



EAGLE MOUNTAIN SAGINAW ISD 2023-2024 HIGH SCHOOL COURSE DESCRIPTION HANDBOOK



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EAGLE MOUNTAIN SAGINAW ISD

Fostering a Culture of Excellence

Dear EMS ISD Students and Parents:

We are proud to present the 2023-20234 Academic Course Planning Guide which includes graduation requirements, course descriptions, and other general information you may need to make informed decisions about your education career in EMS ISD.

The mission of Eagle Mountain-Saginaw Independent School District is to foster a **culture of excellence that instills a passion for a lifetime of continuous achievement in every student**. Creating a successful future for every student in our district is a result of the combined efforts of students, school personnel, and parents. Through the course selection process, you have the opportunity to create your own pathway of success by carefully selecting your classes since these choices will be a foundation for your future.

In EMS ISD, we recognize that every student is a unique individual with unique potential, and we encourage you to consider your own personal likes as well as your strengths and aspirations when choosing courses. We also encourage you to challenge yourself so as to best prepare for continued success as you move into a college environment in the near future. All students should consider taking advanced coursework including Advanced/AP classes, dual credit, OnRamps, and advanced certification eligible CTE courses. Course choices also should include consideration of the many career and technology classes and co-curricular courses including athletics and fine arts. With careful planning, students may graduate as an AP scholar or with an industry-recognized certification. Please review your options carefully, discuss these options with your parents, and ask questions of our counselors.

With strong academics as our focus, we understand that the best-prepared students are those who also are actively involved in their schools and community. Therefore, we encourage you to balance class loads as well as become involved in extra-curricular opportunities as an important component in your personal development in high school. Our goal is for all students to have a meaningful educational experience throughout their time in EMS ISD that inspires life-long learning and prepares them for future success in their chosen paths beyond graduation. Please contact your school counselor or a school administrator if you have any questions in the course selection process.

I wish you success in your planning efforts.

Sincerely,

Jim F. Chadwell, Ed.D.

Superintendent

Eagle Mountain–Saginaw Independent School District

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MISSION STATEMENT

The mission of Eagle Mountain-Saginaw Independent School District is to foster a **culture of excellence** that instills a **passion** for a **lifetime of continuous achievement** in **every student**.

Public Notification of Nondiscrimination in Education for All Children with Disabilities

Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) requires that Eagle Mountain-Saginaw Independent School District not discriminate on the basis of handicap in any district program or activity. The district will identify, evaluate and provide an appropriate public education to students who are handicapped under Section 504, including homeless children.

La Sección 504 de la Ley de Rehabilitación, de 1973, y la Ley de Americanos con Impedimentos (ADA) requieren que el DISTRITO ESCOLAR INDEPENDIENTE de EAGLE MOUNTAIN-SAGINAW no discrimine basándose en impedimentos, en ningún programa o actividad del distrito. El distrito identificará, evaluará y ofrecerá una educación pública adecuada a los estudiantes con impedimento, de acuerdo con la Sección 504, incluyendo a los niños sin hogar.

It is the policy of Eagle Mountain-Saginaw ISD not to discriminate on the basis of race, color, national origin, sex or handicap, in its Career and Technical (vocational) programs, services or activities as required by Title VI of the civil rights act of 1964, as amended: Title IX of the education amendments of 1972: and section 504 of the rehabilitation act of 1973, as amended.

GENERAL INFORMATION

ADVANCED ACADEMICS PROGRAM

Texas believes a strong education is the foundation to our children's future. According to the Texas Education Agency, it is vital that our students have every opportunity to excel academically through rigorous and challenging courses. Colleges recognize the role a rigorous high school curriculum plays in preparing students for college success. Accordingly, the National Association for College Admission Counseling's survey of college admissions officers showed **the most important factor** in college admissions is student success in the most challenging high school courses available.

ADVANCED PLACEMENT

Courses offered through the College Board's Advanced Placement Program enable Texas students to pursue college level coursework while still in high school. Based on AP Exam performance, students can gain college admission, earn scholarship awards, earn credit toward a college degree, skip introductory college classes, enter higher-level classes, and/or fulfill general college educational requirements, depending on the college or university.

