BUILDING STAFFORD'S FUTURE

WHERE WILL THE JOURNEY TAKE YOU?

HIGH SCHOOL

2026-2027 COURSE SELECTION GUIDE

Stafford Municipal School District

Stafford High School
Course Selection Guide
2026-2027

Table of Contents

General Information:

Course Selection Guide Overview	4
Grade Classification	4
Extracurricular Activity Participation	4
Credit & Non-Credit Courses	5
Grading System	5
Determination of Semester Grade	6
Academic Eligibility Rules	6
Guidelines for Determining Class Rank	6
GPA-Exempt Courses	7
Attendance Requirements	7
Graduation Credit Requirements	8
Foundation High School Program Endorsement Opt-Out	8
Special Education Graduation Requirements	8
Summary of State Required Graduation Plans	8
Credits Required	9
State Testing Requirements for Graduation	10
District Requirements for Early Graduation	11
Concurrent Enrollment Courses/Dual Credit Courses	11
Alternative Methods for Earning Credit	12
Transfer Credit	12
Planning Your Schedule	13
Academic Options	13
Stafford Early College and Career High School	14
Schedule Change Requests	14
Advanced Placement Program	14

Course Descriptions:

English Language Arts	18
Foreign Language	22
Math	25
Science	28
Social Studies	31
Fine Arts	35
Physical Education and Health	39

Military Science/JROTC 40
Video Game Design/eSports 40

Stafford Early College and Career High School 2026-2027 Course Selection Guide:

Table of Contents 45
Concurrent Enrollment Courses/Dual Credit Courses 46
Stafford Early College and Career High School 46
SECC High School Associate Degree in Multidisciplinary Studies 48
HCC Dual Credit Resource Tool Kit 52
Agriculture, Food and Natural Resources 50
Arts, AV Technology and Communication 54
Business Management and Administration 59
Education and Training 63
Health Science 65
Hospitality and Tourism 68
Information Technology 70
Law, Public Safety, Corrections and Security 73
Manufacturing 75
Marketing 77
Transportation, Distribution and Logistics 79

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"The Best Little School District in Texas"

The mission of Stafford Municipal School District (SMSD), a diverse and visionary learning community, is to prepare each student to become a critical thinker and an ethical, productive citizen, in the pursuit of excellence through an unwavering commitment to provide multiple life and learning experiences led by dedicated professionals using innovative teaching techniques in an engaging learning environment.

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COURSE SELECTION GUIDE OVERVIEW

This guide is designed to help you select courses that you will take in high school towards the completion of your chosen diploma requirements. All programs have been developed with the philosophy that excellence in education is equally important for all students. The programs are designed to allow each student regardless of interest or ability, to pursue a course of study that is appropriate to meet present and future needs.

Your high school education, whether you are preparing for work or college, is influenced by your selection of courses and by the application of your abilities. A major part of your school work consists of fundamentals that you will need all your life. Gaining admission to college or any post-secondary educational institution including business school, or a technical institute, is competitive. Although colleges vary greatly in their specific entrance requirements, admission is based on the applicant's rank in class, the types of courses taken, test scores, participation in activities and recommendations from your teachers and counselor.

Students who are planning to enter the work force immediately after graduation should realize that today's job market is very competitive. In order to gain employment and remain employed, all students need academic competencies in reading, writing, speaking and listening, mathematics, reasoning and study skills, as well as technical skills, mechanical skills, and interacting appropriately in the work force.

Please use this guide as a source of information and an aid in preparing your high school program. Your counselor will answer any questions that you may have about a particular area or help you gather information that is currently not available in the guide.

Grade Classification
Students are classified at the beginning of each school year according to the number of credits they have earned. Classification will remain the same throughout the school year except for graduating seniors, who may be reclassified at the end of the first semester. Minimum grade classification requirements are as follows:

Grade Classification	State/Local Credits Earned
Sophomore - 10th	6.0
Junior - 11th	12.0
Senior - 12th	18.0

Extracurricular Activity Participation
A student may participate in extracurricular activities at the beginning of the school year only if the student has earned the appropriate number or credits for the number of years that they have been in high school. A student must be enrolled for at least four hours per day to be considered in membership for one full day (19 TAC §129.21 [h]). The classes in which the student is enrolled for the four hours may be for either state approved or local credit. Students are eligible to participate in a League contest as representatives of a participant school if they meet the TEA requirements above. They must be full-time day students in a participant high school and be in compliance with written transfer and admission policies of the local school. Classes such as study hall, office aide and off-campus do not meet this

requirement. A student may not drop a class in which he/she has a grade below 70 after the end of the first four school weeks of the class without it being considered a failing grade for eligibility purposes. Each coach or director will explain these requirements to the students. Students interested in academic eligibility in athletics at an NCAA Division I or II College need to satisfy the requirements of NCAA by-law 14.3 (proposition 48). Interested parents and students need to contact the counselor and coach for more detailed information or visit the NCAA website at http://www.ncaa.org. To register for the NCAA Clearinghouse after completing the eleventh-grade visit www.ncaaclearinghouse.net.

Number of Years Completed in High School	Number State Credits at Beginning of the School Year
1	5
2	10
3	15

State Credit Courses/Course Credit

All courses which are to be counted toward grade level and graduation requirements must be state approved courses. Students must complete the correct graduation plan for their cohort upon entering high school to receive a diploma. High school students are required to complete courses mandated under their graduation plan. Credit for a course may be earned only if the student receives a grade equivalent to a 70 or higher on a 100-point scale. State-approved courses are aligned to the Texas Essential Knowledge and Skills (TEKS). Credits are awarded in semester increments. A one-semester course is worth a .5 credit. A full-year course is worth 1.0 credit, with some identified courses are worth more than one credit. If a student fails a semester course, the student must retake the entire course to earn graduation credit. If a student fails one semester of a multi-semester course, the student only retakes the semester that was failed. In a two-semester course, a student can gain credit if both semesters average to a 70 or higher for the year. High school courses taken in middle school will be included on a student's transcript but will not count in the grade point average (GPA).

Non-Credit Courses

Some courses do not count toward graduation credits, will not post to a student's transcript, and will not be calculated for GPA and class rank. Such classes may include:

- Office Aide
- Study Hall

Grading System

Student performance is reported using numerical grades. The State Board of Education has set 70 as a minimum passing grade. This state-wide grading system is as follows:

A	90 - 100
B	80 - 89
C	75 - 79
D	70 - 74
F	69 and below (not achieving mastery)
I	Incomplete

Six weeks grading averages are determined by grades recorded in the grade book. Student will earn ½ (.5) credits for any semester course with a semester grade of 70 or above.

Determination of Semester Grade
A semester grade consists of (three) six weeks grades and the semester exam. The (three) six week's grades average together for 6/7 of the semester grade and the semester exam counts as 1/7 of the semester grade.

Academic Eligibility Rules
A student shall be suspended from participation in all extracurricular activities sponsored or sanctioned by the school district during the three-week period following a grade reporting period in which the student received a grade lower than 70 in any class. This suspension continues for at least three weeks and is not removed during the school year until the student's grade in each class, other than certain identified classes, is 70 or greater. A student may continue to practice or rehearse with other students for an extracurricular activity but may not participate in a competition or other public performance. A suspended student may regain eligibility seven days after the six-week grading period ends or seven days after a three-week evaluation period (progress reporting). For a student to be eligible to participate in UIL activities, the student must be classified as a full-time student (five classes). Classes such as study hall, office aide, and off-campus do not meet this requirement.

Certain designated advanced classes are eligible for a waiver of the UIL "No Pass, No Play" Policy. For a list of these courses, please refer to pages 15 of this manual.

Guidelines for Determining Class Rank
Graduating seniors beginning with the class of 2024 shall be ranked within the graduating class as follows:

A weighted system shall be used for computing class rank. The actual grades on the report card and permanent record shall not be changed. The district shall assign weights to semester grades, including failing grades, earned in eligible courses and calculate a weighted numerical grade average. Eligible AP courses shall be categorized and weighted by a factor of 1.10 as Advanced courses. Eligible Honors and dual credit courses shall be categorized and weighted by a factor of 1.05 as Honors courses. All other eligible courses shall be categorized and weighted by a factor of 1.00 as Regular courses. [See policies at EIC Local].

Grades earned through correspondence courses, credit by examination (with or without prior instruction), summer school, distance learning courses, credit for courses not recognized by TEA, credit for which a pass/fail grade was given, and credit awarded in a non-accredited instructional setting shall not be included when determining class rank. In addition, high school courses taken in grade eight, as well as any two- or three-credit career and technology work-based training courses; or local credit course, shall not be included in the computation. [See policies at EIC Local].

GPA-Exempt Courses
SMSD encourages all students to pursue their areas of special talents and interests in order to enrich their academic achievement. To foster continued student participation in these classes, SMSD allows juniors and seniors to participate in the third and fourth years of the following courses on a GPA-exempt basis:

Yearbook
Athletics (Does not include PE)
Band
Cheerleading
Choir
Dance Team
Advanced Agriculture Courses
JROTC
Theatre

This option is available to junior and seniors who wish to take courses from the above list that are beyond the requirements for graduation. To qualify for the GPA exemption for the third or fourth year course, the student must have an overall B average in the prerequisite courses for the 3rd/4th year course for which he/she is seeking a waiver. He/she must also have already taken the first two years of this particular course at the high school campus. All students must meet the prerequisites of each course and have parent, teacher, and counselor approval.

- Junior students may receive a GPA exemption for only one course their junior year.
- Full year courses will be exempted for 1.0 credits only.
- Senior students who have not used any of the GPA exemptions during their junior year would qualify for two exemptions during their senior year as long as prerequisites are met.
- The option of securing exemptions for two classes in the same year is only available to seniors for whom no GPA exemptions have been used prior to their senior year
- Students may take only two (2) full-year courses or four (4) one semester courses total in their high school career on a GPA Exempt basis.

Attendance Requirements
To receive credit in a class, a student must attend at least 90 percent of the days the class is offered. A student who attends at least 75 percent but fewer than 90 percent of the days the class is offered may receive credit for the class if he or she completes a plan, approved by the principal, which allows the student to fulfill the instructional requirements for the class. If a student is involved in a criminal or juvenile court proceeding, the approval of the judge presiding over the case will also be required before the student receives credit for the class. [See policies at FEC.]

If a student attends less than 75 percent of the days a class is offered or has not completed a plan approved by the principal, then the student will be referred to the attendance review committee to determine whether there are extenuating circumstances for the absences and how the student can regain credit, if appropriate.

In determining whether there were extenuating circumstances for the absences, the attendance committee will use the following guidelines:

• All absences will be considered in determining whether a student has attended the required percentage of days.
• A transfer or migrant student begins to accumulate absences only after he or she has enrolled in the district.
• In reaching a decision about a student's absences, the committee will attempt to ensure that it is in the best interest of the student.

However, as with any other student, to receive credit a student who enrolls after instruction for the year or semester has begun is required to demonstrate academic achievement and proficiency of the subject matter as required under §28.021 and 19 T.A.C. §74.26.

Graduation Credit Requirements
House Bill 5 provides a new, more flexible graduation program that allows students to pursue their interests. The program contains four parts:

- A 22 credit Foundation Program which is the core of the new Texas High School Diploma
- Five endorsement options that allows students to focus on a related series of courses
- A higher performance category called Distinguished Level of Achievement
- Performance acknowledgments that note outstanding achievement

All courses which are to be counted toward graduation must be state approved courses. Students are required to enroll in courses necessary to complete the Foundation plus Endorsement Plan, the Distinguished Level of Achievement and/or a Performance Acknowledgement Plan or the Stafford Scholar Recognition Program to receive a SMSD diploma. Each of the plans offers students the opportunity to challenge themselves as they progress through high school. Under some circumstances the above requirement may be waived, and students may graduate under the Foundation High School Plan without an Endorsement, (22 credits).

Foundation High School Program Endorsement Opt-Out
The Texas Education Code, Section 28.025(b), allows a student to graduate under the Foundation High School Program without earning an endorsement if, after the student's sophomore year, the student and the student's parent/guardian are notified of the benefits of graduating with an endorsement and the student's parent/guardian gives written permission for the student to opt out of an endorsement. The benefits of graduating with an endorsement are available in the Graduation Toolkit, produced in partnership by the Texas Education Agency, the Texas Higher Education Coordinating Board, and the Texas Workforce Commission.

Special Education Graduation Requirements
A Special Education student is eligible to graduate when the student satisfactorily completes the minimum academic credit requirements for graduation applicable to regular education students, including satisfactory performance on the State of Texas Assessment of Academic Readiness (STAAR) test.

A Special Education student who does not meet the above requirements may graduate upon determination by the ARD Committee that the student has completed requirements specified in the IEP that have resulted in one of the following:

Full-time employment based on the student's abilities and local employment opportunities, in addition, sufficient self-help skills to enable the student to maintain the employment without direct and ongoing educational support of the local school district; or,

Demonstrate mastery of specific employability skills and self-help skills that do not require direct on-going educational support of the local school district;

Access to services that are not within the legal responsibility of public education.

*NOTE: All Special Education students' schedules are the result of an Admission, Review and Dismissal (ARD) Committee decision.

Summary of State Required Graduation Plans
Every student in a Texas public school who entered grade 9 in the 2014–15 school year and thereafter will graduate under the "foundation graduation program." Within the foundation

graduation program are “endorsements,” which are paths of interest that include Science, Technology, Engineering, and Mathematics (STEM); Business and Industry; Public Services; Arts and Humanities; and Multidisciplinary Studies. Endorsements earned by a student will be noted on the student’s transcript. The foundation graduation program also involves the term “distinguished level of achievement,” which reflects the completion of at least one endorsement and Algebra II as one of the required advanced mathematics credits. Earning the “distinguished level of achievement” designation allow one to compete for top ten percent automatic admissions eligibility at a Texas public university.

State law and rules prohibit a student from graduating solely under the foundation graduation program without an endorsement unless, after the student’s sophomore year, the student and student’s parent are advised of the specific benefits of graduating with an endorsement and submit written permission to the school counselor for the student to graduate without an endorsement. A student who anticipates graduating under the foundation graduation program without an endorsement and who wishes to attend a four-year university or college after graduation must carefully consider whether this will satisfy the admission requirements of the student’s desired college or university.

Graduating under the foundation graduation program will also provide opportunities to earn “performance acknowledgments” that will be acknowledged on a student’s transcript. Performance acknowledgments are available for outstanding performance in bilingualism and biliteracy, in a dual credit course, on an AP or IB examination, on certain national college preparatory and readiness or college entrance examinations, or for earning a state recognized or nationally or internationally recognized license or certificate. The criteria for earning these performance acknowledgments are prescribed by state rules, and the school counselor can provide more information about these acknowledgments.

Credits Required
The foundation graduation program requires completion of the following credits:

Course Area	Number of Credits: Foundation Graduation Program	Number of Credits: Foundation Graduation Program with an Endorsement
English/Language Arts	4	4
Mathematics	3	4
Science	3	4
Social Studies	3	3
Physical Education	1	1
Language other than English	2	2
Fine Arts	1	1
Professional Communications/Speech (SMSD)	.5	.5
Electives	4.5	6.5
Total	22 Credits	26 Credits

***This chart is a guide and is not a substitute for working with your counselor. Further information about graduation credit requirements can be found at http://TEA.Texas.gov/graduation.aspx

Endorsements	A student may earn an endorsement by successfully completing • curriculum requirements for the endorsement • a total of four credits in mathematics • a total of four credits in science • two additional elective credits
STEM	A coherent sequence or series of courses selected from one of the following: • CTE courses with a final course from the STEM career cluster • ENGLISH 3 • Mathematics • Science • A combination of no more than two of the categories listed above
Business and Industry	A coherent sequence or series of courses selected from one of the following: • CTE courses with a final course from the Agriculture, Food, & Natural Resources; Architecture & Construction; Arts, Audio/Video, Technology & Communications; Business Management & Administration; Finance; Hospitality & Tourism; Information Technology; Manufacturing, Marketing; Transportation, or Distribution & Logistics CTE career cluster • The following English electives: public speaking, debate, advanced broadcast journalism including newspaper and yearbook • Technology applications • A combination of credits from the categories listed above
Public Services	A coherent sequence or series of courses selected from one of the following: • CTE courses with a final course from the Education & Training; Government & Public Administration; Health Science, Human Services; or Law, Public Safety, Corrections, and Security career cluster • JROTC
Arts and Humanities	A coherent sequence or series of courses selected from one of the following: • Social studies • The same language in Languages Other Than English • Two levels in each of two language in Languages Other Than English • American Sign Language (ASL) • Courses from one or two categories (art, dance, music, and theater) in fine arts • English electives that are not part of Business and Industry
Multidisciplinary Studies	A coherent sequence or series of courses selected from one of the following: • Four advanced courses that prepare a student to enter the workforce successfully or postsecondary education without remediation from within one endorsement area or among endorsement areas that are not in a coherent sequence • Four credits in each of the four foundation subject areas to include English IV and chemistry and/or physics • Four credits in AP, IB, or dual credit selected from English, mathematics, science, social studies, economics, languages other than English, or fine arts

State Testing Requirements for Graduation

Students first enrolled in ninth grade or below beginning with the 2011-2012 school year must take the STAAR- EOC (State of Texas Assessment of Academic Readiness – End of Course) assessments for courses in which they are enrolled as part of their graduation requirements. The STAAR–EOC Assessments consist of end-of-course assessments that will align to the courses that students must take in order to graduate from high school. Collectively these tests are designed to place greater emphasis on college and career readiness.

The STAAR – EOC's Assessments include:
English Language Arts – English 1, English 2
Math - Algebra 1
Science - Biology
Social Studies - U.S. History

Each student will be required to achieve certain scores on the applicable EOC assessments to graduate, depending on the graduation program in which the student is enrolled. A student who has not achieved sufficient scores on the EOC assessments to graduate will have opportunities to retake the assessments in May, December, and June. If a student fails to perform satisfactorily on an EOC assessment, the district will provide remediation to the student in the content area for which the performance standard was not met.

Only students who are classified in grade 11 or 12 during the 2014-15, 2015-16, or 2016-17 school years who have taken and have failed to achieve the end-of-course (EOC) assessment performance requirements for graduation for not more than two courses are eligible for Individual Graduation Committee (IGC) review [TEC, §28.0258(a) and (l); 19 Tex. Admin. Code § 101.3022]. Due to the expiration of SB149 for students classified as juniors or seniors after 2016-2017 school year, any student who does not successfully meet a passing score on any STAAR assessment may not participate in Stafford High School graduation exercises.

