. Students also become familiar with the historical development and usefulness of formal mathematical structure.

GEOMETRY PRE-AP

Grade: 9-10 Credit: 1.0

GEOMETRY PRE-AP covers all elements of the regular Geometry course as well as expanded objectives and assignments to help students prepare for Pre-AP and AP courses. Expectations include success with extensive, advanced applications of plane and solid geometry.

PRECALCULUS PRE-AP

Grade: 11-12 Credit: 1.0

PRECALCULUS PRE-AP covers all the elements of the regular PreCalculus course as well as expanded objectives and assignments, which prepare students for AP Calculus. Expectations include advanced applications of the topics. AP Calculus problems are used and solved at a PreCalculus level.

PRECALCULUS PRE-AP DUAL CREDIT

Grade: 11-12 Credit: 0.5

MATH 2312

PRECALCULUS PRE-AP DUAL CREDIT covers topics from plane trigonometry including circular functions, solutions of right triangles, graphs, identities, solving trigonometric equations and the use of scientific calculators. The course will include topics from analytical geometry.

Prerequisites: Pass TSI or be TSI exempt; be accepted to Trinity Valley Community College

STATISTICS

Grade: 11-12 Credit: 1.0

PROBABILITY/STATISTICS students continue to build upon the K-8, Algebra I, Algebra II, and Geometry foundations as they expand their understanding through further mathematical experiences. Advanced Quantitative Reasoning includes the analysis of information using statistical methods and probability, modeling change and mathematical relationships, and spatial and geometric modeling for mathematical reasoning. Students learn to become critical consumers of real-world quantitative data, knowledgeable problem solvers who use logical reasoning and mathematical thinkers who can use their quantitative skills to solve authentic problems. Students develop critical skills for success in college and careers, including investigation, research, collaboration, and both written and oral communication of their work, as they solve problems in many types of applied situations.

STATISTICS DUAL CREDIT

Grade: 11-12 Credit: 0.5 per semester

COLLEGE ALGEBRA (MATH 1314) topics include rapid review or factoring, exponents, logs, radicals, linear and quadratic equations, systems of equations, continuing into inequalities, matrices and determinants, complex numbers, higher degree equations, variation, and rational functions, etc. as time permits.

INTRODUCTION TO STATISTICS (MATH 1342) covers descriptive statistics, probability, binomial distribution, normal distribution, confidence intervals, hypothesis testing, and linear regression.

Prerequisites: Pass TSI or be TSI exempt; be accepted to Trinity Valley Community College

PRE-AP CALCULUS DUAL CREDIT

Grade: 12 Credit: 0.5

MATH 2413

PRE-AP CALCULUS DUAL CREDIT covers differentiation and integration of logarithmic, exponential and hyperbolic functions, methods of integration, improper integrals, and infinite series.

Prerequisites: Pass TSI or be TSI exempt; be accepted to Trinity Valley Community College

SCIENCE

BIOLOGY 1

Grade: 9 Credit: 1.0

BIOLOGY 1 is designed for the study of living things. It provides the student with opportunities for acquiring basic skills, techniques, and knowledge necessary to help understand today's biological issues. Areas of emphasis include microbiology, ecology, cell structure, molecular biology, genetics, and a general survey of organisms from bacteria to plants and animals.

BIOLOGY 1 PRE-AP

Grade: 9 Credit: 1.0

BIOLOGY 1 PRE-AP is preparatory course for AP Biology 2. The course focuses on an in-depth study of biological processes and integrates concepts from biology, chemistry, and physics. Areas of study include biodiversity, microbiology, molecular biology, genetics, populations, and organisms.

AP BIOLOGY 2 DUAL CREDIT
Grade: 12 Credit: 0.5 per semester
BIOL 1406 & 1407

AP BIOLOGY 2 DUAL CREDIT is a more rigorous study of the following courses:

BIOL 1406: A study of fundamental principles of living organisms, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, and scientific reasoning are included. A laboratory component is included that gives practical experience to material covered in class.

BIOL 1407: A study of fundamental principles of living organisms, their classification, adaption, reproduction, ecology, and behavior with emphasis on unicellular organisms, invertebrates, and vertebrate animals.

Prerequisites: Pass TSI or be TSI exempt; be accepted to Trinity Valley Community College

INTEGRATED PHYSICS AND CHEMISTRY - IPC

Grade: 10 Credit: 1.0

IPC 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 1

Grade: 10-11 Credit: 1.0

CHEMISTRY 1 students conduct laboratory investigations and fieldwork. Students use scientific methods during investigations and make informed decisions using critical thinking and problem solving. Students study a variety of topics: matter, energy, atomic structure, the periodic table, gases, bonding, nuclear fusion, solutions, acids and bases, chemical and physical changes, and chemical reaction. Students study how chemistry is a part of our lives and how it relates to other processes.

CHEMISTRY 1 PRE-AP

Grade: 10-11 Credit: 1.0

CHEMISTRY 1 PRE-AP students conduct laboratory and fieldwork investigations and use scientific methods during investigations to make informed decisions using critical thinking and problem solving. Mathematical applications are stressed. Students study various topics: structure of matter, energy changes, reaction types, atomic structure, acids, bases and salts, chemical and physical changes, gas laws, solutions, bonding, kinetics, and equilibrium. Students recognize chemistry as a part of our lives and an integral part of all science disciplines. Teaching strategies prepare students for AP Chemistry 2.

CHEMISTRY 2 AP

Grade: 10-11 Credit: 1.0

CHEMISTRY 2 AP is an in-depth study of the chemical concepts and principles encountered in Chemistry 1. Topics include atomic theory, bonding, stoichiometry, equilibrium, acid-base theory, thermodynamics, nuclear chemistry and an introduction to organic chemistry. In addition to supporting these topics, 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 unknown through a variety of laboratory procedures.

AP CHEMISTRY 2 DUAL CREDIT

Grade: 12 Credit: 0.5 per semester

CHEM 1411 & 1412

AP CHEMISTRY 2 DUAL CREDIT is a rigorous study of the following courses:

CHEM 1411: Fundamental principles of chemistry for majors in the sciences, health sciences, and engineering; topics include measurements, fundamental properties of matter, states of matter, chemical reactions, chemical stoichiometry, periodicity of elemental properties, atomic structure, chemical bonding, molecular structure, solutions, properties of gases, and an introduction to thermodynamics and descriptive chemistry. A laboratory component is included that gives practical experience to material covered in class.