Eagle Mountain-Saginaw ISD supports the College Board's commitment to the principle that all students who are willing to accept the challenge of a rigorous coursework provided through a college-level curriculum deserve an opportunity to participate in AP courses. Our high schools offer a variety of Advanced Placement Courses. Advanced and AP classes require extra time on the part of students for class preparation, outside reading and/or labs, and completion of assignments. Also, it is the expectation that students who take AP Classes will take AP exams. (Note: Some colleges and universities will not attach value to a high school course labeled AP unless an AP Exam grade is also presented for that course.) Complete course descriptions and practice exam questions can be accessed on the College Board website.

Eagle Mountain-Saginaw ISD offers the following AP courses:

English Language & Composition	Biology	United States History	Spanish Language	Computer Science A
English Literature & Composition	Chemistry	United States Government & Politics	Spanish Literature	Computer Science Principles
Capstone Seminar	Physics 1	Macroeconomics	Art – Studio Art	
Capstone Research	Physics 2	European History	Art – 2-D Design	
Calculus AB	Environmental Science	Psychology	Art – 3-D Design	
Calculus BC	Human Geography	French Language	Art History	
Statistics	World History	German Language	Music Theory	

ADVANCED COURSES

Academic courses that lead to Advanced Placement (AP) courses are referred to as Advanced courses. Advanced courses can be taken in grades 6-12. Advanced courses cover curriculum with greater depth and complexity. They require additional studies outside of the classroom as well as effective time management skills. Emphasis is given to the skills and strategies students need to succeed in Advanced Placement courses and post-secondary education. Advanced courses are offered in English, mathematics, science, social studies, and other selected courses.

GIFTED AND TALENTED

The EMS ISD Gifted and Talented Program (G/T) is designed to meet the needs of identified gifted students who have demonstrated above-average ability in the following two areas of giftedness as defined by the Texas State Plan for the Gifted: 1) high general-intellectual ability; and 2) creative and productive thinking. In Eagle Mountain-Saginaw ISD, secondary G/T students are served through Advanced and AP classes. As per the Texas State Plan for the Gifted and Talented, our G/T students have regular opportunities to work with their peers and have differentiated instruction to increase the depth and complexity of the curriculum within the Advanced and AP classes. We accomplish this through clustering (defined as 5 or more G/T students in a class). This strategy allows our students to benefit from both heterogeneous and homogeneous grouping methods. G/T cluster classes are not exclusively for G/T students and are not comprised of all G/T students. Teachers assigned to G/T cluster classes have G/T training including the 30-hour initial G/T training, 6-hour annual G/T training updates, as well as district training opportunities with other G/T teachers.

G/T students must enroll in at least one Advanced or AP course each year through middle and high school. If the student decides not to take at least one Advanced or AP course, then the student must enter furlough or exit from the program.

Although EMS ISD identifies general academic giftedness, students have particular areas of strengths and interests. As students move into middle school and high school, it is important to realize that this is the appropriate time to specialize in specific courses and hone strengths. Our goal is to help our students explore learning opportunities in a variety of subjects and experiences as they journey through Eagle Mountain-Saginaw ISD.

CONCURRENT ENROLLMENT

Concurrent enrollment refers to a circumstance in which a high school student is enrolled in both high school and a college/university at the same time. A student must be accepted by the college/university to begin their concurrent enrollment and receive administrator approval from their high school. Only courses listed in this guide as Dual Credit will be awarded both high school and college credit. Contact your campus counseling department for additional information.

DUAL CREDIT

A student may enroll in academic and/or technical courses for college credit before they graduate from high school. Students receive both high school and college credit upon successful completion of these courses. Grades earned will be used in calculating grade point averages and class rank. Please see Dual Credit Handbook for grading policies. To qualify, a student must:

- Obtain permission from the high school.
- Enroll at the college/university offering the course(s).
- Meet the entrance requirements of the college/university including the required placement exams.

Dual Credit Opportunities with Tarrant County College:

HIGH SCHOOL COURSE EQUIVALENT	TCC Course Number	COLLEGE HOURS	COURSE SITE
English III & IV	ENGL 1301, 1302 LIT 2327, 2323	6 6	EMS Campus, TCC Campus, Virtual
United States History	HIST 1301 & 1302	6	EMS Campus, TCC Campus, Virtual
United States Government	GOVT 2305	3	EMS Campus, TCC Campus, Virtual
Principles of Economics	ECON 2301	3	EMS Campus, TCC Campus, Virtual
Professional Communications	SPCH 1311	3	TCC Campus or Virtual
Algebra II	MATH 1314	3	TCC Campus or Virtual
Independent Study in Math	MATH 1324	3	TCC Campus or Virtual
Psychology	PSYC 2301	3	TCC Campus or Virtual
Sociology	SOCI 1301	3	TCC Campus or Virtual
American Sign Language I	SLNG 1401	4	TCC Campus or Virtual
American Sign Language II	SLNG 1402	4	TCC Campus or Virtual
Spanish III	SPAN 2311	3	TCC Campus or Virtual
Introduction to Aircraft Technology and Aircraft Airframe Technology	Fall: AERM 1315, 1205 Spring: AERM 1310, 1208	5 5	TCC Alliance Campus
Practicum TDL-Aircraft Technology/Aircraft Mechanic	Fall: AERM 1314 Spring: AERM 1303	3 3	TCC Alliance Campus
Fire Protection Technology 1	Fall: FIRT 1301, 1309 Spring: FIRT 1311, 1371	6 6	TCC Northwest Campus or Virtual
Greenhouse Operations/Agricultural Lab and Field Experience	Fall: HALT 1301 Spring: AGCR 2418	3 4	TCC Northwest Campus
Horticulture/Advanced Plant and Soil Science	Fall: HALT 2308 Spring: HALT 2323	3 3	TCC Northwest Campus

CTE Dual Credit Options Offered at HCTC

The following dual credit classes will be held at Hollenstein Career and Technology Center and taught by HCTC instructors that are fully credentialed through TCC. Students taking a course on the HCTC campus will not pay tuition for the course. Upon successful completion of the course, students will receive college credit through TCC and high school credit through EMS ISD.

High School Course Equivalent	High School Credit Earned	TCC Course Number	College Hours
Automotive Technology 1	1 (Fall Semester)	AUMT 1405	4
	1 (Spring Semester)	AUMT 1410	4
Automotive Technology 2	1 (Fall Semester)	AUMT 1407	4
	1 (Spring Semester)	AUMT 2417	4
Welding 1	1 (Fall Semester)	WLDG 1428	4
	1 (Spring Semester)	WLDG 1430	4
Welding 2	1 (Fall Semester)	WLDG 1312	3
	1 (Spring Semester)	WLDG 1434	4
Computer Maintenance and Lab	1 (Fall Semester)	CPMT 1403	4
	1 (Spring Semester)	ITNW 1309	3
Networking and Security and Lab	1 (Fall Semester)	ITNW 1425	4
	1 (Spring Semester)	ITSY 1300	3
Culinary Arts	1 (Fall Semester)	CHEF 1301	3
	1 (Spring Semester)	CHEF 1305	3
Advanced Culinary Arts	1 (Fall Semester)	HAMG 2301	3
	1 (Spring Semester)		0

ONRAMPS

OnRamps is a dual enrollment program that is aligned with the high standards and expectations of The University of Texas at Austin. Credit from UT is earned through the University Extension (UEX) within the TEXAS Extended Campus. OnRamps courses do not require admission to the University of Texas even though they are aligned with courses taught to UT Austin's residential students. A university faculty member serves as the Instructor of Record and evaluates student's progress in each college course.

**Students assigned to ADC will no longer be able to participate either in Dual Credit or OnRamps courses. These courses are only offered at the home campuses and/or HCTC.*

EMS ISD OnRamps Opportunities:

HIGH SCHOOL COURSE EQUIVALENT	COLLEGE COURSE(S)	COLLEGE CREDIT
OnRamps College Algebra	Math 1314	3
OnRamps Pre-Calculus	Math 2312	3
OnRamps Chemistry I	CHEM 1311 + CHEM 1111	4
OnRamps Chemistry II	CHEM 1312 + CHEM 1112	4

CAREER AND TECHNICAL EDUCATION (CTE)

The Eagle Mountain Saginaw ISD Career and Technical Education Program provides learning opportunities that incorporate rigorous academic study with an emphasis on career preparation through applied learning. It is our goal to develop students who are lifelong learners prepared to attain maximum potential in post-secondary education while being able to successfully enter a desired career field. The primary purpose of the CTE Program is to ensure that each student will develop his or her full potential for continued learning, career success, and productive citizenship.