District Requirements for Early Graduation
Students wishing to graduate early should first have a conference with their counselor to complete a transcript credit evaluation. The student's parents must write a letter addressed to the principal requesting permission for the student to graduate early including the expected date of graduation. To be eligible to graduate early, a student shall complete all coursework and end of course testing required of the ninth-grade class in which he or she begins high school. Required coursework must be taken in advance of the year of anticipated graduation by means of summer school, approved online coursework, or community college. It is the student's responsibility to absorb any costs associated with coursework that would accelerate their graduation date. Effective for students entering grade nine in the 2007–08 school year and thereafter, a student who completes the high school requirements in fewer than four years shall be ranked in the class with which he or she actually graduates and shall be eligible for honors positions. Calculation of ranking for December graduates shall be in the month of December when all graduation requirements have been met.

Concurrent Enrollment Courses/Dual Credit Courses
The District may enter into an agreement with a public junior college that allows the junior college to offer a course in which a student attending a district high school may enroll and for which the student may receive both concurrent course credit toward high school graduation requirements and course credit as a junior college student. Such a student will receive junior college credit if the student has received prior approval from his Stafford High School (SHS) counselor or principal to enroll in the concurrent credit course and has been admitted to the junior college. (Concurrent credit is defined as credit received from a junior college or community college.)

A Houston Community College (HCC) program is available to all students enrolled in specified advanced courses. Students must meet HCC enrollment requirements. Students who take the concurrent credit courses will earn regular college credit and high school credit for the course. A student must be a full-time student to enroll in a concurrent credit program. Students enrolling in the concurrent credit program must take the Texas Success Initiative Assessment Test (TSI) and pass sections related to the course selected for concurrent credit enrollment to satisfy The Texas Success Initiative Assessment (TSI) standards. Specific information can be obtained from HCC or the SHS counselor's office.

The District may enter into an agreement with a public college to form a dual credit partnership. Dual Credit means the process by which a high school student enrolls in a college or university course and receives simultaneous dual academic credit for the course from both the college and the high school [GNC (legal)]. The student must have prior approval from his SHS Counselor or principal to enroll in the dual credit course. (Dual credit is defined as credit received from a four-year college or university).

Prior to enrollment in a Texas public college or university, most students must take a standardized test, such as The Texas Success Initiative Assessment (TSI). The purpose of the TSI is to assess the reading, mathematics, and writing skills that entering freshmen-level students should have if they are to perform effectively in undergraduate certificate or degree programs in Texas public colleges and universities. This test may be required before a student enrolls in a dual-credit course offered through the district as well.

Alternative Methods for Earning Credit
Credit toward state graduation requirements may be granted for distance learning and correspondence courses only as follows:

- The institution offering the correspondence course is The University of Texas at Austin, Texas Tech University, or another public institution of higher education approved by the commissioner of education.
- Students may earn course credit through distance learning technologies such as satellite, internet, two-way videoconferencing, online courses, the Texas Virtual School Network (TxVSN), and instructional television.
- The distance learning and correspondence courses must include the state-required essential knowledge and skills for such a course.

The TxVSN is a state-led initiative for online learning authorized by Education Code Chapter 30A. The TxVSN is a partnership network administered by TEA in coordination with regional education service centers (ESCs), Texas public school districts and charter schools, institutions of higher education, and other eligible entities.

The TxVSN is comprised of two components-the online school (OLS) program and the statewide course catalog. See policy EHDE (LEGAL)

Transfer Credit
The District shall accept all credits earned toward state graduation requirements by students in accredited Texas school districts, including credits earned in accredited summer school programs. “Accredited” shall be defined as accreditation by TEA, an equivalent agency from another state, or an accrediting association recognized by the Commissioner. Credits earned in local credit courses may be transferred at the District’s discretion. Transfer students shall not be prohibited from attending school pending receipt of transcripts or academic records from the district the student previously attended. 19 TAC 74.26(a) (1).

Records and transcripts of students from Texas nonpublic schools or from out of state or out of the country (including foreign exchange students) shall be evaluated, and students shall be placed promptly in appropriate classes. The District may use a wide variety of methods to verify the content of courses for which a transfer student has earned credit. 19 TAC 74.26(a) (2)

A student enrolling from a non-accredited public, private, or parochial school, including a home school, shall be placed initially at the discretion of the principal, pending observation by classroom teachers, guidance personnel, and the principal. Criteria for placement may include:

- Scores on achievement tests, which may be administered by appropriate District personnel.
- Recommendation of the sending school.
- Prior academic record.
- Chronological age and social and emotional development of the student.
- Other criteria deemed appropriate by the principal.

Grades earned through correspondence courses, credit by examination (with or without prior instruction), summer school credit, distance learning courses, credit for courses not recognized by TEA, credit for which a pass/fail grade was given, and credit awarded in a non-accredited instructional setting shall not be included when determining class rank. In addition, high school courses taken in grade eight, as well as any two- or three-credit career and technology work-based training courses; or local credit course, shall not be included in the computation [EIC (local)].

Planning Your Schedule

High school course selection is among the most important academic decision a student will make. Careful planning of the four years of high school and at least the first two years of college is very important. All students must have a 4-year graduation plan on file with their counselor. This form is a worksheet for students, parents, and counselors to use to determine which courses the student needs for the next four years. This graduation plan is not binding and may be changed at any time, but it does help a student and his/her parents to plan the years in high school and beyond. As each high school year concludes, every student is one step closer to the future and the goals they have set for themselves. Stafford High School staff is available to assist in the planning process and successful completion of student/parent goals.

Academic Options

Students in SMSD are provided with a comprehensive set of course offerings that cover the essential knowledge and skills mandated by the Texas Education Agency. Students have several academic options when selecting classes. Students are advised to take courses at a level where they will be challenged and yet perform successfully.

- Advanced Academic: (starting with the freshman class of 2010-2011 and thereafter) with this level, classes will come with increased expectations for student performance, instructional delivery and rigorous academic content. All courses will be taught with a focus on readiness for the upcoming end of course assessments.
- Honors (formerly Pre-AP): Honors courses are more complex and abstract. Each course emphasizes the academic study and performance skills to help prepare the student for the Advanced Placement classes in that subject area.
- Advanced Placement (AP): AP classes cover the breadth of information, skills and assignments found in corresponding college courses and meets peer-review standards set by top educators in conjunction with the College Board. An AP class prepares students to take College Board Advanced Placement tests that may make them eligible to receive college credit while still attending High School. All students enrolled in Advanced Placement classes are expected to take the AP exams.
- Special Education Placement: Special Education services are provided to students who are found to be eligible for such services by the Admission, Review, and Dismissal (ARD) Committee. Eligibility is based on identified physical, mental and/or emotional difficulties that cause significant educational issues. Specialized instruction and related services to meet individual student needs are provided through both regular and special education courses. Specialized instruction is provided along the following continuum and reviewed for placement in the least restrictive environment annually:

- Classes with accommodations
- Classes with inclusion support
- Classes with modified course objectives
- Classes with different course objectives

Specific special education course titles are available through the special education department.

Stafford Early College and Career High School
See the Stafford Early College and Career High School 2026-2027 Course Selection guide addendum beginning on page 45.

Schedule Change Request
Every spring, students register for classes that they will need the following school year. Because class size and staffing decisions are determined by their choices, it is important for students to plan carefully. After school begins, course schedule changes will be made only if:

- The student is a senior that is not scheduled in a course needed for graduation.
- The student already earned credit for a course currently in their schedule.
- The student does not meet prerequisites for the course they are enrolled in.
- The student has previously failed the course with the same teacher.
- The student has been dismissed from a program where approval must be granted.
- The student does not have a full schedule (eight periods).

IF GRANTED, THE SCHEDULE CHANGE IS BINDING FOR THE SEMESTER AND WILL BE GRANTED ONLY IF THERE IS SPACE AVAILABLE. OTHER CLASS PERIODS, TEACHERS AND LUNCH PERIOD MAY ALSO CHANGE IN ORDER TO FULFILL THE SCHEDULE CHANGE REQUEST.

Advanced Placement Program
The Advanced Placement (AP) Program is a cooperative educational endeavor between secondary schools, colleges and universities. It exposes high school students to college-level material and gives them the opportunity to show that they have mastered course curriculum by taking an AP Exam. Colleges and universities can then grant credit, placement, or both to students who have done so.
AP exams are a significant part of the AP Program, but they are not the only part. AP courses lay the groundwork for students to succeed on the exams and later in a college or university.

There are many benefits for students who take AP courses.

They can study subjects of interest and challenge themselves with students who are similarly motivated. AP often helps steer students who are unsure about future plans toward college or advanced studies, and most colleges view any AP experience as a plus. This gives students a head start and increases their future options.
AP prepares students for the future by giving them those tools that will serve them well throughout their college careers.

AP Examinations are developed each year by committees of five to eight college and AP high school faculty appointed by the College Board and aided by consultants. The exams are based on the courses outlined in the College Board's Advanced Placement Course Descriptions.

*The availability of the courses for the following exams will be reviewed on a yearly basis depending on student interest and faculty availability.

Advanced Placement Courses:

AP Biology
AP Chemistry
AP Physics
AP Human Geography
AP World History
AP US History
AP Government
AP Economics
AP Psychology
AP Computer Science Principles
AP Pre-Calculus
AP Calculus AB
AP Statistics
AP English 3
AP English 4
AP Spanish 4
AP Spanish 5

Honors Courses:

Honors Biology
Honors Chemistry
Honors Physics
Honors World Geography
Honors World History
Honors Algebra 1
Honors Geometry
Honors Algebra 2
Honors English 1
Honors English 2
Honors Spanish 2
Honors Spanish 3

In order to ensure students' success in AP or Honors courses, certain criteria must be met prior to enrollment. Approval will be granted if a student qualifies according to the criteria below:

- Recommendation from current teacher, and a grade of 85 or above average for the year in the current academic area (if a student wants to take AP U.S. History, he/she should have at least an 85 in World History. If he/she passed a prerequisite course with less than an 85 average, that student may take the AP class with parent and teacher approval only).
- Passed the State Required Testing for the specific area of interest on the first attempt.

Due to the more rigorous requirements of AP/ Honors classes at the high school level, it is recommended that students take no more than three (3) AP and/or Honors classes at a time. An adequate number of students must register for the course for an AP class to be offered. Enrolling in an AP class means the student intends to sit for the AP exam.

To Drop an Honors or AP Class:

The high school master schedule has been designed to offer classes that best meet the interests and needs of the students based on enrollment in those classes. Therefore, a student will be allowed to drop an Honors or AP course only if one of the following conditions exists:

- Students are expected to seek support when needed in order to be successful in an Honors/AP course such as tutorials and conferencing with the teacher.

- The student may request to change from an Honors/AP to the Advanced Academic level only after the first six weeks grades are posted and their grade is below a 75.
- The student requests the change at the end of the semester and the student's average is below 75.
- A parent/teacher conference must be held prior to a change.
- All requests must be made through the student's Assistant Principal.

The student's numerical average at the time of the schedule change is the grade that will be recorded in the new class. Weighted points are not given unless a full semester credit has been earned. Withdrawal from an AP class could affect a student's class rank since AP classes are weighted greater than an academic class.

Special Education/ 504 Accommodations on Honors and Advanced Placement Courses

The following guidelines are intended to apply to eligible special education and Section 504 students who enroll in Honors or AP courses. While Honors/AP courses are open to any student wishing to enroll, ARD or Section 504 Committees should be aware that these are high level academic classes and accommodations will not be implemented if they alter the content or standards of the course. The following guidelines shall be applicable to all special education and section 504 students who enroll in Pre/AP courses:

- Accommodations for special education and 504 students may not alter the content or academic standards of the Honors/AP course. Thus, certain allowable accommodations may include, but are not necessarily limited to the following:
- Extended time for testing
- Opportunity to repeat and explain instructions
- Assignment notebook
- Minimal auditory distractions
- Encouragement for classroom participation
- Large print, Braille/ peer to read aloud
- Behavior intervention plan
- Assistive technology as defined by the committee
- Altered format of exams, such as highlighted instructions or alternative spacing of questions
- Altered assignments as needed for persons with motor or visual impairment

The following are examples of accommodations which would alter the content or standards of the course and are not allowable.

- Reduced assignments
- Special projects in lieu of assignments
- Exams of reduced length
- Open book exams
- Peer tutoring/ paired work arrangement
- Any reduction of content or standards of the course
- Reduced mastery

If the ARD committee or Section 504 Committee does not believe that a student will be successful in an Honors/AP course, it should notify the parents or the student as appropriate. While the decision to enroll in a Pre/AP class is ultimately made by the parent or student, the ARD or 504 Committee may meet and recommend removal of the students from the student if the student is not meeting the standards applicable to students in that program and, as a result, is failing or at risk of failure.

COURSE DESCRIPTIONS:

Stafford High School makes a concerted effort to offer courses and programs to all students; however, some courses may not be available due to staffing and class size. All prerequisites must be met prior to registering for the class unless they are waived in writing by the building principal.

ENGLISH
4 CREDITS REQUIRED FOR GRADUATION

English 1: 1901 Semesters: 2 Credits: 1 Grade: 9
Prerequisite: None

Students enrolled in English 1 increase and refine their communication skills. They will plan, draft, and complete written compositions on a regular basis. They will edit papers for clarity, appropriate language, and the correct use of the conventions (grammar) and literary terms correctly and interpret the possible influences of the historical context on a literary work. The research process will be used as a tool for learning, vocabulary development will be continued, and the significance of visual representations will be analyzed and critiqued.

Honors English 1: 1902 Semesters: 2 Credits: 1 Grade: 9
Prerequisite: Students must have demonstrated reading level at or above grade level; they must meet Honors criteria and sign a contract of commitment. In addition, student must complete the summer reading selections prior to the start of school. Students should be prepared to complete an assignment based on the summer reading selections shortly after school begins.

Students will develop higher-level critical thinking skills that provide more in-depth study of various aspects of the English 1 curriculum. They will also read more literature selections and will practice a greater variety of composition types than regular English.

Every summer, SMSD requires all students to complete a summer reading list before reporting to their next grade level. Students will receive the reading list from their current English teacher before the last day of the school year. Upon completion of the required list, students will turn in a mandatory reading project to their English teacher. Please contact your child's current English teacher or check the campus website during the summer for more information.

The novels should be purchased and read by the time school begins. The student will need a copy of the books during the first semester. A project will be assigned and due over the content of the novels within the first 6 weeks of school.

English 2: 2901 Semesters: 2 Credits: 1 Grade: 10
Prerequisite: English 1

Students enrolled in English 2 will continue to increase and refine their communication skills. They will plan, draft, and complete written compositions that have been edited for clarity, engaging language, and the correct use of the conventions (grammar) and mechanics of written English. An emphasis is placed on persuasive forms of writing, such as logical arguments, expressions of opinion and personal forms of writing. In literature, students will read extensively in world literature, use literary forms and terms, interpret use of literary forms and terms, and interpret the influences of the historical context on a literary work. The research process will be used as a tool for learning, vocabulary development will be continued, and the significance of visual representations will be analyzed and critiqued.

Honors English 2: 2902 Semesters: 2 Credits: 1 Grade: 10

Prerequisite: English 1 and must meet Honors criteria and sign a contract of commitment.
Students must complete the summer reading selections prior to the start of school.
Students should be prepared to complete an assignment based on the summer reading selections shortly after school begins.

Students will develop higher-level critical thinking skills that provide more in-depth study of various aspects of the English 2 curriculum. They will also read more literature selections and will write creatively. Writing skills will be further developed, including development of skills that prepare students for the Advanced Placement style of writing.

Every summer, SMSD requires all students to complete a summer reading list before reporting to their next grade level. Students will receive the reading list from their current English teacher before the last day school. Upon completion of the required list, students will turn in a mandatory reading project to their English teacher. Please contact your child's current English teacher or check the campus website during the summer for more information.

The novels should be purchased and read by the time school begins. The student will need a copy of the books during the first semester. A project will be assigned and due over the content of the novels within the first 6 weeks of school.

English 3: 3005 Semesters: 2 Credits: 1 Grade: 11

Prerequisite: English 1 and 2

Students enrolled in English 3 will continue to increase and refine their communication skills. They will plan, draft, and complete written compositions on a regular basis that have been edited for clarity, engaging language, and the correct use of the conventions (grammar) and mechanics of written English. Emphasis is placed on business forms of writing, such as the report, the business memo, the narrative of a procedure, etc. In literature, students read in multiple genres primarily from American literature, use literary forms and terms, and interpret the influences of the historical context on a literary work. The research process will be examined, vocabulary development will be continued, and the significance of visual representations will be analyzed and critiqued.

AP English 3: 3006 Semesters: 2 Credits: 1 Grade: 11

Prerequisite: English 1 and 2
Must meet AP criteria and sign a contract of commitment.
Students must take the AP exam in the spring.
Students must be successful on the English EOC.
Students must complete the summer reading selections prior to the start of school. Students should be prepared to complete an assignment based on the summer reading selections shortly after school begins.

Students will develop higher-level critical thinking skills that provide more in-depth study of various aspects of the English 3 curriculum, including evaluating literature, analyzing literary criticism, and writing literary analyses. Writing skills for the English Language and Composition Advanced Placement exam will be further developed. (Through examination, it is possible for students to receive college credit for English courses.)

Every summer, SMSD requires all students to complete a summer reading list before reporting to their next grade level. Students will receive the reading list from their current English teacher before the last day of the school year. Upon completion of the required list, students will turn in a mandatory reading project to their English teacher. Please contact your child's current English teacher or check the campus website during the summer for more information. The novels should be purchased and read by the time school begins. The student will need a copy of the books during the first semester. A project will be assigned and due over the content of the novels within the first 6 weeks of school.

English 4: 4007 Semesters: 2 Credits: 1 Grade: 12
Prerequisite: English 1, 2, and 3

Students in English 4 will continue the development of their communication skills. They will write in a variety of forms, including business, personal, literary, and persuasive. In literature, students read in multiple genres from British and World Literature, use literary forms and terms, and interpret the influences of the historical context on a literary work. The research process will be used as a tool for learning, vocabulary development will be continued, and the significance of visual representations will be analyzed and critiqued.

AP English 4: 4008 Semesters: 2 Credits: 1 Grade: 12
Prerequisite: English 1, 2 and 3
Must meet AP criteria and sign a contract of commitment
Students must take the AP exam in the spring.
Students needs to have already achieved success on the English EOC.
Students must complete the summer reading selections prior to the start of school. Students should be prepared to complete an assignment based on the summer reading selections shortly after school begins.