CHEM 1412: A continuation of CHEM 1411 with topics covering Chemical equilibrium; phase diagrams and spectrometry; acid-base concepts; thermodynamics; kinetics; electrochemistry; nuclear chemistry; an introduction to organic chemistry and descriptive inorganic chemistry. A laboratory component is included that gives practical experience to material covered in class.

Prerequisites: Pass TSI or be TSI exempt; be accepted to Trinity Valley Community College

PRINCIPLES OF TECHNOLOGY

Grade: 11-12 Credit: 1.0

Satisfies the Physics requirement for graduation

PRINCIPLES OF TECHNOLOGY students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Various systems will be described in terms of space, time, energy, and matter. Students will study a variety of topics that include laws of motion, conservation of energy, momentum, electricity, magnetism, thermodynamics, and characteristics and behavior of waves. Students will apply physics concepts and perform laboratory experimentations for at least 40% of instructional time using safe practices.

PHYSICS PRE-AP

Grade: 11 – 12 Credit: 1.0

PHYSICS PRE-AP students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics. Students who successfully complete Physics will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with colleagues, and develop critical-thinking skills.

ANATOMY & PHYSIOLOGY

Grade: 11-12 Credit: 1.0

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

PRE-AP ANATOMY & PHYSIOLOGY DUAL CREDIT

Grade: 12 Credit: 0.5 per semester

BIOL 2401 and BIOL 2402

PRE-AP ANATOMY & PHYSIOLOGY DUAL CREDIT is a more rigorous study of the following courses:

BIOL 2401: Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, and scientific reasoning are included. A laboratory component is included that gives practical experience to material covered in class.

BIOL 2402: This course is designed to be a continuation of BIOL 2401. Systems to be covered include the cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive. Basic concepts of fluid and electrolyte balance, immunity and metabolism are developed. A laboratory Component is included that gives practical experience to material covered in class.

Prerequisites: Pass TSI or be TSI exempt; be accepted to Trinity Valley Community College

AQUATIC SCIENCE

Grade: 10-12 Credit: 0.5

AQUATIC SCIENCE emphasizes a variety of topics that include components of an aquatic ecosystem; relationships among aquatic habitats and ecosystems; roles of cycles within an aquatic environment; adaptations of aquatic organisms; changes within aquatic environments; geological phenomena and fluid dynamics effects; and origin and use of water in a watershed.

AP ENVIRONMENTAL SCIENCE

Grade: 11-12 Credit: 1.5

AP ENVIRONMENTAL SCIENCE is designed to be the equivalent of a college science credit. It focuses on the components, concepts, principles, and challenges associated with today's environment and man's impact upon the environment. The course utilizes the College Board Curriculum.

FORENSIC SCIENCE

Grade: 12 Credit: 1.0

FORENSIC SCIENCE introduces students to the application of science to connect a violation of law to a specific criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science.

PATHOPHYSIOLOGY

Grade: 12 Credit: 1.0

PATHOPHYSIOLOGY students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.

SOCIAL STUDIES

WORLD GEOGRAPHY

Grade: 9 Credit: 1.0

WORLD GEOGRAPHY students examine people, places, and environments from the two perspectives of geography-spatial and ecological. Students develop an understanding of location, allocation of resources, global competition, and cultures.

WORLD GEOGRAPHY PRE-AP

Grade: 9 Credit: 1.0

WORLD GEOGRAPHY PRE-AP students research and analyze the relationship between people, places, and the environment. Historical and current issues and policies are used. Independent projects and oral presentations emphasize critical thinking and problem solving skills.

WORLD HISTORY

Grade: 10 Credit: 1.0

WORLD HISTORY offers students an overview of all of human history. Students examine major ideas and themes through time and place. The major emphasis is on significant people, events, and ideas from the earliest time to the present.

WORLD HISTORY PRE-AP

Grade: 10 Credit: 1.0

WORLD HISTORY PRE-AP is designed to give students knowledge of basic chronology and themes from the earliest time to the recent past. Research, critical thinking, and writing skills are necessary as students produce creative projects and analyze historical information.

U.S. HISTORY

Grade: 11 Credit: 1.0

U.S. HISTORY focuses on the nation after reconstruction as a world power in the 20th century. Key events include foreign affairs from the Spanish-American War to the present and domestic issues from the turn of the century through contemporary times.

US HISTORY DUAL CREDIT

Grade: 11 Credit: 0.5 per semester

HIST 1301 & 1302

HIST 1301 (US History to 1877): A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government.

HIST 1302 (US History from 1877 to Present): A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War and post-Cold War eras. Themes that may be addressed include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy.

Prerequisites: Pass TSI or be TSI exempt; be accepted to Trinity Valley Community College; meet prerequisites

PRE-AP US HISTORY DUAL CREDIT

Grade: 11 Credit: 0.5 per semester

HIST 1301 & 1302

PRE-AP US HISTORY DUAL CREDIT is a more rigorous study of the following courses:

HIST 1301 (US History to 1877): A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes

that may be addressed include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government.

HIST 1302 (US History from 1877 to Present): A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War and post-Cold War eras. Themes that may be addressed include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy.

Prerequisites: Pass TSI or be TSI exempt; be accepted to Trinity Valley Community College; meet prerequisites

U.S. GOVERNMENT

Grade: 12 Credit: 0.5

U. S. GOVERNMENT focuses on the principles and beliefs upon which the United States was founded and on the structures, functions, and powers of governments at the national, state, and local level.

AP U.S. GOVERNMENT

Grade: 12 Credit: 0.5

AP U.S. GOVERNMENT and Politics is designed to teach the student how American Government is structured and operates. Emphasis will be placed on the U.S. Constitution, state and local government and their interaction with other branches of government. The students will learn of their responsibilities as citizens of the U.S., the state of Texas and the community of Palestine.

ECONOMICS

Grade: 12 Credit: 0.5

ECONOMICS focuses on basic economic concepts, tools of analysis, and the language of the discipline. Macroeconomic and microeconomic theories are introduced.

AP MACROECONOMICS

Grade: 12 Credit: 0.5

AP MACROECONOMICS is designed to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. It places particular emphasis on the study of national income and develops students' familiarity with economic performance measures, economic growth, and international economics.

LANGUAGES OTHER THAN ENGLISH

SPANISH 1

Grade: 9 - 11 Credit: 1.0

SPANISH 1 is an introduction to the Spanish world, its language and its people. The main emphasis is on oral skills while developing reading and writing skills. The student will recognize the interrelationships of languages and will develop a cultural appreciation.