**Students assigned to ADC may not be able to participate in CTE courses held at HCTC. These courses are only offered at HCTC.*

EXITING AN ADVANCED/AP COURSE

Advanced/AP schedule change requests after the yearly designated add/drop date are subject to the following process:

- Change requests for exiting of Advanced/AP courses will not be considered before the 10th instructional day of the course to allow students time to work with the teacher and adjust to curriculum requirements.
- Requests to exit an Advanced/AP course will be considered between the end of the first 10 instructional days and the end of the 1st six weeks of a course. Requests for second semester changes will be considered at the end of the first semester. A student must turn in a request providing a valid explanation for the schedule change request to his/her counselor. The request must be approved by a parent/guardian.
- Before enacting the process to exit, the reason for the schedule change, in conjunction with the student's past academic history, absences, and use of tutorials and interventions will be reviewed.
- A conference including the student, teacher, counselor, administrator or designee, and parent will be held once the written request is received and reviewed. Options to be discussed at the conference include:
 - developing a plan for the improvement of the student's performance that includes alternative instructional strategies, student attendance, student effort, student utilization of tutorials and other interventions, and specific target dates for progress reports to student and parent.

or

- exiting the student from the course and placing the student in another appropriate course if the student's past academic history and the committee assessment indicate the student does not have the skills to be successful in the course and the student was inappropriately placed in the course.

Unacceptable reasons for requesting a schedule change from an Advanced/AP course include but are not limited to:

- Student wants a different teacher.
- Student wants a different lunch.
- Student wants to be with friends.
- Student wants to change a class because he/she does not want to do the class work or has not completed the reading/required work.
- Student signed up for the class because he/she wanted to but now wants out of the class since he/she doesn't need the class in order to graduate.
- Student is not making an A or B in the course.
- Student is concerned about GPA.

AUTOMATIC COLLEGE ADMISSION (TOP 10% RULE)

In accordance with Texas Education Code (TEC), §51.803, a student is eligible for automatic admission to a college or university as an undergraduate student if the applicant earned a grade point average in the **top 10 percent** of the student's high school graduating class, or the **top 6 percent** of eligible summer/fall freshman applicants for admission to the University of Texas at Austin, and the applicant:

- 1) Successfully completed the requirements for the EMS ISD Distinguished Level of Achievement; or
- 2) Satisfied ACT's College Readiness Benchmarks on the ACT assessment or scores on the SAT (TBD by the state).

In accordance with Title 19 Texas Administrative Code (TAC), §5.5(e), high school rank for students seeking automatic admission to a general academic teaching institution on the basis of class rank is determined and reported as follows.

- 1) Class rank shall be based on the end of the 11th grade, middle of the 12th grade, or at high school graduation, whichever is most recent at the application deadline.
- 2) The top 10 percent of a high school class shall not contain more than 10 percent of the total class size.
- 3) The student's rank shall be reported by the applicant's high school or school district as a specific number out of a specific number total class size.
- 4) Class rank shall be determined by the school or school district from which the student graduated or is expected to graduate.

To qualify for automatic admission an applicant must:

- 1) Submit an application before the deadline established by the college or university to which the student seeks admission; and
- 2) Provide a high school transcript or diploma that indicates whether the student has satisfied or is on schedule to satisfy the requirements of the EMS ISD Distinguished Level of Achievement plan that was available to them.

Colleges and universities are required to admit an applicant for admission as an undergraduate student if the applicant is the child of a public servant who was killed or sustained a fatal injury in the line of duty and meets the minimum requirements, if any, established by the governing board of the college or university for high school or prior college-level grade point average and performance on standardized tests.

CLASS RANK AND GPA

The following class ranking requirements apply to students who enter grade 9 beginning in the 2013–14 school year

- The District shall include in the calculation of class rank grades earned in all high school credit courses regardless of when the credit was earned, unless excluded below.
- The calculation of class rank shall exclude grades earned in or by a local credit course, physical education credits awarded by alternative sources (Off Campus PE), or courses taken as Pass/Fail, credit recovery through district online platform, Summer School courses, transfer credits from non-accredited or out of country schools or acceleration through AP exam.
- Eligible **AP courses** designated in the course description handbook shall be categorized as Level 3 courses and **will receive ten extra points** toward GPA.
- Eligible **Advanced courses, OnRamps, and dual credit courses** designated in the course description handbook shall be categorized and weighted as Level 2 courses and will receive **five extra points** toward GPA.
- All other eligible courses shall be categorized as Level 1 and will receive no extra points toward GPA.
- Repeated courses with prior credit granted will not be included in the student's GPA but will be graded as Pass/Fail.
- All grades for Spring semester of the 2019-2020 school year will be entered as a Pass/Fail and will not be calculated into GPA due to COVID.