Students will develop higher-level critical thinking skills that provide more in-depth study of various aspects of the English 4 curriculum. Writing skills for the English Literature and Composition Advanced Placement exam will be developed. (Through examination, it is possible for students to receive college credit for English courses.)

Every summer, SMSD requires all students to complete a summer reading list before reporting to their next grade level. Students will receive the reading list from their current English teacher before the last day of school. Upon completion of the required list, students will turn in a mandatory reading project to their English teacher. Please contact your child's current English teacher or check the campus website during the summer for more information. The novels should be purchased and read by the time school begins. The student will need a copy of the books during the first semester. A project will be assigned and due over the content of the novels within the first 6 weeks of school.

ENGL 1301 – Composition 1: 3017 Semesters: 1 Credits: .5 College Credits: 3 Grade: 11-12
Prerequisite: English 1, 2
HCC application and TSI Assessment score

A course devoted to improving the student's writing and critical reading. Writing essays for a variety of purposes from personal to academic, including the introduction to argumentation, critical analysis, and the use of sources. (Core Texas college curriculum course)

ENGL 1302 – Composition 2: 3018 Semesters: 1 Credits: .5 College Credits: 3 Grade: 11-12
Prerequisite: ENGL 1301

A more extensive study of the skills introduced in ENGL 1301 with an emphasis on critical thinking, research, and documentation techniques, and literary and rhetorical analysis. (Core Texas college curriculum course)

ENGL 2322 – British Literature 1: 4009 Semesters: 1 Credits: .5 College Credits: 3 Grade 12
Prerequisite: ENGL 1302

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 – British Literature 2: 4010 Semesters: 1 Credits: .5 College Credits: 3 Grade 12
Prerequisite: ENGL 2322

A survey of the development of British literature from the Romantic period to the present. Students will study work 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.

ESOL English 1: 1982 Semesters: 2 Credits: 1 Grade: 9
Prerequisite: Committee approval

This course is designed to help limited-English-speaking students with their language concepts. It is designed as a transition course to provide additional assistance in English. It can also be used as one English credit.

ESOL English 2: 2903 Semesters: 2 Credits: 1 Grade: 10
Prerequisite: ESOL English I and committee approval

This course is designed to help intermediate to advanced English learners with their language concepts. It is designed as a transition course to provide additional assistance in English. It can also be used as one English credit.

Professional Communications: 1967 Semesters: 1 Credits: .5 Grade: 9-12
Prerequisite: None

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

SAT/ACT Prep: 2905 Semesters: 1 Credits: .5 Grade: 10-12
Prerequisite: none

This course will teach students the format of the test and provide both strategies and practice for questions on critical reading, sentence completion, grammar, usage, and writing. In addition to reviewing topics from pre-algebra, algebra, and geometry, students will become familiar with the format of the test and learn strategies. This course will also include a discussion of the effective use of a graphing calculator. Students taking this course will need to provide their own graphing calculator.

Yearbook: 2906 Semesters: 2 Credits: 1 Grade: 10-12
Prerequisite: English 1 and Teacher Approval

This course is organized for the purpose of creating and editing the school yearbook.

FOREIGN LANGUAGE
2 CREDITS REQUIRED FOR GRADUATION

Spanish 1: 1939 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: None

Note: Heritage Spanish students should not take this course. To determine whether you are a Heritage Spanish student, see the profile prior to the Spanish for Spanish Speakers 1 course description.

This course serves as an introduction to the Spanish language and culture. Basic listening, speaking, reading, writing, viewing and presentation skills are developed. Communication skills are the primary focus of this course. At the end of level 1, students will be able to express themselves and engage in simple conversation in Spanish within the limits of their knowledge of vocabulary and structure. Middle School students at Grades 7 or 8 who have received credit for Spanish 1 cannot repeat it at the high school level for credit.

Spanish for Spanish Speakers 1: 1985 Semesters: 1 Credits: 1 Grade 9-12
Prerequisite: Demonstrated proficiency

An accelerated Spanish course designed for native and heritage speakers to cover all regular Spanish 1 TEKS, but delivered in the target language, with a deeper study of Hispanic culture to fulfill the Spanish 1 credit in one semester.

Spanish 2: 1940 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: Spanish 1

The basic skills learned in Spanish 1 are broadened to include all verb tenses and grammatical structures, in addition to a greatly expanded vocabulary. Listening, speaking, reading, writing, viewing and presentational skills are stressed with an emphasis on oral language proficiency. While knowledge of other cultures, connections to other disciplines, comparisons between languages and cultures, and community interactions all contribute to and enhance the communicative language learning experience, communicative skills are the primary focus of this course.

Spanish for Spanish Speakers 2: 1986 Semesters: 1 Credits: 1 Grade 9-12
Prerequisite: Spanish 1
Demonstrated proficiency

An accelerated Spanish course designed for native and heritage speakers to cover all regular Spanish 2 TEKS, but delivered in the target language, with a deeper study of Hispanic culture to fulfill the Spanish 2 credit in one semester.

Honors Spanish 2: 1941 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: 85 average in Spanish 1, Spanish teacher approval and desire to continue study in Honors Spanish 3, Spanish 4 AP, and Spanish 5 AP.

NOTE: If you have been placed in this course, be sure to read the acceleration policy for Spanish credit that follow.

Students continue to further develop and improve listening, speaking, reading and writing skills. Emphasis is placed on comprehension of Spanish, as well as, reading and writing practice in the target language using a variety of activities incorporating familiar vocabulary and structures.

Dual Credit Spanish Prep: 1900 Semesters: 1 Credits: .5 College Credit: 3 Grade: 9
Prerequisite: Spanish 1
Proficiency Test Required
Satisfactory test score on TSI Assessment and HCC application

Designed for students in HCC Dual Degree Plan. Emphasis on basic skills in reading, spelling, and composition.

SPAN 1411 – Spanish II: 1972 Semesters: 1 Credits: .5 College Credit: 3 Grade: 9
Prerequisite: Spanish 1
Dual Credit Spanish Prep
Proficiency Test Required
Satisfactory test score on TSI Assessment and HCC application

Designed for students in HCC Dual Degree Program. Emphasis on basic skills in reading, spelling, and composition.
Grants .5 high school Spanish 2 credit. Student must complete SPAN 1412 in HCC Summer School

Honors Spanish 3: 1943 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: 85 average in Spanish 2 Honors
Spanish teacher approval and desire to continue study in Spanish 4 AP and Spanish 5 AP

The communication skills that deal with real world topics and solving daily problems through conversational exchange are emphasized. Vocabulary is extensive. Advanced grammar is covered mainly through application of the spoken language and reading; writing is used to reinforce the spoken language. Cultural practices and products are integrated in Literature, History and Geography of the Spanish-speaking countries.

SPAN 2311 – Spanish 3: 2990 Semesters: 1 Credits: .5 Grade:10
Prerequisite: SPAN 1411
SPAN 1412
Proficiency Test Required
Satisfactory test score on TSI Assessment and HCC application

Designed for students in HCC Dual Degree Program. The communication skills that deal with real world topics and solving daily problems through conversational exchange are emphasized. Vocabulary is extensive. Advanced grammar is covered mainly through application of the spoken language and reading; writing is used to reinforce the spoken language. **Grants .5 high school Spanish 3 credit.**

SPAN 2312 – Spanish 3: 2991 Semesters: 1 Credits:.5 Grade: 10
Prerequisite: SPAN 1411
SPAN 1412
SPAN 2311
Proficiency Test Required
Satisfactory test score on TSI Assessment and HCC application

Designed for students in HCC Dual Degree Program. The communication skills that deal with real world topics and solving daily problems through conversational exchange are emphasized. Vocabulary is extensive. Advanced grammar is covered mainly through application of the spoken language and reading; writing is used to reinforce the spoken language. **Grants .5 high school Spanish 3 credit.**

Advanced Placement Span 4 – Lang: 2907 Semesters: 2 Credits: 1 Grade: 11-12

Prerequisite: 85 average in Honors Spanish 3
Spanish teacher approval
Must meet AP criteria
All students must take the AP exam in the spring.

Spanish 4 AP course gives the students the opportunity to comprehend Spanish spoken formally and informally. Emphasis is placed on the student's ability to compose expository passages and to express ideas orally with accuracy and fluency. The acquisition of advanced vocabulary from authentic texts and a grasp of structures allow the student to read newspapers, magazine articles, and literature with ease and accuracy. This course will prepare the students for the College Board Advanced Placement Spanish Language examination.

AP Spanish 5 – Literature: 3566 Semesters: 2 Credits: 1 Grade: 11-12

Prerequisite: AP Spanish 4
85 average in AP Spanish 4
Must meet AP criteria
All students must take the AP exam in the spring.

This course is a comprehensive study of several genres of Hispanic literature. The specific goal of this course is to prepare students for the AP Spanish Literature Exam of the College Board. Students will read, analyze and discuss short stories, poetry and novels in the Spanish language. Students will also be responsible for keeping a journal in which essays on assigned topics will be written. This course will prepare the students for the College Board Advanced Placement Spanish Literature examination.

Acceleration Policy for Speakers of Foreign Languages and Verification of Credit

Speakers of Languages Other Than English (LOTE) taught at Stafford can take credit by exam tests to receive credit for courses.

1. The Foreign Language department chair administers the credit by exam for each level of the language for which the student desires to earn credit. The student will receive the individual grade earned for each exam.
2. The Foreign Language department chair will then forward the grade(s) earned from each credit by exam to both the registrar and the student's counselor.
3. If the student receives an average of at least 85, he/she may receive 1 credit.
4. If the student receives credit for level 2 or 3, he/she can receive 1 credit for the level below.
5. Students cannot receive more than 2 credits by exam test.

MATH
4 CREDITS REQUIRED FOR GRADUATION

"Finishing a mathematics course beyond Algebra 2 more than doubles the odds that a student who enters post-secondary education will successfully complete it." – US Department of Education

NOTE: Students may be required to take specialized mathematics courses based on individual performance on state required assessments.

Algebra I: 1904 Semesters: 2 Credits: 1 Grade: 9
Prerequisite: None

Students will build upon the mathematical foundation as presented in K-8. This course deals with concepts and skills used in solving problems involving real-world and mathematical situations, linear equations and inequalities in one- and two-variables, polynomials, quadratic functions, linear and non-linear functions, and data analysis.

Honors Algebra I: 1906 Semesters: 2 Credits: 1 Grade: 9
Prerequisite: Must meet Honors criteria and sign contract of commitment

This course will offer a more in-depth view of Algebra I, along with more difficult Algebra concepts. Higher level thinking skills will be stressed involving more complex reasoning.

Geometry: 1907 Semesters: 2 Credits: 1 Grade: 9-10
Prerequisite: Algebra I

This course deals with properties and theorems related to lines, planes, angles, polygons, circles, coordinate geometry, geometric solids, transformations, logic and measurement. The use of manipulative and technology will be stressed to help promote geometric thinking.

Honors Geometry: 1908 Semesters: 2 Credits: 1 Grade: 9-10
Prerequisite: Algebra I
Must meet Honors criteria and sign contract of commitment

This course will offer a more in-depth view of Geometry, along with more difficult geometric concepts. Higher level thinking skills will be stressed involving more complex reasoning such as in geometric proofs.

Mathematical Models with Applications: 2908 Semesters: 2 Credits: 1 Grade: 10-11
Prerequisite: Algebra I and Geometry

Students will use algebraic, graphical, and geometric reasoning. They will also use probability and statistics to recognize patterns and structures and to model information in order to solve problems from various disciplines. Models will be used to solve real-life problems involving money, data, chance, patterns, music, design, and science.

Algebra 2: 1905 Semesters: 2 Credits: 1 Grade: 10-12
Prerequisite: Algebra 1 and Geometry with a final grade of 75 or higher recommended

This course stresses concepts and skills associated with mathematical structure, relations and functions coordinate geometry, conic sections, polynomials, quadratic and square root functions, rational functions, exponential and logarithmic functions and data analysis. Graphing calculators and computers will be used where appropriate.

Honors Algebra 2: 2971 Semesters: 2 Credits: 1 Grade: 10-12
Prerequisite: Algebra 1 and Geometry
Must meet Honors criteria and sign contract of commitment

This course will offer a more in-depth view of Algebra 2 and will be conducted at an accelerated pace from regular Algebra 2.

Pre-Calculus: 1971 Semesters: 2 Credits: 1 Grade: 11-12
Prerequisite: Algebra 1, Geometry, and Algebra 2

Students will explore the following various functions: polynomial, rational, exponential, logarithmic, and trigonometric. They will use graphing calculators and computers along with algebraic manipulations.

AP Pre-Calculus: 4035 Semesters: 2 Credits: 1 Grade: 11-12
Prerequisite: Algebra 1, Geometry, and Algebra 2, with a final grade average of 80 or higher recommended
Must meet AP criteria

This course is designed to prepare college-bound students for a first course in calculus. It combines the topics of trigonometry, elementary analysis, and analytic geometry. It builds on the concepts and skills learned in Algebra 1, Algebra 2, and Geometry. An intuitive base and some working tools for the study of more advanced mathematics are developed.

Math 1314 – College Algebra: 3235 Semesters: 1 Credits: .5 College Credits: 3 Grade: 12
Prerequisite: Pre-Calculus
Satisfactory test score on TSI Assessment and HCC application

Topics include quadratics, polynomial, rational, logarithmic and exponential functions, system of equations, progression, sequences and series, matrices and determinants. A departmental final examination will be given in this course.

Math 1316 – Trigonometry: 3234 Semesters: 1 Credits: .5 College Credits: 3 Grade: 12
Prerequisite: Math 1314
Satisfactory test score on TSI Assessment and HCC application

Topics include solutions of triangles, Euler identity, graphing of trigonometric and inverse trigonometric functions, identities, trigonometric equations and an introduction to vector analysis. (Core Texas college curriculum course)

Math 1332 – Math 3236

AP Calculus AB: 3223 Semesters: 2 Credits: 1 Grade: 11-12
Prerequisite: Pre-Calculus
Must meet AP criteria.

This is a fifth-year course in a sequence beginning with Algebra 1. It is for college-bound students who plan to enter college requiring a strong mathematics background. This course is designed to prepare students for the Calculus AB Advanced Placement Test.

AP Statistics: 3212 Semesters: 2 Credits: 1 Grade: 11-12
Prerequisite: Algebra 2 with a final grade average of 80 or higher recommended
Must meet AP criteria

This course introduces students to the major concepts for collecting, analyzing, and drawing conclusions from data. Students who successfully pass the advanced placement test given in May receive 3 hours of college credit. Mathematically able students are encouraged to take both AP Statistics and AP Calculus.

SCIENCE
4 CREDITS REQUIRED FOR GRADUATION

Biology: 1910 Semesters: 2 Credits: 1 Grade: 9-10
Prerequisite: None

Students will gain an understanding of the relationships of different forms of life as they function in their environment. This laboratory-oriented course will cover such topics as the structure and function of cells, growth and development of organisms, genetics, ecology, taxonomy, metabolism and energy transfers in living organisms, the study of living systems and homeostasis. Students will use the scientific method throughout the course and will be expected to conduct themselves appropriately in the laboratory.

Honors Biology: 1911 Semesters: 2 Credits: 1 Grade: 9
Prerequisite: Must meet Honors criteria and sign contract of commitment

The course will offer a more in-depth view of regular Biology. Students may be transferred to Regular Biology based on conditions previously stated. Students will use the scientific method throughout the course and will be expected to conduct themselves appropriately in the laboratory.

Integrated Physics and Chemistry (IPC): 1913 Semesters: 2 Credits: 1 Grade: 9-10
Prerequisite: Algebra I or concurrent enrollment

This course is an introduction to Chemistry and Physics in which students will conduct field and laboratory investigations. It will prepare them to take Biology, Chemistry 1 and Physics 1. Topics such as motion, waves, energy transformations, properties of matter, and changes in matter and solution chemistry will be taught. Students will use the scientific method throughout the course and will be expected to conduct themselves appropriately in the laboratory.

Chemistry: 2910 Semesters: 2 Credits: 1 Grade: 10-11
Prerequisite: Algebra I
Completion of one unit of high school science
Algebra II or concurrent enrollment

Chemistry is a mathematically-based laboratory and field-oriented course which includes a study of topics such as measurement systems, atomic structures, chemical bonding, writing formulas and equations, gas laws, acids and bases, and solutions. Laboratory and field investigations will emphasize the use of process skills and safety. Students will use the scientific method throughout the course and will be expected to conduct themselves appropriately in the laboratory.

Honors Chemistry: 2911 Semesters: 2 Credits: 1 Grade: 10-11
Prerequisite: Algebra I
Completion of one unit of high school science
Must meet Honors criteria.

This course will offer a more in-depth view of regular Chemistry 1. Students will use the scientific method throughout the course and will be expected to conduct themselves appropriately in the laboratory. Students must complete a summer assignment before beginning Honors Chemistry 1 in the fall.

Physics 1: 3309 Semesters: 2 Credits: 1 Grade: 11-12
Prerequisite: Algebra I and completion of two units of high school science.

This course will be laboratory and field-oriented. It will cover measurements, velocity and acceleration, motion, force, energy, heat, sound, magnetism, electricity, and light. Students will use the scientific method throughout the course and will be expected to conduct themselves appropriately in the laboratory.

Forensic Science: 3319 Semesters: 2 Credits: 1 Grade: 11-12
Prerequisite: Biology and Chemistry

NOTE: To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b) (2) (C) of the Texas Education Code

This course is designed to challenge students with topics such as fingerprinting, DNA analysis, blood typing and spattering, trajectories (for ballistics as well as blood spattering) comparative anatomy, and chemical analysis of drugs, poisons, and trace evidence, and the dynamics of Physics.

Anatomy & Physiology of Human Systems: 3312 Semesters: 2 Credits: 1 Grade: 11-12
Prerequisite: Completion of three years of high school science course work.

This course is designed to introduce students to the structure and function of the human body. The gross anatomy on the organism level, microanatomy on the cellular level, and the physiological functioning of organ systems will be emphasized. Maintenance of homeostasis and the causes of disease will be studied. Limited organ and animal dissections as well as microscopic and physiological studies will be performed. Students will be expected to conduct themselves appropriately in the laboratory.