SPANISH 1 PRE-AP

Grade: 9 - 11 Credit: 1.0

SPANISH 1 PRE-AP is designed for those students who wish to continue their studies in Spanish and eventually take the advanced placement courses offered. The student will find it necessary to be more creative in his/her responses to questions and more original in his/her narratives. All four major language skills will be developed with a concentration on higher grammatical structures. A major goal will be to make the student more comfortable in Spanish, not only in speaking and listening, but also in reading and writing. Selected short stories and poetry will also be studied. The student will be tested throughout the year in all areas pertaining to advanced placement curriculum.

SPANISH 2

Grade: 9 - 12 Credit: 1.0

SPANISH 2 continues to develop the oral skills with added emphasis on reading and writing skills. The focus is on the development of mid to high novice proficiency. Expansion of vocabulary and grammatical structures continues. Contrast between English and Spanish strengthens the language learning process. Culturally related activities of Spanish-speaking countries or regions will be explored.

SPANISH 2 PRE-AP

Grade: 9 - 12 Credit: 1.0

SPANISH 2 PRE-AP is designed for those students who wish to continue their studies in Spanish and eventually take the advanced placement courses offered. The student will find it necessary to be more creative in his/her responses to questions and more original in his/her narratives. All four major language skills will be developed with a concentration on higher grammatical structures. A major goal will be to make the student more comfortable in Spanish, not only in speaking and listening, but also in reading and writing. Selected short stories and poetry will also be studied. The student will be tested throughout the year in all areas pertaining to advanced placement curriculum.

SPANISH 3 PRE-AP

Grade: 9 - 12 Credit: 1.0

SPANISH 3 PRE-AP extends the essential knowledge and skills. It utilizes higher level/critical thinking skills and focuses on the development of mid-intermediate proficiency in oral skills, comprehension of Spanish literature and history, expository composition, and expanded use of grammar and vocabulary.

SPANISH 3 PRE-AP DUAL CREDIT

Grade: 10 - 12 Credit: 1.0

SPAN 1411 & 1412

SPANISH 3 PRE-AP extends the essential knowledge and skills. It utilizes higher level/critical thinking skills and focuses on the development of mid-intermediate proficiency in oral skills, comprehension of Spanish literature and history, expository composition, and expanded use of grammar and vocabulary.

Prerequisites: Pass TSI or be TSI exempt; be accepted to Trinity Valley Community College

SPANISH 4 AP

Grade: 11 - 12 Credit: 1.0

SPANISH 4 AP stresses the development of fluency in oral skills, comprehension of Spanish literature and history, expository composition, and expanded use of grammar. This course utilizes higher level/critical thinking skills and focuses on the development of accuracy and fluency. Students are encouraged to take the AP test.

SPANISH 5 AP

Grade: 11 - 12 Credit: 1.0

Spanish V is intended for students who wish to develop their proficiency in all four language skills: listening, speaking, reading, and writing. The course seeks to develop language skills that can be applied to literature and to other activities such as personal reflection and interests. This class will review the grammatical concepts already learned in Spanish one through four with an emphasis on the most well-known Spanish and Latin American writers.

FINE ARTS

BAND/MARCHING BAND 1 - 4

Grade: 9 - 12 Credit: 1.0

BAND/MARCHING is a performing organization that utilizes a combination of precision marching and musical interpretation. This organization performs at athletic events, U.I.L. competitions, and selected contests. Performance is mandated for credit.

CHOIR 1 - 4

Grade: 9 - 12 Credit: 1.0

CHOIR is centered on learning the basics of sight-reading and general healthy singing. Choral literature in many different styles and from different time periods are prepared and performed. PERFORMANCE IS Mandatory!

THEATER ARTS 1 - 4

Grade: 9 - 12 Credit: 1.0

THEATER ARTS students develop a perception of self, human relationships, and the world using elements of drama and conventions of theatre. Through the creative expression strand, students communicate in a dramatic form, engage in artistic thinking, build positive self-concepts, relate interpersonally and integrate knowledge with other content areas in a relevant manner. Through the historical and cultural relevance strand, students increase their understanding of heritage and traditions in theatre and the diversity of world cultures as expressed in theatre. Through the critical evaluation and response strand, students engage in inquiry and dialogue, accept constructive criticism, revise personal views to promote creative and critical thinking, and develop the ability to appreciate and evaluate live theatre.

DANCE 1 - 4

Grade: 9 – 12 Credit: 1.0

DANCE students develop perceptual thinking and movement abilities in daily life, promoting an understanding of themselves and others. Students develop movement principles and technical skills and explore choreographic and performance qualities. Students develop self-discipline and healthy bodies that move expressively, efficiently, and safely through space and time with a sensitive kinesthetic awareness. Students recognize dance as a vehicle for understanding historical and cultural relevance, increasing an awareness of heritage and traditions of their own and others, and enabling them to participate in a diverse society. Evaluating and analyzing dance allows students to strengthen decision-making skills, develop critical and creative thinking, and develop artistic and creative processes. Students continue to explore technology and its application to dance and movement, enabling them to make informed decisions about dance.

ART 1

Grade: 9 – 12 Credit: 1.0

ART 1 is designed for art students who wish to develop their artistic skills and continue in advanced art. Students will learn the foundation skills needed to create in any art medium. This is the prerequisite course for all advanced courses. Art supply fee is required.

MUSIC DUAL CREDIT

Grade: 10 - 12 Credit: 1.0

MUSI 1310

MUSIC DUAL CREDIT is a general survey of various styles of music in America. Topics may include jazz, ragtime, folk, rock, and contemporary art music.

Prerequisites: Pass TSI or be TSI exempt; be accepted to Trinity Valley Community College

PHYSICAL EDUCATION/ATHLETICS

FOUNDATIONS OF PERSONAL FITNESS (P.E.)

Grade: 9 – 12 Credit: 1.0

FOUNDATIONS OF PERSONAL FITNESS students strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness. The knowledge and skills taught in this course include teaching students about the process of becoming fit as well as achieving some degree of fitness within the class.

INDIVIDUAL SPORTS (P.E.)

Grade: 9 – 12 Credit: 1.0

INDIVIDUAL SPORTS students will develop an application for teamwork and fair play. In addition, participants will demonstrate an understanding of strategies and rules of structured physical activities as well as developing motor skills necessary for team activities and competitions.

AEROBIC ACTIVITIES (P.E.)