CLASSIFICATION CREDIT

Students are classified according to the number of credits they have earned at the beginning of the school year.

Freshman	Promotion from 8th grade
Sophomore	5.5 to 11.5 credits
Junior	12 to 18.5 credits
Senior	19 plus credits

COLLEGE EXAMINATIONS

Since college entrance exams are required at many colleges and universities, the student planning to go to college is encouraged to take the following tests. We recommend English III and Algebra II be completed before taking any college entrance exam. Students should contact their college of choice regarding required placement and entrance exams.

1. **National Merit Scholarship Qualifying Test (PSAT-NMSQT):** This test is designed to aid Sophomores and Juniors in estimating their ability to do college level work and to guide them in making college plans. It is sometimes used by industries and universities for scholarship purposes. National Merit Scholarship recipients are determined from the scores acquired from the PSAT taken during their junior year.
2. **ACT and/or SAT:** The ACT and/or SAT exams are a system of testing prospective college students for the purpose of admission and counseling. The student should find out which test is required or preferred by the institution. These tests are administered at high schools several times during the year. Each of these tests has a required fee that must be paid at the time of registration. Registration information is available online at www.collegeboard.com or www.act.org.
3. **Texas Success Initiative (TSIA2):** Students attending Texas public institutions of higher education must be in compliance with the Texas Success Initiative (TSI) as of fall 2003 (Texas Education Code §51.3062) in order to enroll in public institutions of higher education. The law requires all entering college students to be assessed for college readiness in reading, mathematics and writing unless the student qualifies for an exemption. Each student who fails to meet the minimum passing standard of the exam offered by the institution must be placed in a developmental education program designed to help the student achieve college readiness.

OTHER TESTING

STAAR

The State of Texas Assessments of Academic Readiness (STAAR™) is for students entering high school first year freshman and after. STAAR™ includes 5 end-of-course (EOC) course assessments: Algebra I, English I, English II, Biology, and U.S. History. In order to graduate, students must pass all 5 exams. Please visit the district Testing and Title webpage at for exam dates.

Advanced Placement Examinations (AP)

These exams provide students with the opportunity to gain college credit by examination at participating universities. Information regarding the awarding of credit can be found on www.collegeboard.com.

ASVAB

The Armed Services Vocational Aptitude Battery is available to students in grades 10-12. It measures aptitudes and abilities and relates them to specific occupations in civilian and military life.

ADDITIONAL COURSE CREDIT OPTIONS

Credit by Exam for Acceleration

Prior approval to take a credit by exam must be obtained through the counseling office. A student may earn credit for certain courses in which they have had no prior instruction by scoring a grade of 80 or above on an examination for acceleration and meeting other eligibility requirements. Testing fees may apply. See your counselor for further information on requirements and procedures. A Credit by Exam for Acceleration score report will be entered into the student's grade history and will be used in determining GPA as stated in Board Policy. For more information, please see our district Testing and Title webpage.

Acceleration through Advanced Placement Testing occurs when a student takes an AP test without prior instruction. Credit is earned if a student scores a 3 or higher on a Board approved AP test that is offered in EMS ISD. The student receives a P indicating a pass on their grade history. This is not calculated into their GPA. This Pass/Fail option does not count toward the 4-credit limit.

Credit by Exam for Credit Recovery

Prior approval to take a credit by exam must be obtained through the counseling office. For courses where credit was denied because of grade or excessive absences, a student may earn credit toward graduation by scoring a grade of 70 or above on the exam. A fee is charged for the testing. See your counselor for further information on requirements and procedures. The student receives a P indicating a pass on their grade history. This is not calculated into their GPA. This Pass/Fail option does not count toward the 4-credit limit.

Correspondence Courses

Prior approval to enroll in a correspondence course must be obtained through an application available in the counseling center. A student may be enrolled in only one correspondence course at a time unless special circumstances warrant with principal approval. See your counselor for further information and special requirements for students wishing to graduate using correspondence course work. All correspondence courses will be added to transcript with the number grade earned from the institution offering the course.

Maximum Allowable Courses

Students are limited to no more than 7 courses per day during the school year. Correspondence courses, online courses, and any other courses taken outside of the school day will not be included in the 7-course limit.