AP Physics: 3322 Semesters: 2 Credits: 1 Grade: 11-12
Prerequisite: Biology and Chemistry
Algebra 2 or enrolled concurrently
Must meet AP criteria and sign contract of commitment
Students must sit for the AP test in the Spring

AP Physics covers major areas of physics. Students learn to think like scientists: making predictions based on observations, writing hypothesis, designing and completing experiments, and reaching conclusions based on the analysis of data derived from these experiments. Students apply the concepts of physics to their everyday experiences and current events and issues in science and engineering. The course provides opportunities for guided inquiry and student-centered learning to foster critical thinking skills. **Students will be required to perform one to one half hours a week after school labs.**

AP Biology: 3304 & 3305 Semesters: 2 Credits: 1 Grade: 12
Prerequisite: Biology, Chemistry and Physics
Must meet AP criteria and sign contract of commitment
Students must sit for the AP test in the Spring

This course is designed to give students a more in-depth study of Biology. The course prepares students for the AP Biology examination and is taught at the college level using a college level text. Topics taught are tied together by unifying themes, which will be analyzed. Topics covered include chemistry of life cells and energetic, genetics, evolution, diversity of life, structure and function of living organisms and ecology. The laboratory portion of the course will consist

of 12 required AP biology labs. Students will be expected to conduct themselves appropriately in the laboratory. **Students will be required to perform one to one half hours a week after school labs.**

AP Chemistry: 3316 & 3317 Semesters: 2 Credits: 1 Grade: 12
Prerequisite: Chemistry and Physics
Algebra 2
Must meet AP criteria and sign contract of commitment
Students must sit for the AP test in the Spring

AP Chemistry is a laboratory-oriented course, which will allow the student the opportunity to work with chemistry laboratory equipment and to study principles and concepts of a first-year college chemistry course. Students will be able to demonstrate advanced-laboratory techniques. Areas of study such as atomic structure, reactions, stoichiometry, thermodynamics equilibrium and quantitative analysis are explored in-depth. Students will use the scientific method throughout the course and will be expected to conduct themselves appropriately in the laboratory. Students will review basic laboratory techniques and learn advanced laboratory techniques, such as UV-vies spectroscopy; Wrinkler titration for dissolved oxygen, electrophoresis, statistical analysis of collected data, and preparation of standard solutions given. Laboratories will be conducted on topic as prescribed by the College Board. Areas of study such as atomic structure, reactions, stoichiometry, thermodynamics equilibrium and quantitative analysis are explored in-depth. Students will use the scientific method throughout the course and will be expected to conduct themselves appropriately in the laboratory. **Students will be required to perform one to one half hours a week after school labs.**

BIO 1306 – Biology: 3325 Semesters: 1 Credits: .5 College Credits: 4 hours Grade: 12
Prerequisite: Biology, Chemistry and Physics
Satisfactory test score on TSI Assessment and HCC application

This course is designed to give students a more in-depth study of Biology. Discussions focus on biological chemistry, biological processes, cellular morphology, metabolism, genetics, and molecular biology. Students will be expected to conduct themselves appropriately in the laboratory. **Students will attend class at HCC Southwest. Must be taken concurrently with BIO 1106.**

BIO 1106 – Biology: 3327 Semesters: 1 Credits: .5 College Credits: 4 hours Grade: 12
Prerequisite: Biology, Chemistry and Physics
Satisfactory test score on TSI Assessment and HCC application

This course is designed to give students a more in-depth study of Biology. Discussions focus on biological chemistry, biological processes, cellular morphology, metabolism, genetics, and molecular biology. Students will be expected to conduct themselves appropriately in the laboratory. **Students will attend class at HCC Southwest. Must be taken concurrently with BIO 1306.**

BIO 1407 – Biology: 3326 Semesters: 1 Credits: 1 College Credits: 4 hours Grade: 12
Prerequisite: BIO 1306/1106

Topics include evolution, classification and ecological relationships, and organ systems of animals and plants. Students will be expected to conduct themselves appropriately in the laboratory. **Students will attend class at HCC Southwest. This course requires two class periods to satisfy HCC lab requirements.**

SOCIAL STUDIES
4 CREDITS REQUIRED FOR GRADUATION

World Geography: 1916 Semesters: 2 Credits: 1 Grade: 9
Prerequisite: None

Students will examine people, places, and environments from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the political, economic, and social processes that shape cultural patterns of regions the distribution and movement of population; relations among people, places and environments; and the concept of region. Students analyze how location affects economic activities in different economic systems. Students analyze how culture shapes the characteristics of regions and analyze the impact of technology and human changes on the environment.

Honors World Geography: 1917 Semesters: 2 Credits: 1 Grade: 9
Prerequisite: None
Must meet Honors criteria and sign contract of commitment

This is a college prep course stressing advanced placement concepts concerning writing, analysis and higher-level thinking skills. In this course, students examine people, places and environments from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present. Students study the physical processes and their interrelationships. Students analyze how location affects economic activities and identify the processes that affect political divisions and different points of view. Students compare how cultural components shape regions.

AP Human Geography: 1918 Semesters: 2 Credits: 1 Grade: 9
Prerequisite: Masters level on 8th grade Social Studies STAAR test
Masters level on 8th grade Reading STAAR test
Must meet AP criteria and sign contract of commitment
Students must sit for the AP test in the Spring

This is a college level course that includes the systematic study of patterns and processes that have shaped the Earth's surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. Students will also explore the geographic methods and tools geographers used to interpret maps and analyze geospatial data; understand and explain the implications of associations and networks among phenomena in places; recognize and interpret the relationships among patterns and processes at different scales of analysis; define regions and evaluate the regionalization process; and characterize and analyze changing interconnections among places. NOTE: When completed for one credit, this course may be used as a substitute for World Geography.

World History: 2909 Semesters: 2 Credits: 1 Grade: 10
Prerequisite: World Geography

World History is the only course that offers students an overview of the entire history of humankind. The major emphasis is on the study of significant people, events and issues from the earliest times to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilization as well as civilizations in other parts of the world. Students will be involved in individual and group research projects, outside readings, presentations and problem-solving activities, and current events.

Honors World History: 2912 Semesters: 2 Credits: 1 Grade: 10
Prerequisite: World Geography
Must meet Honors criteria and sign contract of commitment

This course is a college preparatory class with special emphasis placed on higher-level cognitive skills and proficient use of written communication. The major purpose of this course is to provide a survey that will assist students in understanding their own times. The students will be required to use analysis, synthesis, and evaluation skills to understand and to relate them to the complicated problems the world faces today.

AP World History: 2970 Semesters: 2 Credits: 1 Grade: 10
Prerequisite: AP Human Geography
Must meet AP criteria and sign contract of commitment
Students must sit for the AP test in the Spring

This is a college level course that includes a survey of the history of humankind, with major emphasis on the study of significant people, events, and issues from the 13th Century to the present. Students will use historical inquiry to research, interpret, and use multiple sources of evidence.

U.S. History: 3404 Semesters: 2 Credits: 1 Grade: 11
Prerequisite: World Geography or World History

This course is a year's study of significant people, lessons, and events after the period of Reconstruction. This is the second part of a two-year study of U.S. history that begins in grade 8. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies of the Cold War and post-Cold War eras; and reform movements including civil rights. Students examine the impact of geographic factors on major events. Students use critical-thinking skills to explain and apply different methods that historians use to interpret the past, including points of view and historical context.

AP U.S. History: 3405 Semesters: 2 Credits: 1 Grade: 11
Prerequisite: World Geography or World History
Must meet AP criteria and sign contract of commitment
Students must sit for the AP test in the Spring

This is a college level survey course of history from Colonization to the present. Students will participate in group and individual projects, historical issues, presentations and problem-solving activities. Students who have demonstrated exceptional mastery of previous social studies courses and desire coursework preparing them for college should find this course stimulating. The Advanced Placement Program for U.S. History is designed to provide students with analytic skills and factual knowledge necessary to deal critically with the growth and development of America's political, economic, and social institutions from 1492-Modern day. Students should learn to assess historical materials – their relevance to a given problem, their reliability, and their importance and to weigh the evidence and interpretations presented in historical scholarship. This course will prepare students to take the College Board Advanced Placement Test in May.

HIST 1301 – U.S. History: 3406 Semesters: 1 Credits: .5 College Credits: 3 hours Grade: 11
Prerequisite: World Geography and World History
Satisfactory test score on TSI Assessment and HCC application

This course is a study of the American nation from the English colonization to the close of the Civil War through Reconstruction, including exploration and colonization of the new world, the American Revolution, westward expansion, the civil War, and Reconstruction. (Core Texas college curriculum course)

HIST 1302 – U.S. History: 3407 Semesters: 1 Credits: .5 College Credits: 3 hours Grade: 11
Prerequisite: HIST 1301

This course is a study of the American nation from the end of the Reconstruction Era to the present. Topics include big business, big labor, the United States as a world power, the Great Depression and the Cold War. (Core Texas college curriculum course)

U.S. Government: 4038 Semesters: 1 Credits: .5 Grade: 12
Prerequisite: U.S. History and World Geography or World History

This course covers forms of government, functions and responsibilities of government, individual's role, political heritage, historical documents, federalism, freedoms, branches of government and checks and balances, political parties, election process, judicial process, local and state governments. Students will examine current governmental issues and events.

Govt 2305 – Government: 4046 Semesters: 1 Credits: .5 College Credits: 3 hours Grade: 12
Prerequisite: U.S. History and World Geography or World History
Satisfactory score on TSI assessment and HCC application

A study of theories of American democracy and other ideologies, United States and Texas Constitutions, federalism, state and local government, political economy, political socialization and public opinion, the media, interest groups, political parties and elections.

AP U.S. Government & Politics: 4047 Semesters: 1 Credits: .5 Grade: 12
Prerequisite: U.S. History and World Geography or World History
Must meet AP criteria and sign contract of commitment
Students must sit for the AP test in the Spring

This course will offer a more in-depth view of regular American Government strategies. It will include an in-depth analysis of concepts, issues and problems associated with the structure and function of government and the development of political behavior and philosophies. This course will prepare students to take the College Board Advanced Placement exam.

Economics: 4041 Semesters: 1 Credits: .5 Grade: 12
Prerequisite: U.S. History and World Geography or World History

This course deals with micro- and macroeconomics, economic organization, economic systems, decision making, competition and market structures, supply and demand, financial institutions, government spending, taxes, banking, the stock market, advertising, the world economy and creating your own copy with computer-generated competition.

AP Economics: 4045 Semesters: 1 Credits: .5 Grades: 12
Prerequisite: U.S. History and World Geography or World History
Must meet AP criteria and sign contract of commitment
Students must sit for the AP test in the Spring

This course will offer a more in-depth view of regular Economics. Students will take part in a more comprehensive study of economics and the free enterprise system, which involves problem-solving and analysis of macroeconomic principles. Group and individual projects, presentations and outside readings are expected in this class. This course prepares students to take the College Board Advanced Placement exam.

Econ 2301 – Economics: 4044 Semesters: 1 Credits: .5 College Credits: 3 hours Grade: 12
Prerequisite: U.S. History and World Geography or World History
Satisfactory score on TSI assessment and HCC application

Macroeconomics examines the fundamentals of the American economy as it relates to social welfare. Emphasis is on basic economic concepts and theories as they affect domestic and international markets. This course integrates behavioral social sciences to present solutions to real world problems. Macroeconomics includes measurements of GDP, fiscal and monetary policy. This course will help you to understand the kinds of markets businesses operate in as well as how firms maximize profits subject to constraints. There are many real-world applications of this course in game theory, industrial organization, environmental economics, anti-trust law and other areas.

Psychology: 2997 Semesters: 1 Credits: 0.5 Grade: 11-12
Prerequisite: None – Suggested Elective for Education Academy

This course introduces students to the scientific study of behavior and mental processes of humans. Students will continue to develop their critical thinking skills and communications skills through the research of relevant topics in psychology.

Sociology: 3416 Semesters: 1 Credits: 0.5 Grade: 11-12
Prerequisite: None - Suggested Elective for Education Academy

Students will develop an understanding and be able to apply sociological concepts and perspectives concerning human groups that include attention to socialization, culture, organization, stratification and societies. Students will gain an understanding of the factors that contribute to individual identity and development and identify how culture defines individual rights and responsibilities.

AP Psychology: 3422 Semesters: 1 Credits: 0.5 Grade: 11-12
Prerequisite: Must meet AP criteria and sign contract of commitment
Students must sit for the AP test in the Spring

This is a college level course that includes an introduction to the systematic and scientific study of the behavior and mental process of human beings and other animals. Students are exposed to the psychological facts, principles and phenomena associated with each of the major subfields within psychology. Students also learn about the methods psychologists use in their science and practice.

Personal Financial Literacy: 2913 Semesters: 1 Credits: 0.5 Grade: 10-12
Prerequisite: None

Students will begin to develop the skills and strategies that promote personal and financial responsibility related to financial planning, savings, investment, and charitable giving in the global economy. This course will start students on a path toward being in control of their financial futures. Five broad topics will be the foundation of the course: college and career planning, money management, savings and investing, income, and spending. The course will teach students to search and assess college and career opportunities, identify and prioritize their personal money management goals, develop personal spending and savings plans, comprehend the impact of time on the value of money, understand the cost of using credit, and protect assets.

FINE ARTS
1 CREDIT REQUIRED FOR GRADUATION

ART

Art I: 1944 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: None

Students may fulfill fine arts and elective requirements for graduation by successfully completing the art course. Four basic strands - perception, creative expression and performance, historical and cultural heritage, and critical evaluation - provide broad, unifying structures for organizing the knowledge and skills students are expected to acquire. Students rely on their perceptions of the environment, developed through increasing visual awareness and sensitivity, memory, imagination, and life experiences as a source for creating artworks. They express their thoughts and ideas creatively, while challenging their imagination, fostering reflective thinking, and developing disciplined effort and problem-solving skills.

Art 2: 1945 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite:

Students may fulfill fine arts and elective requirements for graduation by successfully completing one or more art courses. Four basic strands - perception, creative expression and performance, historical and cultural heritage, and critical evaluation - provide broad, unifying structures for organizing the knowledge and skills students are expected to acquire. Students rely on their perceptions of the environment, developed through increasing visual awareness and sensitivity to surroundings, memory, imagination, and life experiences as a source for creating artworks. Students will express their thoughts and ideas creatively, while challenging their imagination, fostering reflective thinking, and developing disciplined effort and problem-solving skills.

Art 3: 2914 Semesters: 2 Credits: 1 Grade: 10-12
Prerequisite: Art 1 and Art 2

Students may fulfill fine arts and elective requirements for graduation by successfully completing one or more art courses. Four basic strands - perception, creative expression and performance, historical and cultural heritage, and critical evaluation - provide broad, unifying structures for organizing the knowledge and skills students are expected to acquire. Students rely on their perceptions of the environment, developed through increasing visual awareness and sensitivity to surroundings, memory, imagination, and life experiences as a source for creating artworks. Students will express their thoughts and ideas creatively, while challenging their imagination, fostering reflective thinking, and developing disciplined effort and problem-solving skills.

Art 4: 3813 Semesters: 2 Credits: 1 Grade: 11-12
Prerequisite: Art 1, Art 2, and Art 3

Drawing extends the student's artistic understanding and experiences as introduced in Art 3. Emphasis will be placed on the advanced development of compositional skills and imaginative use of the elements and principles of design in advanced drawing. This class is designed to develop the student's commitment to a self-determined area of special interest. Students will apply advanced drawing tools and techniques to develop a series of artwork based on a personal style and theme. Art appreciation, self-evaluation, and higher-level problem-solving skills are emphasized. The history and the analysis of drawing will be emphasized.

Art History 1303 – Civilization 1: 3816 Semesters: 1 Credits: .5 College Credits: 3 Grade: 12
Prerequisite: Art 1, Art 2 and Art 3

This course examines painting, sculpture, architecture and related arts covering the Paleolithic through Gothic periods. Also covered is the art of non-western cultures. This course is a dual credit course and satisfies the fine arts or component area option of the HCC core.

Art History 1304 – Civilization 2: 3817 Semesters: 1 Credit: .5 College Credits: 3 Grade: 12
Prerequisite: Art History – Civilization 1

This course examines painting, sculpture, architecture and related arts from the Early Renaissance through the Twentieth Century. Also covered is the art of non-western cultures. This course is a dual credit course and satisfies the fine arts or component area option of the HCC core.

BAND

Band is a full-year course. The fall semester of marching band each year may be substituted for PE. If used in that manner, only the Spring semester counts toward the Fine Arts credit.

Band 1: 1946 Band 2: 2915 Band 3: 3807 Band 4: 4050

Band Semesters: 2 Credits: 1 Grade: 9-12
Prerequisites: By Audition

Course Requirements: Students must commit to working to benefit the entire band through their efforts during class time and in extra-curricular rehearsals and performances, as planned by the director. They are expected to be physically, mentally, and musically well-disciplined and to embody the highest standards of self-discipline and self-control.

Performances by the band will include concerts on and off campus, marching region band and subsequent competitive auditions, UIL marching, solo, ensemble, concert and sight reading contests, as well as other activities planned by the director.

Other: One semester of PE credit is offered for participation in each fall semester. One semester of fine arts credit is offered for participation in each spring semester. Due to physical and artistic requirements required for successful band performance, students are encouraged to remain in the band throughout both semesters of the year. Students are encouraged to study their instruments privately, with a teacher that is approved by the director. Students in good standing at the conclusion of their fourth consecutive semester of band participation which would include two semesters of UIL marching participation, typically earn a letter jacket that is awarded at the decision of the director.

Instrumental music instruction is separated into two components - marching band and band. The four basic strands of music study perception, creative expression and performance, historical and cultural heritage, and critical evaluation, provide broad, unifying structures to foster student learning within both the marching and concert units. In band, students develop their intellect, refine their emotions, understand the cultural and creative nature of musical artistry and make connections among music, the other arts, technology, and other aspects of social life. Through creative performance, students apply the expressive technical skills of music and critical-thinking skills to evaluate multiple forms of problem solving. Enrichment activities available to all students include Region Band auditions, solo, and small ensemble experiences designed to enhance student learning.

The Color Guard participates with the marching band during the fall semester and earns P.E. credit. Students are selected by audition and instructor approval in addition to color guard camp experience. A required fee is set by the band director for this opportunity. Students will learn dance movements and will be taught to twirl flags, sabers, etc. Color Guard members must perform at all football games, parades, and other performances relating to the guard.