Grade: 9 – 12 Credit: 1.0

AEROBIC ACTIVITIES students are exposed to a variety of activities that promote health-related fitness. A major expectation of this course is for the student to design a personal fitness program that uses aerobic activities as a foundation.

ATHLETICS

Grade: 9 – 12 Credit: 1.0

ATHLETICS consists of the following sports: football, softball, volleyball, baseball, basketball, tennis, track, soccer, cross-country and power lifting. Students enrolled in athletic programs may work out before or after school. Some programs require workouts before school begins in August. Athletics is highly challenging, very structured and will include competition and demanding off-season.

MARCHING BAND

A student who successfully completes marching band during the fall semester may receive a waiver of one semester of the state physical education requirements. The student may receive a waiver of up to two semesters of physical education requirements through participation in marching band during the fall semester.

CAREER & TECHNOLOGY EDUCATION (CTE)



PREPARING 21ST CENTURY LEADERS

AchieveTexas is designed to help students (and their parents) make wise education choices. It is based on the belief that the curricula of the 21st century should combine *rigorous* academics with *relevant* career education. When schools integrate academic and technical education, students can see the “usefulness” of what they are learning. The system also facilitates a seamless transition from secondary to postsecondary opportunities.

This initiative uses the sixteen federally defined Career Clusters of the States’ Career Clusters initiative (www.careerclusters.org) as the foundation for restructuring how schools arrange their instructional programs. A Career Cluster is a grouping of occupations and broad industries based on commonalities. The sixteen Career Clusters provide an organizing tool for schools, small learning communities, academies, and magnet schools. Programs of Study (POS) have been developed for each of the Career Clusters. The POS represent a recommended sequence of coursework based on a student’s interest or career goal.

PISD offers students 10 career pathways. Each pathway combines academic courses with career-related courses. This helps students understand the relationship between education and careers and engages students in their own learning so they make informed decisions, graduate from high school and enroll in and complete college.

In order for students to be well-prepared for college and careers carefully consider the following career clusters and choose electives in a coherent sequence. In some cases, a student may change from one career cluster to another or may choose electives from a variety of clusters.





	First Year	Second Year	Third Year	Fourth Year
Animal & Plant Science	Principles of Ag, Food & Natural Resources	Small Animal Management/ Equine Science	Livestock Production	Practicum in Ag, Food & Natural Resources Extended Practicum in Ag, Food & Natural Resources
Other Electives			Wildlife & Ecology Management Career Prep 1	Career Prep 2

CAREER OPPORTUNITIES – AGRICULTURE, FOOD & NATURAL RESOURCES

Agricultural Communications Specialist, Agricultural Sales, Public Relations Specialist, Biotechnology Technician, Plant Breeder, Geneticist, Financial Manager, Loan Officer, Commodities Agent, Greenhouse Manager, Floral Designer, Horticulturist, Veterinarian, Veterinary Technician, Veterinary Assistant, Fish Hatchery Manager, Aquaculture Technician, Aquatic Scientist, Marine Biologist, Food and Drug Inspector, Meat Processor, Meat Grader, Food Science Technician, Waste Water Manager, Water Quality Manager, Water Environment Manager, Agricultural Engineer, Welder and Cutter, Welder-Fitter, Animal Nutritionist, Livestock Producer, Large Animal Caretaker, Agricultural Crop Farm Manager

COURSE DESCRIPTIONS

PRINCIPLES OF AG, FOOD & NATURAL RESOURCES

Grade: 9 – 12 Credit: 1.0

PRINCIPLES OF AGRICULTURE, FOOD AND NATURAL RESOURCES provides students the knowledge and skills necessary for career planning and advanced study in the broad field of agriculture/agribusiness. Topics of instruction include the agricultural industry and its global importance; agricultural leadership organizations; agricultural research; concepts of animal and plant science; basics of mechanized agriculture; and personal and communication skills. Students are also prepared for successful entry into diverse agricultural science, business, and industry courses of study and workplaces. Topics of instruction include essential knowledge and skills in plant science; animal science and technology; principles of food science technology; basic mechanical skills in agricultural applications; agriculture and environmental science relationships; and personal and agricultural business management.

EQUINE SCIENCE

Grade: 9 – 12 Credit: 0.5

EQUINE SCIENCE students will be prepared for careers in the field of animal science. Suggested animals which may be included in the course of study include, but are not limited to, horses, donkeys, and mules.

SMALL ANIMAL MANAGEMENT

Grade: 9 – 12 Credit: 0.5

SMALL ANIMAL MANAGEMENT students will be prepared for careers in the field of animal science. 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

Grade: 10 -12 Credit: 1.0

LIVESTOCK PRODUCTION students will be prepared for careers in the field of animal science, will 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. 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

Grade: 9 – 12 Credit: 1.0

WILDLIFE FISHERIES AND ECOLOGY MANAGEMENT students will attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources. This course examines the management of game and non-game wildlife species, fish, and aquacrops and their ecological needs as related to current agricultural practices.

PRACTICUM IN AGRICULTURE, FOOD & NATURAL RESOURCES

Grade: 11 – 12 Credits: 2.0 – 3.0

PRACTICUM IN AGRICULTURE, FOOD & NATURAL RESOURCES 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.



	First Year	Second Year	Third Year	Fourth Year
CTE Courses	Principles of Construction	Construction Technology I	Building Maintenance	Construction Tech II Building Maintenance II
Other Electives			Career Prep 1	Career Prep 2

CAREER OPPORTUNITIES – ARCHITECTURE & CONSTRUCTION

Architect, Civil Engineer, Construction Manager, Independent Specialty Contractor, Mechanic, Cost Estimator, Civil Engineer, Environmental Engineer, Administrative Services Manager, Construction Manager, Cost Estimator, Civil Engineer, Construction/Building Inspector, Interior Designer, Merchandise Displayer and Window Trimmer, Set and Exhibit Designer, Cost Estimator

COURSE DESCRIPTIONS

PRINCIPLES OF CONSTRUCTION

Grade: 9 – 12 Credit: 1.0

PRINCIPLES OF CONSTRUCTION is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

CONSTRUCTION TECHNOLOGY I

Grade: 10 – 12 Credit: 1.0

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.

BUILDING MAINTENANCE

Grade: 10 – 12 Credit: 2.0

BUILDING MAINTENANCE students gain advanced knowledge and skills needed to enter the workforce as a building maintenance technician or supervisor and construction project manager or secure a foundation for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in safety, Occupational Safety and Health Administration (OSHA) standards, and safety devices in electrical circuits; maintenance of electrical and heating, ventilation, and air conditioning (HVAC) systems; and concepts of historic preservation.