CHOIR

Choir 1: 1947 Choir 2: 2916 Choir 3: 3827 Choir 4: 4052

Concert Choir Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: By Audition

This year-long class is designed to introduce students to the fundamentals of vocal music production. Emphasis is placed on the development of vocal skills, music theory, music appreciation vocal production and technique of mastering the voice as an instrument. Performances in UIL contests, and concerts, and the Spring "Pop" Show are "mandatory" requirements for a grade. All- State Choir try-outs, UIL Solo Contests and the end of the year Broadway Musical are "optional" but encouraged. The four basic strands of music are study perception, creative expression and performance, historical and cultural heritage, and response/evaluation. Participation in vocal music provides students with the necessary skills to develop intellectually, emotionally, while they demonstrate musical artistry, building a varied repertoire of music, learning to read and write music notation, etc. Students with UIL eligibility, and good standing academically receive their letter jacket at the conclusion of their fourth year in choir, provided they have participated and remained eligible all four years. Students are required to pay a nominal rental fee for the formal choir uniform consisting of a tuxedo ensemble for the men and floor-length formal gowns for the ladies. The casual choir uniform is a "purchased" choir polo style shirt and khaki slacks.

DANCE

Dance 1: 1948 Dance 3: 2972
Dance 2: 2917 Dance 4: 4053 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: None

To provide the beginning/intermediate/advanced dancer with study, further training, knowledge, and application in various dance styles with strong emphasis in terminology, proper alignment, anatomy, musicality, expression, aesthetic, dance history, and technical proficiency. The dance course is designed to provide students with opportunities to develop skills that can be used to create visual impressions. The learning of values and attitudes of oneself is also a very important part of the dance course. The nature of the course offers the cultivation of such behavior as self-discipline, creativity, working with others, leadership, fellowship, responsibility, self-pride, and appearance. During the course of the year, students of all levels of dance will also be required to be a part of public performances.

Dance Prod. 1: 1949 Dance Prod. 3: 3875
Dance Prod. 2: 2918 Dance Prod. 4: 4054 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: Tryout and Coach Approval

The Stafford Sensations Dance Team is open to all male and female students. Tryouts are held in the spring. Students must attend a SMSD school prior to tryouts. Summer camp is required.

THEATRE ARTS

Theatre Arts 1: 1950 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: None

Students will learn the basics of acting, directing, and technical issues in the theatre. No previous experience is required. The students will increase their understanding of self and others and develop clear ideas about the world.

Theatre Arts 2: 2919 Semesters: 2 Credits: 1 Grade: 10-12
Prerequisite: Theatre Arts 1

Students will practice advanced acting techniques, as well as learning to design and implement technical aspects of theatre. No previous experience is required. The students will increase their understanding of self and others and develop clear ideas about the world.

Theatre Arts 3: 3822 Semesters: 2 Credits: 1 Grade: 11-12
Prerequisite: Theatre Arts 1 & 2

Students will practice advanced acting techniques, as well as learning to design and implement technical aspects of theatre. No previous experience is required. The students will increase their understanding of self and others and develop clear ideas about the world.

Theatre Arts 4: 4055 Semesters: 2 Credits: 1 Grade: 12
Prerequisite: Theatre Arts 1, 2 & 3

Students will practice advanced acting techniques, as well as learning to design and implement technical aspects of theatre. No previous experience is required. The students will increase their understanding of self and others and develop clear ideas about the world.

PHYSICAL EDUCATION AND HEALTH

Physical Education: 1.0 credit required for graduation

Athletics, marching band, cheerleading, dance and JROTC substitute for PE credit. The first credit will fulfill state graduation requirements for PE. An additional 3 credits can be used to fulfill elective requirements of courses taken the first year. Those courses are marching band, drill team, and cheerleading. The courses must be taken during the fall semester and will only count as P.E. equivalents.

PE/Individual Sports: 1937 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: none

Students enrolled in Individual Sports are expected to participate in a wide range of individual sports that can be pursued for a lifetime. The continued development of health-related fitness and the selection of individual sports activities that are enjoyable are major objectives of this course.

Athletics: Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: Tryout and Coach Approval

Note: Students must have a current physical on file prior to tryouts.

Classes are restricted to those students accepted into specific sports. Students interested in a particular sport should contact the coaching staff for enrollment information.

Cheerleading 1-4: 1927, 2921, 3060, 4056 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: Tryout and Coach Approval

Note: Students must have a current physical on file prior to tryouts.

Cheerleading at SHS is open to all male and female students. Tryouts are held the spring prior to the elected year. Students must attend a SMSD school in the spring prior to tryouts. Gymnastics, cheers chants, jumps, dancing, and stunting are among the skills perfected in this class. The fall semester of this course can count for up to 3 state elective credits. Summer camp is required.

Health: 1919 Semesters: 1 Credits: .5 Grade: 9-12
Prerequisite: None

The course focuses on positive health practices emphasizing wellness for optimal health. Topics requires by the Comprehensive Health Education Act will be covered. Other topics will focus on areas of concern for this age group.

JROTC 1: 1938 JROTC 3: 3803
JROTC 2: 2938 JROTC 4: 4057 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: None

These courses may substitute for PE credit. The program provides leadership training and development that is essential for success in any career field. Each student's characteristics are identified through various assessment tools. Leadership values, principles, strategies and skills are taught and reinforced through case studies, team-building and other actual leadership activities. JROTC is not a recruitment program for the military and participation in the program does not incur any military obligation.

VIDEO GAME DESIGN/ESPORTS

Video Game Design: 3540 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: None

Video Game Design will allow students to explore one of the largest industries in the global marketplace and the new emerging careers it provides in the field of technology. Students will learn gaming, computerized gaming, evolution of gaming, artistic aspects of perspective, design, animation, technical concepts of collision theory, and programming logic. Students will participate in a simulation of a real video game design team while developing technical proficiency in constructing an original game design.

Video Game Programming: 3541 Semesters: 2 Credits: 1 Grade: 10-12
Prerequisite: Video Game Design

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

eSports Gaming Team: 3542 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: Tryout and Coach Approval

Classes are restricted to those students accepted by coaches. Students interested in a particular game should contact the coaching staff for enrollment information.

AP COMPUTER SCIENCE PRINCIPLES

AP COMPSCPRINC: 9557 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: None

AP Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. With a unique focus on creative problem solving and real-world applications, AP Computer Science Principles prepares students for college and career.

EARLY COLLEGE & CAREER HIGH SCHOOL
STAFFORD MUNICIPAL SCHOOL DISTRICT

STAFFORD EARLY COLLEGE, P-TECH & CAREER HIGH SCHOOL

2026-2027 Course Selection Guide

Stafford Municipal School District
Stafford Early College and Career High School



Course Selection Guide
2026-2027

Table of Contents

General Information:
- Concurrent Enrollment Courses/Dual Credit Courses 43
- Stafford Early College and Career High School 44
- SECC High School Associate Degree in Multidisciplinary Studies 45
- HCC Dual Credit Resource Tool Kit 49

Course Descriptions:
- Agriculture, Food and Natural Resources 53
- Arts, AV Technology and Communication 56
- Business Management and Administration 61
- Education and Training 65
- Health Science 66
- Hospitality and Tourism 68
- Information Technology 71
- Law, Public Safety, Corrections and Security 74
- Manufacturing 76
- Marketing 79
- Transportation, Distribution and Logistics 81

STAFFORD EARLY COLLEGE and CAREER HIGH SCHOOL

Welcome to Stafford Early College and Career High School (SECCHS)!
The Early College and Career High School is an innovative educational pathway that enables high school students to earn both a high school diploma and a two-year Associate's of Arts Degree in Multidisciplinary Studies or a Level I Workforce Certificate from Houston Community College free of charge in the same amount of time it would take to go to high school – saving the student and parent both time and money. SECCHS offers a learning environment where students can personalize their academic planning to meet their goals, help them develop leadership potential and prepare for their future. Our overall goal is to enroll motivated and determined students that are willing to work hard and take advantage of this incredible opportunity.

Director of Stafford Early College and Career High School	Deborah Nordt	281-261-9207	dnordt@staffordmsd.org
Director of Stafford Early College and Career High School Secretary	Jennifer Wade	281-261-9220	jwade@staffordmsd.org
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Course Selection Guide Overview

Concurrent Enrollment Courses/Dual Credit Courses
The district may enter into an agreement with a public community college that allows the community college to offer a course in which a student attending a district high school may enroll and for which the student may receive both concurrent/dual credit course credit toward high school graduation requirements and course credit as a community college student. (Concurrent/dual credit is defined as credit received from a community college.) Students who take the concurrent/dual credit courses will earn regular college credit and high school credit for the course. A student must be a full-time student to enroll in a concurrent/dual credit program. Students enrolling in the concurrent/dual credit program must take the Texas Success Initiative Assessment Test (TSIA2) and meet standards in sections related to the course selected for concurrent credit enrollment to satisfy The Texas Success Initiative Assessment (TSIA2) testing requirement. Specific TSIA2 Standard information for each assessment area can be obtained from HCC or the SECCHS website. The purpose of the TSIA2 is to assess the reading, writing, and mathematics skills, that students entering freshmen-level courses should have if they are to perform effectively in undergraduate certificate or degree programs in Texas public colleges and universities. This test may be required before a student enrolls in a dual-credit course offered through the district as well.

Stafford Early College and Career High School

To compete successfully in a high-tech, global economy, Texas must have a skilled and educated workforce that provides a foundation for continued economic productivity. Lifelong learning is the key to career and life success. The chart below illustrates the job opportunities and level of education necessary for our students to be competitive in the future job market. Starting with the freshmen class of 2012-2013 each student will be required to complete 1 credit from the CTE Programs of Study which will fulfill 1 state required elective towards graduation.

- Agriculture, Food, and Natural Resources:
  - The production, processing, marketing, distribution financing and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.
- Arts, A/V Technology and Communication (Film/Video Specialization):
  - The Graphic Design and Multimedia Arts program of study explores the occupations and educational opportunities associated with designing or creating graphics to meet specific commercial or promotional needs, such as packaging displays or logos. This program of study may also include exploration into designing and creating special effects, animation or other visual images using film, video, computers and other electronic tools and media, for use in computer games, movies, music videos and commercials.
- Business Management and Administration:
  - Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.
- Education and Training:
  - Planning, managing and providing education and training services and related learning support services.
- Health Science:
  - Planning, managing and providing therapeutic services, diagnostic services, health information, support services and biotechnology research and development.
- Hospitality and Tourism (Culinary Arts):
  - Planning, managing and providing services that include lodging, travel and tourism, recreation, amusements, attractions, and restaurant and food/beverage. This industry maintains the largest national employment base in the private sector.
- Information Technology:
  - Building linkages in IT occupations framework for entry level, technical, and professional careers related to design, development, support and management of hardware, software, multimedia, and systems integration services.
- Law, Public Safety, Corrections, and Security:
  - Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.
- Marketing, Sales, and Services:
  - Planning, managing and performing marketing activities to reach organizational objectives.
- Manufacturing (Welding):
  - Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities; such as production planning and control, maintenance and manufacturing/process engineering.
- Transportation, Distribution, and Logistics:
  - Planning, management and movement of people, materials and goods by road, pipeline, air rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Stafford Early College and Career High School (SECCHS) –
Associate Arts Degree in Multidisciplinary Studies

The Associate of Arts Degree in Multidisciplinary Studies is intended primarily for students planning on transferring to a senior college or university to receive a baccalaureate degree in the following areas: Communication, Business, Social Sciences, Humanities, and Fine Arts.

Commencing the fall of 1999, all Associate in Arts academic core curriculum courses taken at HCC are guaranteed to transfer and count toward the core curriculum at all Texas public higher educational institutions.

SAMPLE DEGREE PLAN FOR CORE CURRICULUM

COMPONENT PARTS FOR DEGREE	REQUIRED HOURS	COURSE(S)	LOCATION	YEAR TAKEN
Communications	6 hours	ENG 1301/ENG 1302	SHS	Junior
Mathematics	3 hours	Math 1314/*Math 1315	SHS	Senior
Life & Physical Sciences	6 hours	BIO 1306/1106/BIO 1407	SHS	Junior/Senior
Language, Philosophy & Culture	3 hours	BRIT LIT 2322/ *BRIT LIT 2323	SHS	Senior
Creative Arts	3 hours	ARTS 1303/*ARTS 1304	SHS	Junior
American History	6 hours	HIST 1301/HIST 1302	SHS	Junior
Government/Political Science	6 hours	GOVT 2305 GOVT 2306	SHS HCC	Senior Summer before Senior Year
Social & Behavioral Science	3 hours	ECON 2301	SHS	Senior Year
Component Area Option	9 hours	SPAN 1411/SPAN 1412 (Testing Required) EDUC 1300 SPH 1311	SHS SHS HCC	Freshman Freshman
*Electives	18 hours	***See sample list below - HCC has final approval		
	60 hours	for elective courses for the Degree Plan		

*Elective courses may be required to be taken online during the school year or during the summer prior to graduation.
*Academic Elective applied towards 18-hour elective requirement.
***Culinary Arts** (18 hours credit) starts with sophomore year, **must meet prerequisite**
***Welding** (18 hours credit) starts with sophomore year, **must meet prerequisite**
***Film/Video** (24 hours credit) starts with sophomore year, **must meet prerequisite**
*** **Business** (18 hours credit) starts with sophomore year, **must meet prerequisite**
***Information Technology** (24 hours credit) starts with sophomore year, **must meet prerequisite**
***Automotive Technologies** (18 hours credit) starts with sophomore year, **must meet prerequisite**

Prior to Enrolling in a Dual Credit Class:

1. Create your ApplyTexas account or log in using an existing account at www.applytexas.org (Instructions for completion below.)
2. Complete an on-line admission application to Houston Community College System using your ApplyTexas account. (Instructions for completion below.)

3. Meet the State of Texas Success Initiative Assessment requirements.

The Texas Success Initiative Assessment (TSIA2) is a state-mandated test designed to ensure that students have the academic skills necessary to perform effectively at the college level. If a student takes the TSI Assessment, he or she must complete the entire TSI Assessment and earn a passing score on the appropriate sections.

To qualify for a WAIVER/EXEMPTION from the TSI Assessment, a student must meet or exceed the scores on one of the following tests: **ACT, SAT, STAAR EOC.** A student must meet or exceed all portions of the test and the composite score to request a TSI Waiver/Exemption. See your Counselor for test score requirements.

ApplyTexas Application –What You Will Need BEFORE Getting Started:

E-mail Address:

- You will need a valid e-mail address to receive responses and updates about your application.

Social Security Number:

- Although it is not required to apply for admission, it is recommended.
- A social security number is required for Financial Aid and some Military and Veterans benefits.
- Providing a social security number helps us in processing applications faster.

Full Legal Name:

- To avoid delays in processing your application and other documents, please use your full, legal name.
- Do not use nicknames or abbreviations because this information will be used for your official record if you enroll.
- Use your full, legal name on all documents sent to the institution.

Step 1:

- Create your ApplyTexas account or log in using an existing account at www.applytexas.org

Step 2:

- Build your "Profile" (needed to start your application)
- Save Profile and verify your e-mail; enter the required information.

Step 3:

Under *My Applications* tab, click on "Start a New Blank Application"

- Select "Create a new 2-year college admissions application"
- Select target college under "Search for a college from an alphabetical list"
- Scroll down the list until you find Houston Community College
- Select "Houston Community College (Houston)" and click continue. If you are applying to take Dual Credit or Concurrent High School Enrollment, select 'Yes'

Step 4:

- Select semester in which you plan to first enroll.

Step 5:

- The major you choose is defined as an Area of Study at HCC. An Area of Study is intended to help students choose a career path by broadly grouping similar programs and majors. Within each Area of Study, HCC has many specific programs and majors. For a full list of Degrees and Certificates offered, please visit http://www.hccs.edu/programs/

Step 6:

- Enter your Social Security Number. Your social security number is not required for the application, but is recommended, and is REQUIRED if applying for Financial Aid.
- Many fields will already be completed based on the information you entered when you built your profile.
- Academic advisors at HCC are committed to your success. Whether your goal is to transfer to a four-year university or obtain the skills necessary to enter the workforce, academic advisors are trained and ready to help you build a plan for your future. For more information, visit http://www.hccs.edu/supportservices/advising/ .

Step 7:

- Confirm Information: Be sure to check the boxes and click Save Page.

Step 8:
Educational Background Section:

- Use the "Find Your High School" button to select your high school's name.
- Don't forget your graduation date. Expected Graduation date is required.

Step 9:
What kind of student am I?
Dual Credit: You are seeking to earn college credit for certain high school courses while completing high school requirements.
High School Early Admission: You are seeking to earn college credit while still in high school.

Step 10:
Residency: The information you provide in this section determines how your tuition is calculated. Read each question carefully. If you have any questions about your residency status after being admitted, please contact your counselor.

Step 11:
Certification of Information:

- Your application will not be submitted if you do not check the box next to EACH statement.

Step 12:
SUBMIT APPLICATION!

Dual Credit Student Responsibilities

Communicating with the professor: It is the responsibility of the college student to communicate directly with their college professor about all matters related to the class. It is not the responsibility of the parents, high school counselors, or administrators to communicate with the professor. If an impasse is reached, the professor should contact his or her HCC – Southwest Department Chair and the Dual Credit Faculty Liaison. The student should contact the College Ready counselor or other appointed Dual Credit Liaison for the high school.

Textbooks: SMSD is responsible for the purchase of all textbooks/materials for each course. Most often textbooks are provided electronically by Inclusive Access when a student is enrolled in the course.

Withdrawing from Class(es): If a student chooses to discontinue class as a Dual Credit student, he or she is responsible for contacting their College and Career Readiness Counselor at Stafford. Since a student's timely high school graduation may be in question as a result of withdrawing, the student may not drop the class without written permission from the College Ready counselor. **Important: Failure to submit the withdrawal form may result in the student receiving an F for the course.**

College Grades: HCCS reports only final grades, which are recorded on the Official HCCS Transcript. Grades are posted approximately one week after the semester ends and may be accessed online at www.hccs.edu or by phone at 1-877-341-4300 (available 24 hours). Students enrolled in a Dual Credit class meeting on the college calendar and taught by an HCC – Southwest professor as an off-campus class, will not receive official progress reports, only FINAL grades. Students who take a Dual Credit class meeting on the high school calendar and taught by and HCC – Southwest adjunct faculty member, will NOT receive official progress reports, only FINAL grades.