		First Year	Second Year	Third Year	Fourth Year
CTE Courses & Fields Of Study	Audio/Video Technology	Principles of Arts, A/V Technology & Communications	Audio/Video Production I	Audio/Video Production II	Practicum in Audio/Video Production
	Photography/Visual Journalism	Principles of Arts, A/V Technology & Communications	Graphic Design & Illustration I	Printing & Imaging Technology I	Printing & Imaging Technology II
	Fine Art	Principles of Arts, A/V Technology & Communications	Graphic Design & Illustration	Graphic Design & Illustration II	Practicum in Graphic Design & Illustration
	Other Electives	Art 1	Animation I & Animation I Lab	Animation II & Animation II Lab Career Prep 1	Commercial Photography I Career Prep 2

CAREER OPPORTUNITIES – ARTS, A/V TECHNOLOGY & COMMUNICATIONS

Multimedia Artist/Animator, Graphic Designer, Artist, Art Director, Painter and Illustrator, Multimedia Artist and Animator, Curator, Photographer, Audio/Video Equipment Technician, Multimedia Artist/Animator, Sound Engineer Technician, Graphic Designer, Broadcast Technician, Film Editor, Fashion Designer, Sketch Artist, Commercial and Industrial Designer, Broadcast Technician, Reporter/Correspondent, Broadcast News Analyst, Radio/TV Announcer, Producer/Director/Manager, Professional Photographer, Musician, Dancer, Production Manager, Cinematographer, Play Writer, Director, Actor, Make-up Artist, Set Designer, Music Director/Composer, Graphic Designer, Desktop Publisher, Job/Cost Estimator, Art Director, Press Operator, Bindery Worker, Multimedia Artist/Animator, Electronics Engineering Technician, Telecommunications Line Installer and Repairer, Network Systems and Data Communication Analyst

COURSE DESCRIPTIONS

PRINCIPLES OF ARTS, A/V TECHNOLOGY & COMMUNICATIONS

Grade: 9 - 12 Credit: 1.0

PRINCIPLES OF ARTS, A/V TECHNOLOGY & COMMUNICATIONS - 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.

AUDIO/VIDEO PRODUCTION I

Grade: 9 – 12 Credit: 1.0

AUDIO/VIDEO PRODUCTION I - Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the industry with a focus on preproduction, production, and post-production audio and video products.

AUDIO/VIDEO PRODUCTIONS II

Grade: 11 - 12 Credit: 1.0

AUDIO/VIDEO PRODUCTION II- Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Building upon the concepts taught in Audio/Video Production, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production products. This course may be implemented in an audio format or a format with both audio and video.

PRACTICUM IN AUDIO/VIDEO PRODUCTION

Grades 11-12 Credit 1.0 -3.0

PRACTICUM IN AUDIO/VIDEO PRODUCTION - Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production audio and video activities in a studio environment. This course may be implemented in an advanced audio, video, or animation format. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

PRINTING & IMAGING TECHNOLOGY I

Grade: 10 – 12 Credit: 1.0

PRINTING & IMAGING TECHNOLOGY I - Careers in printing span all aspects of the industry, including prepress, press, and finishing and bindery operations. 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 printing industry with a focus on digital prepress and digital publishing.

PRINTING & IMAGING TECHNOLOGY II

Grade: 11 – 12 Credit: 2.0

PRINTING & IMAGING TECHNOLOGY II - Careers in printing span all aspects of the industry, including prepress, press, and finishing and bindery operations. In addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced understanding of the printing industry with a focus on digital prepress and desktop digital publishing.

GRAPHIC DESIGN & ILLUSTRATION I

Grade: 10 – 12 Credit: 1.0

GRAPHIC DESIGN & ILLUSTRATION I - 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, Audio/Video 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 & ILLUSTRATION II

Grade: 10 – 12 Credit: 2.0

GRAPHIC DESIGN & ILLUSTRATION II - 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, Audio/Video 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.

PRACTICUM IN GRAPHIC DESIGN & ILLUSTRATION

Grade: 12 Credit: 3.0

PRACTICUM IN GRAPHIC DESIGN & ILLUSTRATION - Careers in graphic design and illustration span all aspects of the advertising and visual communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

COMMERCIAL PHOTOGRAPHY I

Grade: 11 -12 Credit: 1.0

COMMERCIAL PHOTOGRAPHY I - Careers in commercial photography require skills that span all aspects of the industry from setting up a shot to delivering products in a competitive market. Within this context, in addition to developing 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 commercial photography industry with a focus on creating quality photographs.

ANIMATION I & ANIMATION I LAB

Grades: 10 – 12 Credit: 2.0

ANIMATION I - 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.

ANIMATION II & ANIMATION II LAB

Grades: 10 – 12 Credit: 2.0

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



	First Year	Second Year	Third Year	Fourth Year
CTE Courses	Principles of Business, Marketing and Finance	Entrepreneurship	Business Management	Practicum in Business Management
Other Electives			Money Matters Career Prep 1	Career Prep 2

CAREER OPPORTUNITIES – BUSINESS MANGEMENT & ADMINISTRATION

Accountants, Advertising and Promotions Managers, Agents and Business Managers of Artists, Performers, and Athletes, Arbitrators and Mediators, Archivists, Auditors, Billing and Posting Clerks, Bookkeeping, Accounting and Auditing Clerks, Brokerage Clerks, Budget Analysts, Chief Executives, Computer Operators , Computer Programmers, Court Clerks, Court Reporters, Credit Analysts, Customer Service Representatives, Data Entry Clerks, Database Administrators, Economists, Employee Training Specialists, Executive Secretaries and Executive Administrative Assistants, Financial Analysts, Financial Examiners, Financial Managers, Human Resources Managers, Insurance Claims and Policy Processing Clerks, Legal Secretaries, Library Assistants, License Clerks, Managers, Medical Secretaries, Meeting and Convention Planners, Municipal Clerks, Operations Research Analysts, Payroll and Timekeeping Clerks, Postal Service Clerks, Postal Service Mail Carriers ,Postal Service Mail Sorters, Processors, and Processing Machine Operators, Public Relations Specialists, Receptionists and Information Clerks, Shipping, Receiving, and Traffic Clerks, Statisticians, Switchboard Operators, Including Answering Service, Tax Examiners and Collectors, and Revenue Agents, Treasurers and Controllers, Word Processors and Typists

COURSE DESCRIPTIONS

PRINCIPLES OF BUSINESS, MARKETING AND FINANCE

Grade: 9 -12 Credit: 1.0

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.

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

ENTREPRENEURSHIP

Grade: 10-12 Credit: 1.0

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

BUSINESS MANAGEMENT

Grade: 10-12 Credit: 2.0

BUSINESS MANAGEMENT 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 economical, 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.

MONEY MATTERS

Grade: 11-12 Credit: 1.0

MONEY MATTERS students will investigate money management from a personal financial perspective. Students will apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to establish short-term and long-term financial goals. Students will examine various methods of achieving short-term and long-term financial goals through various methods such as investing, tax planning, asset allocating, risk management, retirement planning, and estate planning.

PRACTICUM IN BUSINESS MANAGEMENT

Grade: 12 Credit: 3.0

PRACTICUM IN BUSINESS MANAGEMENT is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies. Students develop a foundation in the economical, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.



	First Year	Second Year	Third Year	Fourth Year
CTE Courses	Principles of Education & Training	Human Growth & Development	Instructional Practices	Practicum in Education & Training
Other Electives			Career Prep 1	Career Prep 2

CAREER OPPORTUNITIES – EDUCATION & TRAINING

Preschool Teacher, Kindergarten Teacher, Special Education Teacher, Preschool, Child Care Worker, Preschool and Child Care Program Administrator, Teacher Assistant, Preschool, Elementary/Secondary Education Administrator, Postsecondary Education Administrator, Instructional Coordinator, Educational, Vocational, and School Counselor, Child, Family and School Social Worker, Elementary School Teacher, Middle School Teacher, Vocational Education Teacher, Secondary School Teacher, Special Education Teacher, Coach, Postsecondary Teacher, Teacher Assistant

COURSE DESCRIPTIONS
PRINCIPLES OF EDUCATION & TRAINING

Grade: 9 – 12 Credit: 1.0

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

HUMAN GROWTH & DEVELOPMENT

Grade: 10 – 12 Credit: 1.0

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

INSTRUCTIONAL PRACTICES

Grade: 11 – 12 Credit: 2.0

INSTRUCTIONAL PRACTICES 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.

PRACTICUM IN EDUCATION & TRAINING

Grade: 12 Credit: 2.0

PRACTICUM IN EDUCATION & 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.



	First Year	Second Year	Third Year	Fourth Year
CTE Courses	Principles of Health Science	Pathophysiology	Health Science Theory & Health Science Clinical	Practicum in Health Science** **Specialization in - Physical Therapy Dental Assistant Emergency Medical Technician (EMT) Certified Nursing Assistant (CNA) Pharmacology
Other Electives		Sports Medicine 1	Sports Medicine 2 Career Prep 1	Anatomy & Physiology A & P Dual Credit Career Prep 2

CAREER OPPORTUNITIES – HEALTH SCIENCE

Biological Technician, Medical Scientist, Biostatistician, Biochemist, Clinical Laboratory Scientist, Clinical Laboratory Technician, Dentist, Dental Assistant/Hygienist, Dental Laboratory Technician, Emergency Medical Technician, Paramedic, Emergency Services, Environmental Scientist, Biomedical Engineer, Occupational Health and Safety Specialist, Healthcare Administrator, Medical and Health Services Manager, Radiologic Technologist and Technician, Nuclear Medicine Technologist, Medical Records and Health Information, Medical Transcriptionist, Psychiatrist, Psychologist, Social Worker, Registered Nurse, Licensed Vocational Nurse, Nurse Aide, Dietitian, Nutritionist, Pharmacist, Pharmacy Technician, Physician, Pediatrician, Anesthesiologist, Surgeon, Cardiovascular Technologist, Health Technologist and Technician, Physical Therapist, Respiratory Therapist, Recreational Therapist, Occupational Therapist, Speech Language Pathologist, Audiologist, Optometrist

COURSE DESCRIPTIONS

PRINCIPLES OF HEALTH SCIENCE

Grade: 9 – 12 Credit: 1.0

PRINCIPLES OF HEALTH SCIENCE is an introductory course designed to teach concepts and skills related to the health care industry. Course content includes: investigation of health careers, medical terminology, basic anatomy and physiology, and legal and ethical concerns. Skills taught include first aid, safety, infection control, basic patient care skills, and employment skills.

HEALTH SCIENCE THEORY

Grade: 10 – 12 Credit: 1.0

HEALTH SCIENCE THEORY is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers.

HEALTH SCIENCE CLINICAL

Grade: 10 – 12 Credit: 1.0

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

PRACTICUM IN HEALTH SCIENCE

Grade: 11 – 12 Credit: 2.0

PRACTICUM IN HEALTH SCIENCE is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

PHARMACOLOGY

Grade: 12 Credit: 1.0

PHARMACOLOGY is designed to study how natural and synthetic chemical agents such as drugs affect biological systems. Knowledge of the properties of therapeutic agents is vital in providing quality health care. It is an ever-changing, growing body of information that continually demands greater amounts of time and education from health care workers.

SPORTS MEDICINE

Grade: 10 – 12 Credit: 1.0

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, emergency procedures, nutrition, sports psychology, human anatomy and physiology, therapeutic modalities, and therapeutic exercise.

SPORTS MEDICINE 2

Grade: 11 – 12 Credit: 1.0

SPORTS MEDICINE 2 is an advanced look at the broad discipline of Sports Medicine. This course will prepare the student for a career as a student athletic trainer at both the high school and collegiate levels. The course will prepare students in the art of mechanical and physical analysis of the prevention, treatment, and rehabilitation of sports related injuries. Students will learn through various methods of study the application of physiological principles to the body's reaction to participation in athletic activities. The student will gain valuable knowledge in the areas of anatomy, physiology, therapeutic modalities, mechanical analysis of body movement, and rehabilitation techniques. This knowledge will enable the student to experience and utilize a great deal of hands-on physiological techniques for the purpose of prevention, treatment and rehabilitation of athletic injuries.

PATHOPHYSIOLOGY

Grade: 11-12 Credit: 1.0

PATHOPHYSIOLOGY students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.