Transcripts: Students may request copies of their Official HCCS Transcript by completing the appropriate form, available at the Admissions Office at the Stafford campus or online through their Canvas account. Requests may also be made to have copies of Official Transcripts sent to other colleges and universities. Students may also request unofficial copies of their transcript for their personal use.

HOUSTON COMMUNITY COLLEGE

DUAL CREDIT

Resource Toolkit

Please note that underline text will link you to additional resources and information on www.hccs.edu.

What is Dual Credit?

- Houston Community College (HCC) provides high school students with the opportunity to earn college credit and high school credit through enrollment with HCC while in high school.
- Any high school student or homeschooled student who is currently enrolled in 9th grade (eligible starting their spring semester) or higher may be eligible for dual credit. Students demonstrating college readiness through a State of Texas approved college placement test can earn dual credit by taking an approved college class offered at a high school, HCC campus, or online.
- At little to no cost, students can begin their college careers while still in high school.

Definitions

- **Traditional Dual Credit Students** are enrolled in college courses and receive both high school and college credit.
- **Early College High School Students** have the opportunity to receive a high school diploma, associate degree or at least 60 college hours towards a baccalaureate degree.
- **P-TECH Students** work towards a Career and Technical Education (CTE) degree while gaining hands-on work experience.
- **HCC Canvas** is the Learning Management System (LMS) that supports learning and teaching. It provides students access to their grades, course information, and assignments.
- **Learning Options** include Online Anytime, Online on a Schedule, and Lab-Based Courses.

High School vs. College

Tips on how to succeed in a college course:

- You are expected to take responsibility for what you do and don't do, as well as for the consequences of your decisions.

Benefits of Dual Credit

- Save Money On College Tuition
- Access To College Resources
- Accelerate Time To Degree Completion
- Build Confidence
- Earn Transferable College Credits
- Earn CTE College Credits

Maximize the use of Modalities

- Online on a Schedule seems to be the best for student success.
- For concerns about attendance policy and other academic concerns please see student handbook 2020-21.
- Schools offer designated time that students can focus on each course.
- Develop flexibility and accountability.
- Organizational Management.
- Instructors develop "touch stone" where faculty and students connect online throughout the semester.
    - Students come to the meetings prepared with their questions and concerns drafted.

Have Further Questions Contact Us

Central College	Northeast College	Northwest College	Southeast College	Southwest College
1300 Holman Houston, Texas 77004 713.718.2952	8001 Fulton Houston, Texas 77002 713.718.2454	1550 Foxlake Dr. Houston, Texas 77084 713.718.5807	301 N. Drennan Houston, Texas 77003 713.718.7498	5601 West Loop South Houston, Texas 77081 713.718.2701

COLLEGE AND CAREER CENTER APPROVED STATEWIDE PROGRAMS OF STUDY

The statewide programs of study contain course sequences that lead to endorsements as part of the graduation requirements set forth by the Texas Education Agency. The Statewide Program of Study initiative does not replace endorsements but adds additional support to ensure students have access to CTE programs that lead to obtaining industry recognized Level I and/or II Certifications, to in-demand, high-skills, high-wage occupations and to postsecondary education and training opportunities.



PROGRAM OF STUDY:

The Animal Science program of study focuses on the science, research and business of animals and living organisms. It teaches students how to apply biology and life science to real-world life processes of animals and wildlife, either in laboratories or in the field, which could include a veterinary office, a farm or ranch, or any outdoor area harboring animal life. Students may also research and analyze the growth and destruction of species and research or diagnose diseases and injuries of animals.

Required Course Sequence:

Level I: Principles of Agriculture

Level 2: Livestock Production OR Equine Science and Small Animal Management OR Floral Design OR Agricultural Mechanics and Metal Technologies

Level 3: Wildlife, Fisheries and Ecology Management OR Agribusiness Management and Marketing OR Agricultural Structures Design and Fabrications

Level 4: Advanced Animal Science, Veterinary Medicine OR Agricultural Equipment Design and Fabrication

Principles of Agriculture, Food, & Natural Resources: 1963 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: None

This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. Students must attain academic skills and knowledge in agriculture. This course also allows students to develop knowledge and skills through hands-on activities in career opportunities, personal development, globalization, industry standards, details, practices, and expectations.

Livestock Production: 1954 Semesters: 2 Credits: 1 Grade: 10-12
Prerequisite: Principles of Agriculture, Food, & Natural Resources
Course Description: Livestock production covers all large animals. Cattle, horses, sheep, pigs, poultry, and goats are all covered in this course. Learn about different operations, animal systems and breeds of large animals. This course is the prerequisite for veterinary medical applications which will be offered the following year.

Equine Science: 2939 Semesters: 1 Credits: .5 Grade: 10-12
Prerequisite: Principles of Agriculture, Food, & Natural Resources

This course allows students to acquire knowledge and skills related to career opportunities, entry requirements, and industry expectations. This course is designed to develop knowledge and skills pertaining to the nutrition, reproduction, health, and management of the equine species. Students will analyze equine science as it relates to the selection and management of horses. Students will also learn about acceptable protocols and processes to maintain animal performance.

Small Animal Management: 2940 Semesters: 1 Credits: .5 Grade: 10-12
Prerequisite: Principles of Agriculture, Food, & Natural Resources

This course allows students opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings. Suggested small animals which may be studied in the course include, but are not limited to, small mammals, amphibians, reptiles, birds, dogs, and cats.

Wildlife, Fisheries & Ecology Management: 2941 Semesters: 2 Credits: 1 Grade: 11-12
Prerequisite: Principles of Agriculture, Food, & Natural Resources
Livestock Production or Equine Science and Small Animal Management

This course examines the management of game and non-game wildlife species, fish, and aqua-crops and their ecological needs as related to current agricultural practices. Students will study the identification and habitat of all game and fish species. This is the perfect land and sea class as it explores professions having to do with animals and fish, land and sea and the management of both. Study includes management and production of both the land and sea and the continuing ecology. Study includes boating safety, deer hunting, duck hunting, archery, fishing, gun safety and ecology. Students may qualify for the Hunters and Boater Safety Certification.

Veterinary Medical Applications: 3647 Semesters: 2 Credits: 1 Grade: 12
Prerequisite: Principles of Agriculture, Food, & Natural Resources
Livestock Production or Equine Science and Small Animal Management
Wildlife, Fisheries & Ecology Management

This course allows students an opportunity to learn, reinforce, apply, and transfer knowledge and technologies in a variety of settings. Topics covered in the course include, but are not limited to, veterinary practices as they relate to both large and small animal species.

Advanced Animal Science: 3644 Semesters: 2 Credits: 1 Grade: 12
Prerequisite: Principles of Agriculture, Food, & Natural Resources
Livestock Production or Equine Science and Small Animal Management
Wildlife, Fisheries & Ecology Management

Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards.

Floral Design: 1953 Semesters: 2 Credits: 1 Grade: 10-12
Prerequisite: Principles of Agriculture, Food, & Natural Resources
Must continue with Floral Pathway

This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students develop respect for the traditions and contributions of diverse cultures. Students will create and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations.

Agribusiness Management and Marketing: 3519 Semesters: 2 Credits: 1 Grade: 11-12
Prerequisite: Principles of Agriculture, Food, & Natural Resources
Floral Design
Must continue with Floral Pathway

Agribusiness Management and Marketing is designed to provide a foundation to agribusiness management and the free enterprise system. Instruction includes the use of economic principles such as supply and demand, budgeting, record keeping, finance, risk management, business law, marketing, and careers in agribusiness. To prepare for careers in agribusiness systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to agribusiness marketing and management and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

Agricultural Mechanics and Metal Technologies: 1951 Semesters: 2 Credits: 1 Grade: 10-11
Prerequisite: Principles of Agriculture, Food, & Natural Resources or Principles of Manufacturing
Must continue with Agricultural Mechanics Pathway

Agricultural Mechanics and Metal Technologies is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations.

Agricultural Structures, Design and Fabrications: 2957 Semesters: 2 Credits: 1 Grade: 11-12
Prerequisite: Principles of Agriculture, Food, & Natural Resources or Principles of Manufacturing
Agricultural Mechanics and Metal Technologies
Must continue with Agricultural Mechanics Pathway

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

Agricultural Equipment Design and Fabrication: 3520 Semesters: 2 Credit: 1 Grades 11-12
Prerequisites: Principles of Agriculture, Food, & Natural Resources or Principles of Manufacturing
Agricultural Mechanics and Metal Technologies
Agricultural Structures, Design and Fabrication

In Agricultural Structures Design and Fabrication, students will explore career opportunities, entry requirements, and industry expectations. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings.



PROGRAM OF STUDY

The Graphic Design and Multimedia Arts program of study explores the occupations and educational opportunities associated with designing or creating graphics to meet specific commercial or promotional needs, such as packaging displays or logos. This program of study may also include exploration into designing and creating special effects, animation or other visual images using film, video, computers and other electronic tools and media, for use in computer games, movies, music videos and commercials.

Level I Certificate – Film/Video Production Specialization awarded through Houston Community College

Required Course Sequence:

Level 1: Principles of Arts, A/V Technology

Level 2: Graphic Design I OR Animation I OR Commercial Photography I OR Dual Credit TV Field Production (RTVB 1321) and Audio/Radio Production I (RTVB 1309)

Level 3: Graphic Design II OR Animation II OR Commercial Photography II OR Dual Credit: Film and Video Editing (RTVB 2330) and Survey of Motion Picture (FLMC 1311)

Level 4: Practicum Graphic Design and Illustration OR Practicum Animation OR Practicum Commercial Photography OR Dual Credit Production Management (FLMC 1300), Scriptwriting (RTVB 1329) and Advanced Film and Video Editing (FLMC 2344) and TV/Video Production Workshop I (Capstone Course RTVB 2327)

Principles of Arts, A/V Technology: 1956 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: None

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.

Graphic Design and Illustration I: 2942 Semesters: 2 Credits: 1 Grade: 10-12
Prerequisite: Principles of AAVT

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 and Illustration II: 3654 Semesters: 2 Credits: 1 Grade: 11-12
Prerequisite: Principles of AAVT
Graphic Design and Illustration I

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.

Graphic Design and Illustration Practicum: 4074 Semesters: 2 Credits: 2 Grade: 12
Prerequisite: Principles of AAVT
Graphic Design and Illustration I
Graphic Design and Illustration II

Practicum instruction provides content aligned with challenging academic standards and relevant technical knowledge and skills for students to further their education and succeed in current or emerging professions. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. **This course requires two class periods.**

Animation I: 2943 Semesters: 2 Credits: 1 Grade: 10-12
Prerequisite: Principles of AAVT

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: 3592 Semesters: 2 Credits: 1 Grade: 11-12
Prerequisite: Principles of AAVT
Animation I

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

Animation Practicum: 4075 Semesters: 2 Credits: 2 Grade: 12
Prerequisite: Principles of AAVT
Animation I
Animation II

Practicum instruction provides content aligned with challenging academic standards and relevant technical knowledge and skills for students to further their education and succeed in current or emerging professions. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. **This course requires two class periods.**

Commercial Photography I: 2944 Semesters: 2 Credits: 1 Grade: 10-12
Prerequisite: Principles of AAVT

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.

Commercial Photography II: 3591 Semesters: 2 Credits: 1 Grade: 11-12
Prerequisite: Principles of AAVT
Commercial Photography I

Careers in commercial photography 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 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 technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs

Commercial Photography Practicum: 4076 Semesters: 2 Credits: 2 Grade: 12
Prerequisite: Principles of AAVT
Commercial Photography I
Commercial Photography II

Practicum instruction provides content aligned with challenging academic standards and relevant technical knowledge and skills for students to further their education and succeed in current or emerging professions. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations. **This course requires two class periods.**

Student must follow HCC enrollment guidelines and procedures to enroll in Dual Credit Film/Video Production Classes.

TV Field Production – RTVB 1321: 2960 Semesters: 1 Credits: .5 Grade: 10 College Credits: 3
Prerequisite: Principles of AAVT

Pre-production, production, and post-production processes involved in field television production. Topics include field camera setup and operation, field audio, television directing, and in-camera or basic continuity editing with an emphasis on underlying principles of video technology

Audio Production I – RTVB 1309: 3701 Semesters: 1 Credits: .5 Grade:10 College Credits: 3
Prerequisite: Principles of AAVT
RTVB 1321
FLMC 1311

Concepts and techniques of sound production including basic recording, mixing, and editing techniques.

Film and Video Editing – RTVB 2330: 3678 Semesters: 1 Credits: .5 Grade: 11 College Credits: 3
Prerequisite: Principles of AAVT
RTVB 1321
FLMC 1311

Film and broadcast editing for the preparation and completion of shorts, trailers, documentaries, and features.

Survey of Motion Picture – FLMC 1311: 2961 Semesters: 1 Credits: .5 Grade: 11 College Credits: 3
Prerequisite: Principles of AAVT
RTVB 1321

Overview of film History, Civilization, and techniques including introduction to cinematic elements and approaches to analysis and criticism.

Production Management – FLMC 1300: 4077 Semesters: 1 Credits: .5 Grade:12 College Credits: 3
Prerequisite: Principles of AAVT
RTVB 1321
FLMC 1311
RTVB 1329/1309
RTVB 2330/2337

Managing above- and below-the-line film or video production costs. Emphasizes analysis of scripts and treatments to determine production costs, crewing requirements, location needs, equipment rentals, and associated production costs. **MUST BE TAKEN CONCURRENTLY WITH RTVB 1329**

Scriptwriting – RTVB 1329: 3601 Semesters: 1 Credits: .5 Grade: 12 College Credits: 3
Prerequisite: Principles of AAVT
RTVB 1321
FLMC 1311

Writing scripts for film and electronic media. Emphasizes format and style for commercials, public service announcements, promos, news, and documentaries. **MUST BE TAKEN CONCURRENTLY WITH FLMC 1300.**

Adv. Film/Video Editing – FLMC 2344: 4078 Semesters: 1 Credits: .5 Grade: 12 College Credits: 3
Prerequisite: Principles of AAVT
RTVB 1321
FLMC 1311
RTVB 1329/1309
RTVB 2330/2337

Exploration of the creative possibilities of non-linear film and video editing. Includes editing aesthetics, titles, graphic design, compositing, and special effects. **MUST BE TAKEN CONCURRENTLY WITH RTVB 2337.**

TV Production Workshop – RTVB 2337: 3718 Semesters: 1 Credits: .5 Grade:12 College Credits: 3
Prerequisite: Principles of AAVT
RTVB 1321
FLMC 1311

A study of advanced application and design of video productions in location or studio shoots. This course provides information necessary to understand the production of professional video recordings. Basic camera, lighting, and recording skills will be introduced and reinforced with hands---on training. Students are required to attend additional lab hours outside of class. **MUST BE TAKEN CONCURRENTLY WITH FLMC 2344.**



PROGRAM OF STUDY

The Business Management/Administration program of study teaches how to plan, direct and coordinate the administrative services and operations of an organization. Through this program of study, students will learn the skills necessary to formulate policies, manage daily operations and allocate the use of materials and human resources. This program of study will also introduce students to mathematical modeling tools and organizational evaluation methods.

Level I Certificate – Microsoft Office Technology Specialization awarded through Houston Community College

Required Course Sequence:

Level 1: Principles of Business Marketing and Finance

Level 2: Banking and Financial Services and Virtual Business OR Business Law OR Dual Credit Computer Application I POFI 1301 and Dual Credit Basic Keyboarding POFI 1329

Level 3: Global Business and Human Resources Management OR Business Management OR Dual Credit Computer Applications II POFI 1341, Dual Credit Business Math POFI 1325 Dual Credit Spreadsheets POFI 1349 and Dual Credit Desktop Publishing POFI 2331

Level 4: Statistics and Business Decision Making OR Practicum in Business OR Dual Credit Computer Applications II POFI 1341, Dual Credit Business Math POFI 1325 Dual Credit Spreadsheets POFI 1349 and Dual Credit Desktop Publishing POFI 2331

Principles of Business, Marketing and Finance: 1958 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: None

This course allows students to gain knowledge and skills in economics, 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.

Banking and Financial Services: 2958 Semesters: 1 Credits: .5 Grade: 10-11
Prerequisite: Principles of Business, Marketing and Finance

Banking services are primarily concerned with accepting deposits, lending funds, and extending credit. Banking services include cash management, short-term investments, mortgages and other loans, credit cards, and bill payment. Banking services are delivered via several different institutions, from commercial banks (the largest group) and other traditional means (savings and loans associations, credit unions, and local banks) to newer ventures through insurance companies, brokerage houses, and the Internet.

Virtual Business: 2967 Semesters: 1 Credits: .5 Grade: 10-11
Prerequisite: Principles of Business, Marketing and Finance

Virtual Business is designed for students to start a virtual business by creating a web presence, conducting online and off-line marketing, examining contracts appropriate for an online business, and demonstrating project-management skills. Students will also demonstrate bookkeeping skills for a virtual business, maintain business records, and understand legal issues associated with a virtual business.

Business Law: 2951 Semesters: 2 Credits: 1 Grade:10-12
Prerequisite: Principles of Business, Marketing and Finance OR Principles of Law, Public Safety, Corrections and Security

Business Law is designed for students to analyze various aspects of the legal environment, including ethics, the judicial system, contracts, personal property, sales, negotiable instruments, agency and employment, business organization, risk management, and real property.

Global Business: 3608 Semesters: 1 Credits: .5 Grade: 11-12
Prerequisite: Principles of Business, Marketing and Finance
Banking and Financial Services/Virtual Business OR Business Law

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

Human Resource Management: 3614 Semesters: 1 Credits: .5 Grade: 10-12
Prerequisite: Principles of Business, Marketing and Finance

Students recognize, evaluate, and prepare for a rapidly evolving global business environment that requires flexibility and adaptability. Students analyze the primary functions of human resources management, which include recruitment, selection, training, development, and compensation.

Business Management: 4079 Semesters: 2 Credits: 1 Grade: 12
Prerequisite: Principles of Business, Marketing and Finance
Banking and Financial Services/Virtual Business OR Business Law

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

Statistics and Business Decision Making: 2959 Semesters: 2 Credits: 1 Grade: 11-12
Prerequisite: Principles of Business, Marketing and Finance
Banking and Financial Services/Virtual Business OR Business Law
Global Business and Human Resources Management OR Business Management

Statistics and Business Decision Making is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.

Practicum in Business Management I: 4080 Semesters: 2 Credits: 3 Grade: 12
Prerequisite: Principles of Business, Marketing and Finance
Human Resources Management and Touch Systems Data Entry
Money Matters or Virtual Business/Global Business

Students will learn advanced technology skills required in the business environment. Topics addressed include workplace technology standards in application of word processing, spreadsheets, databases, telecommunications, desktop publishing, presentation management, networking, operating systems, and emerging technologies. The teacher may add the workplace competencies to the course content. **This course requires three class periods and student must have off-campus employment.**

Student must follow HCC enrollment guidelines and procedures to enroll in Dual Credit Business Classes.

Computer Applications I – POFI 1301: 2962 Semesters: 1 Credits: .5 Grade: 11-12 College Credits: 3
Prerequisite: Principles of Business, Marketing and Finance
Human Resources Management and Touch Systems Data EntrySPAN

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

Basic Keyboarding – POFIT 1329: 2963 Semesters: 1 Credits: .5 Grade: 11-12 College Credits: 3
Prerequisite: Principles of Business, Marketing and Finance
Human Resources Management and Touch Systems Data Entry

Skill development in the operation of the keyboard by touch and applying proper keyboarding techniques. Emphasis is on the development of acceptable speed, accuracy levels, and formatting basic documents.

Computer Applications II – POFI 1341: 3713 Semesters: 1 Credits: .5 Grade: 11-12 College Credits: 3
Prerequisite: POFI 1301
POFIT 1329

Continued study of current computer terminology and technology. Advanced skill development in computer hardware, software applications, and procedures. The student will demonstrate proficiency in commonly used software applications and identify and explain the concepts involved in producing documents using advanced features of software applications. Emphasis is on developing end-user proficiency skills for office environments.

Business Math – POFIT 1325: 3714 Semesters: 1 Credits: .5 Grade: 11-12 College Credits: 3
Prerequisite: POFI 1301
POFIT 1329

Skill development in the use of electronic calculators and business mathematical functions. Emphasis on business problem-solving skills using spreadsheet software and/or electronic calculator/keyboard.

Spreadsheets – POFI 1349: 4081 Semesters: 1 Credits: .5 Grade: 12 College Credits: 3
Prerequisite: POFI 1301
POFIT 1329
POFI 1341
POFIT 1325

Skill development in the use of a spreadsheet software package. Topics include worksheet creation and manipulation functions, templates, macro programming data-base functions, data-table features, and graphics. The student will identify spreadsheet terminology and concepts; perform shortcut functions; modify worksheets; and insert graphics in worksheets. Study of computer applications from business productivity software suites. Emphasis is on developing end-user proficiency skills for office environments.

Desktop Publishing – POFI 2331: 4082 Semesters: 1 Credits: .5 Grade: 12 College Credits: 3
Prerequisite: POFI 1301
POFIT 1329
POFI 1341
POFIT 1325

In-depth coverage of desktop publishing terminology, text editing, and use of design principles. Emphasis on layout techniques graphics, multiple page displays, and business applications. **MUST BE TAKEN CONCURRENTLY WITH SPREADSHEETS POFI 1349.**



PROGRAM OF STUDY

The Teaching and Training program of study prepares students for careers related to teaching, instruction, and creation of instructional and enrichment materials. The program of study introduces students to a wide variety of student groups and their corresponding needs. It familiarizes them with the processes for developing curriculum, coordinating educational content, and coaching groups and individuals.

Required Course Sequence:

Level 1: Principles of Education and Training
Level 2: Human Growth and Development
Level 3: Instructional Practices in Education *Anatomy and Physiology Recommended
Level 4: Practicum in Education and Training *Anatomy and Physiology Recommended

Principles of Education and Training: 1964 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: None

This course is designed to introduce students to the various careers available within the education and training career cluster. Students will also gain an understanding of the basic knowledge and skills essential to careers within the cluster.

Human Growth and Development: 1998 Semesters: 2 Credits: 1 Grade: 10-12
Prerequisite: Principles of Education and Training

This course addresses knowledge and skills related to child growth and development from prenatal through school-age, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.

Instructional Practices in Education: 3636 Semesters: 2 Credits: 2 Grade: 11-12
Prerequisite: Principles of Education and Training
Human Growth and Development

Instructional Practices in Education and Training is a field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators or trainers in direct instructional roles with elementary school, 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. **This course requires two class periods.**

Practicum in Education and Training: 4083 Semesters: 2 Credits: 2 Grade: 12

Prerequisite: Principles of Education and Training
Human Growth and Development
Instructional Practices in Education

The Practicum in Education is a field-based internship that provides students with background knowledge of child and adolescent development principles of effective teaching and training practices. **This course requires two class periods.**



PROGRAM OF STUDY

The Health Science/Healthcare Diagnostics program of study introduces students to occupations and educational opportunities related to performing complex medical laboratory tests for the diagnosis, treatment, and prevention of disease. This program of study may also include exploration into the opportunities associated with blood laboratories as well as radiologic technology and ultrasound technology.

Required Course Sequence:

Level 1: Principles of Health Science
Level 2: Health Science Theory **Recommended to take Concurrently** - Human Growth and Development
Level 3: Medical Terminology
Level 4: World Health Research AND/OR Anatomy and Physiology of the Human Systems OR Practicum in Health Science

Principles of Health Science: 1959 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: None

This course provides an overview of the therapeutic, diagnostic, health informatics, support services and biotechnology research and development systems of the health care industry. Students will realize that quality health care depends on the ability to work well with others, and that professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities.

Health Science Theory: 1995 Semesters: 2 Credits: 1 Grade:10-12
Prerequisite: Principles of Health Science

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

Human Growth and Development: 1998 Semesters: 2 Credits: 1 Grade: 10-12
Prerequisite: Principles of Education and Training OR Principles of Health Science

This course addresses knowledge and skills related to child growth and development from prenatal through school-age, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children. Can be concurrently taken with Health Science Theory

Medical Terminology: 3585 Semesters: 2 Credits: 1 Grade: 11-12
Prerequisite: Principles of Health Science
Health Science Theory

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

Anatomy & Physiology of Human Systems: 3312 Semesters: 2 Credits: 1 Grade: 11-12
Prerequisite: Completion of three years of high school science course work
Principles of Health Science
Health Science Theory
Medical Terminology

This course is designed to introduce students to the structure and function of the human body. The gross anatomy on the organism level, microanatomy on the cellular level, and the physiological functioning of organ systems will be emphasized. Maintenance of homeostasis and the causes of disease will be studied. Limited organ and animal dissections as well as microscopic and physiological studies will be performed. Students will be expected to conduct themselves appropriately in the laboratory.

World Health Research: 4084 Semesters: 2 Credits: 1 Grade:12
Prerequisites: Principles of Health Science
Health Science Theory
Medical Terminology

The World Health Research course is designed to examine major world health problems and emerging technologies as solutions to these medical concerns. It is designed to improve students' understanding of the cultural, infrastructural, political, educational, and technological constraints and inspire ideas for appropriate technological solutions to global medical care issues.

Practicum in Health Science I: 1955 Semesters: 2 Credits: 1 Grade:11
Prerequisites: Principles of Health Science
Health Science Theory
Medical Terminology
Instructor Approval

This course is designed to equip students with the knowledge, technical skills, and work habits required for an entry-level position in a Health Professional setting by offering problem-solving exercises, by utilizing real-world scenarios. This course places a strong emphasis on ethics, accountability, professionalism, and the individuals' commitment to the pursuit of lifelong personal, educational, and professional development, as it relates to the Health Science field.

Practicum in Health Science II: 4085 Semesters: 2 Credits: 1 Grade:12

Prerequisites: Principles of Health Science
Health Science Theory
Medical Terminology
Practicum in Health Science I
Instructor Approval Required

This course is designed to equip students with knowledge, technical skills, and work habits required for an entry-level position in a Health Science related area. This course encourages active student participation and may include group discussions and projects, laboratory work, simulations, demonstrations, field trips, guest speakers, and lectures. A strong emphasis is placed on ethics, accountability, professionalism, and the individual's commitment to pursue lifelong personal and professional development.



CULINARY ARTS
PROGRAM OF STUDY
The Culinary Arts program of study introduces student to occupations and educational opportunities related to the planning, directing, or coordinating activities of a food and beverage organization or department. This program of study also explores opportunities involved in directing and participating in the preparation and cooking of food.

Level I Certification – Prep Cook/Cook I awarded through Houston Community College

Required Course Sequence:

Level 1: Principles of Hospitality and Tourism
Level 2: Dual Credit Purchasing of Hospitality Operations RSTO 1325 and Dual Credit Basic Food Preparation CHEF 1301
Level 3: Dual Credit Intermediate Food Preparation CHEF 2201 and Dual Credit Advanced Food Preparation CHEF 2231 Hospitality Services can be taken in addition with Instructor Approval
Level 4: Dual Credit Introduction to Hospitality HAMG 1321 and Dual Credit Fundamentals of Baking PSTR 1301, Hospitality Services can be taken in addition with Instructor Approval

Principles of Hospitality and Tourism: 1960 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: None

Students will learn about local and regional tourism issues, develop a career portfolio, and introduce the basics of cooking.

Purchasing for Hospitality Operations RSTO 1325: 2946 Semesters: 1 Credits: 1 Grade:10-12 College Credits: 3
Prerequisite: Principles of Hospitality and Tourism

Study of purchasing and inventory management of foods and other supplies to include development of purchase specifications, determination of order quantities, formal and informal price comparison, proper receiving procedures, storage management, and issue procedures. Emphasis on product cost analysis, yield, pricing formulas, controls, and record keeping at each stage of the purchasing cycle. **This course requires two class periods.**

Basic Food Prep – CHEF 1301: 2964 Semesters: 1 Credits:1 Grade:10-12 College Credit: 3
Prerequisite: Principles of Hospitality and Tourism

A study of the fundamental principles of food preparation and cookery to include Brigade System, cooking techniques, material handling, heat transfer, sanitation, safety, nutrition, and professionalism. **This course requires two class periods.**

Intermediate Food Prep – CHEF 2201: 3581 Semesters: 1 Credits: 1 Grade:11-12 College Credit: 3
Prerequisite: Principles of Hospitality and Tourism
RSTO 1325
CHEF 1301

Continuation of previous food preparation course. Topics include the concept of precooked food items, as well as scratch preparation. Covers full range of food preparation techniques. **This course requires two class periods.**

Advanced Food Prep – CHEF 2231: 3511 Semesters: 1 Credits: 1 Grade: 11-12 College Credits: 3
Prerequisite: Principles of Hospitality and Tourism
RSTO 1325
CHEF 1301

Topics include the concept of pre-cooked food items and the preparation of canapés, hors d'oeuvres, and breakfast items. **This course requires two class periods.**

Introduction to Hospitality – HAMG 1321: 4086 Semesters: 1 Credits: 1 Grade: 12 College Credits: 3
Prerequisite: Principles of Hospitality and Tourism
RSTO 1325
CHEF 1301
CHEF 2201
CHEF 2231

An overview of the hospitality industry including the organizational structure within the lodging and food service establishments in which various career opportunities are outlined. **This course requires two class periods.**

Fundamentals of Baking – PSTR 1301: 4087 Semesters: 1 Credits: 1 Grade: 12 College Credits: 3
Prerequisite: Principles of Hospitality and Tourism
RSTO 1325
CHEF 1301
CHEF 2201
CHEF 2231
Fundamentals of baking including dough, quick breads, pies, cakes, cookies, tarts, and doughnuts. Instruction in flours, fillings, and ingredients. Topics include baking terminology, tool and equipment use, formula conversions, functions of ingredients, and the evaluation of baked products. **This course requires two class periods.**

Hospitality Services: 3521 Semesters: 2 Credits: 1 Grade: 12
Prerequisite**:** **Instructor Approval Required and must be active in SkillsUSA**
Principles of Hospitality and Tourism
RSTO 1325
CHEF 1301
CHEF 2201
CHEF 2231
Hospitality Services provides students with the academic and technical preparation to pursue high-demand and high-skill careers in hospitality related industries. The knowledge and skills are acquired within a sequential, standards-based program that integrates hands-on and project-based instruction. Standards included in the Hospitality Services course are designed to prepare students for nationally recognized industry certifications, postsecondary education, and entry-level careers. In addition, Hospitality Services is designed so that performance standards meet employer expectations, enhancing the employability of students.



PROGRAM OF STUDY

The Information Technology program of study explores occupations and educational opportunities associated with designing, creating, and modifying websites. This program of study may also explore integrating websites with other computer applications and converting written, graphic, audio and video components to compatible web formats by using software designated to facilitate the creation of web and multimedia content.

Required Course Sequence:

Level 1: Principles of Information Technology
Level 2: Dual Credit Introduction to Computers ITSC 1301 and Dual Credit Personal Computer Hardware ITNW 1425
Level 3: Dual Credit Personal Computer Hardware ITSC 1425 and Dual Credit UNIX Operating System I ITSC 1307
Dual Credit Computer Programming (Swift I) ITSE 1402
Dual Credit Computer Virtualization ITNW 1313
Level 4: Dual Credit Information Technology Security ITSY 1342
Dual Credit Windows Client Operating System ITMT 1358
Dual Credit Mobile Applications Development ITSE 1333
Dual Credit IOS Application Development (Swift Certification only)

Principles of Information Technology: 1965 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: None

This course allows students to develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students will enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment. Students will identify various employment opportunities available in the information technology field, demonstrate knowledge of the hardware components associated with information systems, demonstrate knowledge of the different software associated with information systems, and analyze network systems.

Student must follow HCC enrollment guidelines and procedures to enroll in Dual Credit Information Technology Courses.

Introduction to Computers: ITSC 1301: 2949 Semesters: 1 Credits: .5 Grade: 10 College Credit: 3
Prerequisite: Principles of Information Technology

Students acquire principles of computer maintenance, including electronic and electrical theory, computer hardware principles, and broad level components related to the installation, diagnosis, service, and repair of computer systems

Fundamentals of Networking Technologies: INTW 1425: 2950 Semesters: 1 Credits: .5 Grade:10 College Credit:3
Prerequisite: Principles of Information Technology

Introduction to the fundamentals, basic concepts, and terminology of networks. Topics include the access and use of the Internet and networking hardware and software, including current developments in networking.

Personal Computer Hardware: ITSC 1425: 3549 Semesters: 1 Credits: .5 Grade: 11 College Credit: 3
Prerequisite: Principles of Information Technology
Introduction to Computers: ITSC 1301
Fundamentals of Networking Technologies: INTW 1425

Students acquire principles of computer maintenance, including electronic and electrical theory, computer hardware principles, and broad level components related to the installation, diagnosis, service, and repair of computer systems. Current personal computer hardware including assembly, upgrading, setup, configuration, and troubleshooting. **MUST BE TAKEN CONCURRENTLY WITH ITSC 1307.**

UNIX Operating System I: ITSC 1307:3550 Semesters: 1 Credits: .5 Grade: 11 College Credit: 3
Prerequisite: Principles of Information Technology
Introduction to Computers: ITSC 1301
Fundamentals of Networking Technologies: INTW 1425

A study of the UNIX operating system including multi-user concepts, terminal emulation, use of system editors, and basic UNIX commands. Topics include introductory systems management concepts. **MUST BE TAKEN CONCURRENTLY WITH ITSC 1425.**

Computer Programming I (SWIFT) ITSE 1402: 3551 Semesters: 1 Credits: .5 Grade: 11 College Credit:3
Prerequisite: Principles of Information Technology
Introduction to Computers: ITSC 1301
Fundamentals of Networking Technologies: INTW 1425

Computer Programming I Introduces the fundamental concepts of structured programming. Topics include software development methodology, data types, control structures, functions, arrays, and the mechanics of running, testing, and debugging. **MUST BE TAKEN CONCURRENTLY WITH ITNW 1313.**

Computer Virtualization ITNW 1313: 3552 Semesters: 1 Credits: .5 Grade: 11 College Credit: 3
Prerequisite: Principles of Information Technology
Introduction to Computers: ITSC 1301
Fundamentals of Networking Technologies: INTW 1425

In Computer Virtualization students will be implementing and supporting virtualized environments for clients and servers in a networked computer environment. We will install, configure, and manage virtualized computer workstations and servers. **MUST BE TAKEN CONCURRENTLY WITH ITSE 1402.**

Information Technology Security: ITSY 1342: 4093 Semesters: 1 Credits: .5 Grade: 12 College Credit: 3
Prerequisites: Principles of Information Technology
Introduction to Computers ITSC 1301
Fundamentals of Networking Technologies ITNW 1425
Personal Computer Hardware ITSC 1425
UNIX Operating System I ITSC 1307
Computer Programming (Swift I) ITSE 1402
Computer Virtualization ITNW 1313

Information security means protecting information and information systems from unauthorized access, use, disclosure, disruption, modification, or destruction. The terms information security, computer security and information assurance are frequently used interchangeably. These fields are interrelated and share the common goals of protecting the

confidentiality, integrity, and availability of information; however, there are some subtle differences between them. These differences lie primarily in the approach to the subject, the methodologies used, and the areas of concentration. Information security is concerned with the confidentiality, integrity, and availability of data regardless of the form the data may take electronic, print, or other forms. **MUST BE TAKEN CONCURRENTLY WITH ITSE 1333.**

Mobile Application Development: ITSE 1333: 4096 Semesters: 1 Credits: .5 Grade: 12 College Credit:4
Prerequisites: Principles of Information Technology
Introduction to Computers ITSC 1301
Fundamentals of Networking Technologies ITNW 1425
Personal Computer Hardware ITSC 1425
UNIX Operating System I ITSC 1307
Computer Programming (Swift I) ITSE 1402
Computer Virtualization ITNW 1313

This course gives an overview of different mobile platforms and their development environments. It introduces iOS app design and development with the Swift programming language. Topics include Swift language features used in app development, object-oriented programming concepts, and building and debugging Swift applications. **MUST BE TAKEN CONCURRENTLY WITH ITSY 1342.**

Windows Client Operating System: ITMT 1358: 4094 Semesters: 1 Credits: .5 Grade: 12 College Credit: 3
Prerequisites: Principles of Information Technology
Introduction to Computers ITSC 1301
Fundamentals of Networking Technologies ITNW 1425
Personal Computer Hardware ITSC 1425
UNIX Operating System I ITSC 1307
Computer Programming (Swift I) ITSE 1402
Computer Virtualization ITNW 1313

In the ITMT 1358 course, students will learn about the fundamental and essential concepts of the Windows 10 client OS (operating system). Students will also get hands-on exercises on Windows 10 OS installation, configuration, and troubleshooting. Students will gain knowledge and perform the file management, user accounts and permissions, security features, and network connectivity. Also using the VMware machine, allow the students to set up external devices practice optimization, customization, and deployment of the Windows application on their copy of the Windows 10 client operating system.