	First Year	Second Year	Third Year	Fourth Year
CTE Courses	Principles of Hospitality & Tourism	Culinary Arts	Advanced Culinary Arts	Practicum in Culinary Arts
Other Electives			Career 1	Career Prep 2

CAREER OPPORTUNITIES – HOSPITALITY & TOURISM

Chef and Head Cook, Cook, Restaurant Baker, Bread and Pastry, Food Service Manager, First-Line, Supervisor/Manager, General and Operations Manager, Private Sector Executive, Lodging Manager, Sales Manager, Human Resources Manager, General and Operations Manager, First-line Supervisor, General and operations Manager, Meeting and Convention Planner, Amusement and Recreation Attendant, Maintenance Worker, Curator, Museum Technician, Private Sector Executive, Program Director, Sales Manager, Travel Agent, Tour/Travel Guide, Ticket Agent and Travel Clerk

COURSE DESCRIPTIONS

PRINCIPLES OF HOSPITALITY & TOURISM

Grade: 9 – 11 Credit: 1.0

PRINCIPLES OF HOSPITALITY & TOURISM students are introduced to an industry that encompasses lodging, travel and tourism, recreation, amusements, attractions, resorts, restaurants and food and beverage service. The hospitality and tourism industry maintains the largest national employment base in the private sector. Students use knowledge and skills that meet industry standards to function effectively in various positions within this multifaceted industry. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership organizations.

CULINARY ARTS

Grade: 10 – 12 Credit: 2.0

PREREQUISITE: PRINCIPLES OF HOSPITALITY & TOURISM OR RESTAURANT MANAGEMENT

CULINARY ARTS begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification, a Texas culinary specialist certification, or any other appropriate industry certification. This course may be offered as a laboratory-based or internship course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

ADVANCED CULINARY ARTS

Grades 11 – 12 Credit: 2.0

PREREQUISITE: CULINARY ARTS

ADVANCED CULINARY ARTS will extend content and enhance skills introduced in Culinary Arts by infusing high-level, industry-driven content to prepare students for success in higher education, certifications and/or immediate employment.

PRACTICUM IN CULINARY ARTS

Grade: 11 – 12 Credit: 1.0

PREREQUISITE: CULINARY ARTS

PRACTICUM IN CULINARY ARTS is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Culinary Arts integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace. 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. Practicum in Culinary Arts is relevant and rigorous, supports student application of academic standards, and effectively prepares students for college and career success.



	First Year	Second Year	Third Year	Fourth Year
CTE Courses		Principles of Cosmetology Design & Color Theory	Cosmetology I	Cosmetology II
Other Electives			Career Prep 1	Career Prep 2

CAREER OPPORTUNITIES – HUMAN SERVICES

Retail Salesperson, Sales Representative, Wholesale and Retail Buyer, Advertising and Promotions Manager, Sales Manager, Market Research Analyst, Hairdresser, Hairstylist and Cosmetologist, Skin Care Specialist, Manicurist/Pedicurist, Shampooer, Retail Salesperson, Sales Rep-Wholesale/Mfg, Marriage and Family Therapist, Rehabilitation Counselor, Dietitian and Nutritionist, Preschool Teacher, Special Education Teacher, Preschool, Child Care Worker, Preschool and Child Care Program Administrator, Personal Financial Advisor, Financial Manager, Loan Counselor, Sales Agent, Medical and Health Service Manager, Social and Human Services Assistant, Social Worker, Government Benefits Interviewer, Residential Advisor, Retail Salesperson, Sales Representative, Wholesale and Mfg, Wholesale and Retail Buyer, Advertising and Promotions Manager, Sales Manager, Market Research Analyst, Social and Community Service Manager, Medical and Public Health Social Worker, Social and Human Service Assistant, Child Family and School Social Worker, Residential Advisor

COURSE DESCRIPTIONS

PRINCIPLES OF COSMETOLOGY DESIGN AND COLOR THEORY

Grade: 9 – 10 Credit: 1.0

PRINCIPLES OF COSMETOLOGY DESIGN AND COLOR THEORY students learn academic skills and knowledge as well as technical knowledge and skills regarding cosmetology design and color theory.

COSMETOLOGY I

Grade: 10 – 12 Credit: 2.0

COSMETOLOGY I 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 Regulation requirements for licensure upon passing the state examination. Analysis of career opportunities, requirements, expectations, and development of workplace skills are included.

COSMETOLOGY II

Grade: 11 – 12 Credit: 3.0

COSMETOLOGY II 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.



	First Year	Second Year	Third Year	Fourth Year
CTE Courses	Principles of Information Technology	Networking	Computer Maintenance	Computer Technician Practicum
Other Electives			Career Prep 1	Career Prep 2

CAREER OPPORTUNITIES – INFORMATION TECHNOLOGY

Computer and Information Research Scientists, Computer Network Architects, Computer Programmers, Computer Support Specialists, Computer Systems Analysts, Database Administrators, Information Security Analysts, Network and Computer Systems Administrators, Software Developers, Web Developers, IT Consultant, Cloud Architect, Computer Forensic Investigator, Health IT Specialist, Mobile Application Developer

COURSE DESCRIPTIONS

PRINCIPLES OF INFORMATION TECHNOLOGY

Grade: 9 - 12 Credit: 1.0

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

NETWORKING

Grade: 10 - 12 Credit: 1.0

NETWORKING students will develop knowledge of the concepts and skills related to data networking technologies and practices in order to apply them to personal or career development. To prepare for success, students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

COMPUTER MAINTENANCE

Grade: 10 - 12 Credit: 1.0

COMPUTER MAINTENANCE students will acquire knowledge of computer maintenance and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer maintenance. Students will apply technical skills to address the IT industry and emerging technologies.

COMPUTER TECHNICIAN PRACTICUM

Grade: 10 - 12 Credit: 2.0

COMPUTER TECHNICIAN PRACTICUM students will gain knowledge and skills in the area of computer technologies, including advanced knowledge of electrical and electronic theory, computer principles, and components related to the installation, diagnosis, service, and repair of computer-based technology systems. Students will reinforce, apply, and transfer their knowledge and skills to a variety of settings and problems. Proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an instructor, with an industry mentor, or both.



	First Year	Second Year	Third Year	Fourth Year
CTE Courses	Principles of Law, Public Safety, Corrections & Security	Law Enforcement 1	Correctional Services Court Systems & Practices	Practicum in Law, Public Safety, Corrections & Security
Other Electives			Career Prep 1	Forensic Science Career Prep 2

CAREER OPPORTUNITIES – LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY

Security Guard, Criminal Investigator, Forensic Investigator, Court Reporter, Lawyer, Arbitrator, Mediator, Paralegal, Police Officer, Corrections Officer, Probation Officer, Highway Patrol, Texas Ranger, Game Warden, FBI Agent, Park Ranger, Federal Marshall, Firefighter, Judges, Magistrates, Private Detective

COURSE DESCRIPTIONS

PRINCIPLES OF LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY

Grade: 9 - 12 Credit: 1.0

PRINCIPLES OF LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY introduces students to professions in law enforcement, security, corrections, and fire and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, security, and corrections.