IOS Application Development ITSE 2410: 4095 Semesters: 1 Credits: 1.0 Grade: 12 College Credit:4
Prerequisites: Principles of Information Technology
Introduction to Computers ITSC 1301
Fundamentals of Networking Technologies ITNW 1425
Personal Computer Hardware ITSC 1425
UNIX Operating System I ITSC 1307
Computer Programming (Swift I) ITSE 1402
Computer Virtualization ITNW 1313

The course explores developing applications for iOS devices. Will include Objective-C programming, use of the iOS SDK environment, and current programming issues in the iOS environment. ITSE 2410 is the prerequisite course for Swift Certification.



LEGAL STUDIES
PROGRAM OF STUDY
The Legal Studies program of study introduces student to the occupations and educational opportunities related to representing clients in criminal and civil litigation and other legal proceedings, as well as assisting lawyers and preparing legal documents. This program of study explores possible specializations in a single area of law.

Required Course Sequence:

Level 1: Principles of Law, Public Safety, Corrections and Security
Level 2: Dual Credit Introduction to Criminal Justice CRIJ 1301 and Dual Credit Court Systems and Practices CRIJ 1306
Level 3: Dual Credit Correctional Systems and Practices CRIJ 2313 and Dual Credit Police Systems and Practices CRIJ 2328
Level 4: Criminal Investigations, *Forensic Science is recommended to be taken at the same time
Dual Credit Fundamentals of Criminal Law CRIJ 1310
Dual Credit Crime in America CRIJ 1307

Principles of Law, Public Safety, Corrections and Security: 1961 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: None

This course provides students with an overview of the skills necessary for careers in law enforcement, fire services, security, and corrections. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services.

Student must follow HCC enrollment guidelines and procedures to enroll in Dual Credit Criminal Justice Courses.

Introduction to Criminal Justice CRIJ 1301: 2968 Semester 1 Credit .5 Grade 10 College Credit: 3
Prerequisite: Principles of Law, Public Safety, Corrections and Security

This course is designed to introduce students to the field of criminal justice, providing an overview of the issues involved in defining, measuring, and explaining crime. Students will learn about the field of criminology, examine general characteristics of crime and criminals, review early and contemporary theories which attempt to explain criminal behavior and discuss crime in the modern world. Designated as Criminal Justice Transfer Curriculum.

Court Systems and Practices CRIJ 1306: 2969 Semester 1 Credit .5 Grade 10 College Credit: 3
Prerequisite: Principles of Law, Public Safety, Corrections and Security

Court Systems and 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 interrogations. Designated as Criminal Justice Transfer Curriculum.

Correctional Systems and Practices CRIJ 2313: 3968 Semester 1 Credit .5 Grade 11 College Credit: 3
Prerequisite: Principles of Law, Public Safety, Corrections and Security
Introduction to Criminal Justice: CRIJ 1301
Court Systems and Practices: CRIJ 1306

This Course is an introduction to the Correctional System with an emphasis on the fundamentals of corrections and is combined with practical experience to help you understand the system. The objective of this course is to provide students with an overview of our past and present corrections system, the evolving way inmates have been treated, and the controversies that remain in the corrections system today. Designated as Criminal Justice Transfer Curriculum.

Police Systems and Practices CRIJ 2328: 3969 Semester 1 Credit .5 Grade 11 College Credit: 3
Prerequisite: Principles of Law, Public Safety, Corrections and Security
Introduction to Criminal Justice: CRIJ 1301
Court Systems and Practices: CRIJ 1306

Police systems and practices will cover the police profession; organization of law enforcement systems; the police role; police discretion; ethics; police-community interaction; current and future issues. Designated as Criminal Justice Transfer Curriculum.

Fundamentals of Criminal Law: CRIJ 1310: 4968 Semester 1 Credit .5 Grade 12 College Credit: 3
Prerequisites: Principles of Law, Public Safety, Corrections and Security
Introduction to Criminal Justice CRIJ 1301
Court Systems and Practices CRIJ 1306
Correctional Systems and Practices CRIJ 2313
Police Systems and Practices CRIJ 2328

The study of criminal law, its philosophical and historical development, major definitions and concepts, classifications and elements of crime, penalties using Texas statutes as illustrations, and criminal responsibility.

Crime In America: CRIJ 1307: 4969 Semester 1 Credit .5 Grade 12 College Credit: 3
Prerequisites: Principles of Law, Public Safety, Corrections and Security
Introduction to Criminal Justice CRIJ 1301
Court Systems and Practices CRIJ 1306
Correctional Systems and Practices CRIJ 2313
Police Systems and Practices CRIJ 2328

American crime problems in historical perspective, social and public policy factors affecting crime, impact and crime trends, social characteristics of specific crimes, and prevention of crime. A university transfer course for those students wanting to work and study in the field of Criminal Justice

Forensic Science: 3319/9319 Semesters: 2 Credits: 1 Grade: 11-12
Prerequisite: Biology and Chemistry
NOTE: *To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b) (2) (C) of the Texas Education Code*

This course is designed to challenge students with topics such as fingerprinting, DNA analysis, blood typing and spattering, trajectories (for ballistics as well as blood spattering) comparative anatomy, and chemical analysis of drugs, poisons, and trace evidence, and the dynamics of Physics.



WELDING
PROGRAM OF STUDY
The Welding Technology program is designed to offer students the necessary skills for entry-level positions in the welding industry. There is an increasing demand for skilled welders in the fields of SMAW (Shielded Metal Arc Welding) MIG (Metal Inert Gas), TIG (Tungsten Inert Gas), and Pipe welding.

Level I Certificate – Structural Welding Specialization awarded through Houston Community College

Required Course Sequence:

Level 1:	Principles of Manufacturing
Level 2:	Dual Credit Introduction to Welding Using Multiple Processes WLDG 1407
	Dual Credit Introduction to Shield Metal Arc Welding WLDG 1428
Level 3:	Dual Credit Introduction to Gas Metal Arc Welding WLDG 1430
	Introduction to Blueprints WLDG 1413
Level 4:	Dual Credit Intermediate Shielded Metal Arc Welding WLDG 1457
	Dual Credit Advanced Gas Metal Arc Welding WLDG 2447

Principles of Manufacturing: 1962 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: None

This course allows students to 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. Students will explore career opportunities, describe how a systems model can be used to describe manufacturing and technological activities, apply manufacturing concepts to specific problems and investigate emerging and innovative applications of technology in engineering.

Students must follow HCC enrollment guidelines and procedures to enroll in Dual Credit Welding classes.

Introduction to Welding: WLDG 1407: 2965 Semester 1 Credit 1 Grade 10 College Credit: 3
Prerequisite: Principles of Manufacturing

Basic welding processes. Includes oxy-fuel welding (OFW) and cutting, shielded metal arc welding (SMAW), gas metal arc welding (GMAW), and gas tungsten arc welding (GTAW). **This course requires two class periods.**

Shield Metal Arc Welding: WLDG 1428: 2966 Semester 1 Credit 1 Grade 10 College Credit: 3
Prerequisite: Principles of Manufacturing

An introduction to the shielded metal arc welding process. Emphasis placed on power sources, electrode selection, and various joint designs. **This course requires two class periods.**

Gas Metal Arc Welding: WLDG 1430: 3790 Semester 1 Credit 1 Grade 11 College Credit: 3
Prerequisite: Principles of Manufacturing
Introduction to Welding WLDG 1407
Shield Metal Arc Welding WLDG 1428

A study of the principles of gas metal arc welding, setup and use of Gas Metal Arc Welding (GMAW) equipment, and safe use of tools/equipment. Instruction in various joint designs. **This course requires two class periods.**

Intro to Blueprints: WLDG 1413: 3798 Semester 1 Credit 1 Grade 11 College Credit: 3
Prerequisite: Principles of Manufacturing
Introduction to Welding WLDG 1407
Shield Metal Arc Welding WLDG 1428

A study of industrial blueprints. Emphasis placed on terminology, symbols, graphic description, and welding processes. Includes systems of measurement and industry standards. Also includes interpretation of plans and drawings used by industry to facilitate field application and production. **This course requires two class periods.**

Inter. Shielded Welding: WLDG 1457: 4089 Semester 1 Credit 1 Grade 12 College Credit: 3
Prerequisite: Principles of Manufacturing
Introduction to Welding WLDG 1407
Shield Metal Arc Welding WLDG 1428
WLDG 1430
WLDG 1413

A study of the production of various fillets and groove welds. Preparation of specimens for testing in all test positions. Identify principles of arc welding; describe arc welding operations of fillet and groove joints; explain heat treatments of low alloy steels; and explain weld size and profiles. Prepare test plates; perform fillet welds in the overhead position; perform air carbon arc weld removal; perform bevel groove welds with backing plates in various positions; and demonstrate use of tools and equipment. **This course requires two class periods.**

Adv. Gas Welding – WLDG 2447: 4854 Semester 1 Credit 1 Grade 12 College Credit: 3
Prerequisite: Principles of Manufacturing
Introduction to Welding WLDG 1407
Shield Metal Arc Welding WLDG 1428
WLDG 1430
WLDG 1413

Advanced topics in Gas Metal Arc Welding (GMAW). Includes welding in various positions and directions. **This course requires two class periods.**



PROGRAM OF STUDY

The Marketing and Sales program of study teaches students how to collect information to determine potential sale of a product or service and/or create a marketing campaign to market or distribute goods and services. Through this program of study, students will learn the skills necessary to understand and apply data on customer demographics, preferences, needs and buying habits.

Required Course Sequence:

Level 1: Principles of Business Marketing and Finance
Level 2: Sports and Entertainment Marketing AND Social Media Marketing OR Advertising
Level 3: Entrepreneurship
Level 4: Advanced Marketing OR Practicum in Marketing

Principles of Business, Marketing and Finance: 1958 Semesters: 1 Credits: 0.5 Grade: 9-12
Prerequisite: None

This course allows students to gain knowledge and skills in economics, 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.

Sports and Entertainment Marketing: 2952 Semesters: 1 Credits: .5 Grade: 10-11
Prerequisite: Principles of Business, Marketing, and Finance

This course provides students with a thorough understanding of the marketing concepts and theories that apply to sports and sporting events and entertainment. Students will learn about basic marketing, target marketing and segmentation, sponsorship, event marketing, promotions, sponsorship proposals, and implementation of sports and entertainment marketing plans. This course will also provide students an opportunity to develop promotional plans, sponsorship proposals, endorsement contracts, sports and entertainment marketing plans, and evaluation and management techniques.

Social Media Marketing: 2953 Semesters: 1 Credits: .5 Grade: 10-11
Prerequisite: Principles of Business, Marketing, and Finance

Social Media Marketing is designed to look at the rise of social media and how marketers are integrating social media tools in their overall marketing strategy. The course will investigate how the marketing community measures success in the new world of social media. Students will manage a successful social media presence for an organization, understand techniques for gaining customer and consumer buy-in to achieve marketing goals, and properly select social media platforms to engage consumers and monitor and measure the results of these efforts.

Advertising: 2954 Semesters: 1 Credits: .5 Grade: 10-11
Prerequisite: Principles of Business, Marketing, and Finance

This course introduces students to the principles and practices of advertising. This course explores the social, ethical, and legal issues of advertising, historical influences, strategies, and media decision processes as well as integrated marketing communications. Students will also gain knowledge of techniques used in current advertising, including print, broadcast, and digital media.

Entrepreneurship: 3622 Semesters: 2 Credits: 1 Grade: 11-12
Prerequisite: Principles of Business, Marketing, and Finance
Sports & Entertainment Marketing or Social Media Marketing or Advertising

This course allows students to learn the principles necessary to begin and operate a business. The primary focus of this 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. Students will also learn about capital required, return on investment desired, and the potential for profit.

Advanced Marketing: 4091 Semesters: 2 Credits: 2 Grade: 12
Prerequisite: Principles of Business, Marketing, and Finance
Sports & Entertainment Marketing or Social Media Marketing or Advertising
Entrepreneurship

This course provides students with the opportunity to gain knowledge and skills to help them be proficient in one or more of the marketing functional areas associated with distribution, financing, marketing information management, pricing, product planning, promotion, purchasing, risk management, and selling skills. **This course requires two class periods.**

Practicum Marketing Dynamics: 4092 Semesters: 2 Credits: 2 Grade: 12
Prerequisite: Principles of Business, Marketing, and Finance
Sports & Entertainment Marketing or Social Media Marketing or Advertising
Entrepreneurship

This course allows students to gain knowledge and skills about technology, communication, and customer-service skills. This practicum 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 expertise. **This course requires two class periods.**



AUTOMOTIVE PROGRAM OF STUDY

The Automotive program of study teaches students how to repair and refinish automobiles and service various types of vehicles. Students may learn to collect payment for services or supplies and perform typical vehicle maintenance procedures such as lubrication, oil changes, installation of antifreeze or replacement of accessories like wiper blades or tires.

Required Course Sequence:

Level 1: Principles of Transportation Systems
Level 2: Dual Credit Introduction to Automotive Technology AUMT 1305
Dual Credit Automotive Electrical Systems AUMT 1307
Level 3: Dual Credit Automotive Brake Systems AUMT 1310
Dual Credit Automotive Suspension and Steering Systems AUMT 1316
Dual Credit Climate Control Systems AUMT 1345
Dual Credit Automotive Engine Performance Analysis I AUMT 2317
Level 4: Dual Credit Automotive Service Consultant AUMT 2310
Dual Credit Automotive Service AUMT 2328
Dual Credit Automotive Mechanics Technology Technician (Capstone) AUMT 1380

Principles of Transportation Systems: 1966 Semesters: 2 Credits: 1 Grade: 9-12
Prerequisite: None

In Principles of Transportation Systems, students will gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This knowledge includes the history, laws and regulations, and common practices used in the transportation industry. Students should apply knowledge and skills in the application, design, and production of technology as it relates to the transportation industries. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings.

Student must follow HCC enrollment guidelines and procedures to enroll in Dual Credit Automotive Classes.

Intro to Auto Technology AUMT 1305: 2680 Semester: 1 Credit: .5 Grade: 10 College Credit :3
Prerequisite: Principles of Transportation Systems

An introduction to the automotive industry including automotive history, safety practices, shop equipment and tools, vehicle subsystems, service publications, fasteners, professional responsibilities, and automotive maintenance. May be taught manufacturer specific.

Intro to Auto Elec Systems AUMT 1307: 2681 Semester: 1 Credit: .5 Grade: 10 College Credit :3
Prerequisite: Principles of Transportation Systems

An overview of automotive electrical systems including topics in operational theory, testing, diagnosis, and repair of, charging and starting systems, and electrical accessories. Emphasis on electrical principles schematic diagrams, and service manuals. May be taught manufacturer specific.

Auto Brake Systems AUMT 1310: 3979 Semester: 1 Credit: .5 Grade: 10 College Credit :3
Prerequisites: Introduction to Automotive Technologies AUMT 1305
Automotive Electrical Systems AUMT 1307

Operation and repair of drum/disc type brake systems. Emphasis on safe use of modern equipment. Topics include brake theory, diagnosis, and repair of power, manual, anti-lock brake systems, and parking brakes. **MUST BE TAKEN CONCURRENTLY WITH AUMT 1316.**

Auto Suspension and Steering Sys AUMT 1316: 3980 Semester: 1 Credit: .5 Grade: 11 College Credit :3
Prerequisites: Introduction to Automotive Technologies AUMT 1305
Automotive Electrical Systems AUMT 1307

A study of automotive suspension and steering systems, including tire and wheel problem diagnosis, component repair, and alignment procedures. **MUST BE TAKEN CONCURRENTLY WITH AUMT 1310.**

Auto Climate Control Sys AUMT 1345: 3981 Semester: 1 Credit: .5 Grade: 11 College Credit :3
Prerequisites: Introduction to Automotive Technologies AUMT 1305
Automotive Electrical Systems AUMT 1307

The ownership and the profession of automobile repair is being impacted by electrical/electronics more and more every day. Both as an owner and a technician one must become more proficient in these areas. This course is a major step along the journey to competency in the realm of automotive electrical and electronic systems. **MUST BE TAKEN CONCURRENTLY WITH AUMT 2317.**

Auto Engine Perf Analysis I AUMT 2317: 3982 Semester: 1 Credit: .5 Grade: 11 College Credit :3
Prerequisites: Introduction to Automotive Technologies AUMT 1305
Automotive Electrical Systems AUMT 1307

This course will cover the theory, operation, diagnosis of drivability concerns, and repair of ignition, and fuel delivery systems. Use of current engine performance diagnostic equipment. **MUST BE TAKEN CONCURRENTLY WITH AUMT 1345.**

Automotive Service Consultant: AUMT 2310: 4970 Semester: 1 Credit: .5 Grade: 12: College Credit :3
Prerequisites: Introduction to Automotive Technologies AUMT 1305
Automotive Electrical Systems AUMT 1307
Automotive Brake Systems AUMT 1310
Automotive Climate Control Systems AUMT 1345
Automotive Engine Performance Analysis I AUMT 2317

The course will cover Automotive service consulting skills and procedures. Includes vehicle identification, product knowledge, shop operations, warranty service contracts, communications, customer relations, internal relations, and sales skills. Emphasizes courtesy, professionalism, and communication.

Automotive Service: AUMT 2328: 4971 Semester: 1 Credit: .5 Grade: 12: College Credit :3

Prerequisites: Introduction to Automotive Technologies AUMT 1305
Automotive Electrical Systems AUMT 1307
Automotive Brake Systems AUMT 1310
Automotive Climate Control Systems AUMT 1345
Automotive Engine Performance Analysis I AUMT 2317

The Course will cover Mastery of automotive vehicle service and component systems repair. Emphasis on mastering current automotive competencies covered in related courses. May be taught manufacturer specific.

Automotive Mechanics Technology Technician (Capstone): AUMT 1380: 4972 Semester: 1 Credit: .5 Grade: 12: College Credit :3

Prerequisites: Introduction to Automotive Technologies AUMT 1305
Automotive Electrical Systems AUMT 1307
Automotive Brake Systems AUMT 1310
Automotive Climate Control Systems AUMT 1345
Automotive Engine Performance Analysis I AUMT 2317
Director Approval Only

Career-related activities encountered in the student's area of specialization are offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component.