LAW ENFORCEMENT I

Grade: 10 - 12 Credit: 1.0

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.

CORRECTIONAL SERVICES

Grade: 11 - 12 Credit: 1.0

CORRECTIONAL SERVICES students prepare for certification required for employment as a correctional officer. The student will learn the role and responsibilities of a correctional officer; discuss relevant rules, regulations, and laws; and discuss defensive tactics, restraint techniques, and first aid procedures as used in the correctional setting. The student will analyze rehabilitation and alternatives to institutionalization.

COURT SYSTEMS & PRACTICES

Grade 11 - 12 Credit: 1.0

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

PRACTICUM IN LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY

Grade: 11 - 12 Credit: 2.0

PRACTICUM IN LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY is designed to give students supervised practical application of previously studied knowledge and skills in law, public safety, corrections, and security. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

FORENSIC SCIENCE

Grade: 12 Credit: 1.0

FORENSIC SCIENCE introduces students to the application of science to connect a violation of law to a specific criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science.



	First Year	Second Year	Third Year	Fourth Year
CTE Courses	Principles of Manufacturing	Agricultural Mechanics & Metal Technologies	Welding	Practicum in Manufacturing
Other Electives			Career Prep 1	Career Prep 2

CAREER OPPORTUNITIES - MANUFACTURING

Health and Safety Manager, Safety Technician, Safety Engineer, Maintenance Repairer, Industrial Electronic Installer, Electrician, Biomedical Equipment Technician, Dispatcher, Traffic Manager, Material Mover, Logistician, Precision Metal Production, Welder, Machine Operator Process Control Technician, Quality Control Technician, Calibration Technician

COURSE DESCRIPTIONS

PRINCIPLES OF MANUFACTURING

Grade: 9 – 12 Credit: 1.0

PRINCIPLES OF MANUFACTURING students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. Knowledge and skills in the proper application of principles of manufacturing, the design of technology, the efficient production of technology, and the assessment of the effects of manufacturing production technology prepare students for success in the modern world. The study of manufacturing technology allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting. In addition to general academic and technical knowledge and skills, students gain an understanding of career opportunities available in manufacturing and what employers require to gain and maintain employment in these careers.

AGRICULTURAL MECHANICS & METAL TECHNOLOGIES

Grade: 10 – 12 Credit: 1.0

AGRICULTURAL MECHANICS AND METAL TECHNOLOGIES students 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.

WELDING

Grade: 10 – 12 Credit: 1.0

WELDING provides the knowledge, skills, and technologies required for employment in metal technology systems. Students will develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.

PRACTICUM IN MANUFACTURING

Grade: 11 – 12 Credit: 2.0

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



		First Year	Second Year	Third Year	Fourth Year
CTE Courses & Fields of Study	Electronics/Robotics	Principles of Applied Engineering	AC/DC Electronics	Practicum in STEM	Practicum in STEM II
	Engineering - Project Lead The Way	Introduction to Engineering Design	Engineering Science	Aerospace Engineering	Practicum in STEM
Other Electives				Career Prep 1	Career Prep 2

CAREER OPPORTUNITIES – SCIENCE, TECHNOLOGY, ENGINEERING & MATH

Chemical Engineers, Civil Engineers, Electrical Engineers, Industrial Engineers, Mechanical Engineers, Petroleum Engineers, Drafters, Food Scientists and Technologists, Biologists, Microbiologists, Astronomers, Environmental Scientists and Specialists, Including Health, Economists, Anthropologists and Archeologists, Paleontologist

COURSE DESCRIPTIONS

PRINCIPLES OF APPLIED ENGINEERING

Grade: 9 - 10 Credit: 1.0

PRINCIPLES OF APPLIED ENGINEERING provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will have an understanding of the various fields of engineering and will be able to make informed career decisions. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.

AC/DC ELECTRONICS

Grade: 10 - 12 Credit: 1.0

AC/DC ELECTRONICS focuses on the basic electricity principles of alternating current/direct current (AC/DC) circuits. Students will demonstrate knowledge and applications of circuits, electronic measurement, and electronic implementation. Through use of the design process, students will transfer academic skills to component designs in a project-based environment. Students will use a variety of computer hardware and software applications to complete assignments and projects. Additionally, students will explore career opportunities, employer expectations, and educational needs in the electronics industry.

PRACTICUM IN SCIENCE, TECHNOLOGY, ENGINEERING & MATH

Grade: 11 - 12 Credit: 2.0

PRACTICUM IN SCIENCE, TECHNOLOGY, ENGINEERING & MATH is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

INTRODUCTION TO ENGINEERING

Grade: 9-12 Credit: 1.0

INTRODUCTION TO ENGINEERING students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects like designing a new toy or improving an existing product.

ENGINEERING SCIENCE (PLTW)

Grade: 10-12 Credit: 1.0

ENGINEERING SCIENCE is an engineering course designed to expose students to some of the major concepts and technologies that they will encounter in a postsecondary program of study in any engineering domain. Students will have an opportunity to investigate engineering and high-tech careers. In Engineering Science, students will employ science, technology, engineering, and mathematical concepts in the solution of real-world challenge situations. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community.

AEROSPACE ENGINEERING

Grade: 11-12 Credit: 1.0

AEROSPACE ENGINEERING students explore the physics of flight and bring what they're learning to life through hands-on projects like designing a glider and creating a program for an autonomous space rover.

CAREER DEVELOPMENT

CAREER PREPARATION I

Grade: 12 Credit: 2.0 - 3.0

CAREER PREPARATION I provides 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 and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

CAREER PREPARATION II

Grade: 12 Credit: 2.0 - 3.0

PREREQUISITE: CAREER PREPARATION I

Career Preparation II develops essential knowledge and skills through classroom technical instruction and on-the-job training in an approved business and industry training area. Students will develop skills for lifelong learning, employability, leadership, management, work ethics, safety, and communication as a group; however, each student will have an individual training plan that will address job-specific knowledge and skills. Approved training sponsors will provide paid occupational training for a student. The training sponsor will assist the teacher in providing the necessary knowledge and skills for the student's specific career preparation.