Credit Recovery (CAPTURE)

Online courses, including CAPTURE, do not fulfill the NCAA core course requirements. CAPTURE is offered as a class during the school day to assist students in successfully completing courses they have taken previously and have not passed. CAPTURE utilizes a self-paced, computer-generated curriculum and requires self-discipline and self-motivation. The ability to enroll in CAPTURE is a privilege, not a right, and should be treated as such. Students will receive a Pass/Fail for any credit earned in CAPTURE. This Pass/Fail option does not count toward the 4-credit limit.

TEXAS VIRTUAL SCHOOL NETWORK

Students attending Eagle Mountain-Saginaw ISD have the option to enroll in a course(s) offered through the state virtual school network under Chapter 30A. See your counselor for courses offered, the enrollment process, and associated course fees.

EARLY GRADUATION

Early graduation may be granted by the principal/principal's designee upon recommendation of the high school counselors. An Early Graduation Agreement must be signed and filed **prior to the beginning of the third year for three-year graduates and prior to the beginning of the senior year for mid-term graduates.** Students planning to graduate in three years will only be promoted to the next grade level upon completion of the early graduation application process and accumulation of a minimum of 19 credits. Students who wish to graduate early must complete all graduation requirements.

GRADE REPORTING

A student must be present 90% of the days in each class during a semester. Numerical scores are used to report grades and a minimum grade average of 70 is required for receiving credit.

EOC GRADUATION REQUIREMENTS

For students entering high school in 2011-2012 and after, the State of Texas Assessments of Academic Readiness (STAAR™) have replaced the Texas Assessment of Knowledge and Skills (TAKS). STAAR™ includes 5 end-of-course (EOC) course assessments. Only those senior students who have completed all requirements for graduation may participate in the graduation exercise. Senate Bill 673 from the 80th Texas Legislature ensures that students who receive special education services but who have not yet completed the requirements of their IEPs have the opportunity to participate in a graduation ceremony upon completion of four years of high school.

LOCAL CREDITS

Some courses offered are not among the state approved courses and will receive local credit. Local credits do not count as credit toward graduation or student GPA calculation.

RELEASE

To be able to have a release a student must be classified as a senior at the beginning of the school year, have successfully completed all EOC assessments, and meet at least one of the following requirements:

- Taking at least 1 AP course is one release (2 or more AP courses is two releases)
- Taking at least 1 dual credit course is 1 release (2 or more dual credit courses 2 releases)
- Be enrolled in a course that leads to a certification or license
- Principal discretion on extenuating circumstances
- Providing a large portion of family income
- Specialized conditions outside of school
- Students in athletics that complete their final season will receive a release as soon as the season is over, provided they do not already have two releases. They will receive no credit for the class when they exit.

(Maximum of two releases. Release must be first period or last two periods of the day.)

PARENT AND STUDENT INFORMATION REGARDING THE SCHEDULE CHANGE PROCESS

Master schedules are developed in the spring prior to the upcoming year. Student course selections indicate how many teachers and sections will be needed for a course. The process allows administrators to plan and to hire for optimum academic strength. When students are permitted to randomly change schedules, classes become overcrowded. Very seldom does a change affect only one course. Careful selections benefit everyone. Thank you for being a crucial part of our educational team as we work together for academic excellence.

Course Selection

- Parent and student informational meetings will be held during course selection.
- Students will be guided through the course selection process.
- Students who do not complete the course selection process will have courses selected for them by their counselor according to their academic needs and graduation plan.

Add/Drop Date

- Check with your High School Counselor for the schedule change add/drop window in May.
- Only schedule changes pertaining to graduation plans, level changes and/or computer errors will be addressed during the following school year.

PASS/FAIL OPTION

Beginning with the 2018-19 Freshman, Sophomore, and Junior classes the following options apply.

By requesting a course under the Pass/Fail option:

- I understand Pass/Fail request forms are due to the counseling office no later than the 10th day of the first semester of the course.
- Once Pass/Fail has been declared, I understand I will not be able to return to the standard GPA format for that class after the above-mentioned deadline has passed.
- I understand that I must be committed to doing a good job in the class.
- I understand that all Pass/Fail students will be subject to a three-week review to determine if class performance expectations have been met.
- I understand that the school has the right to remove me from the class at any time if I do not do the assigned work and that such removal may result in a loss of credit.
- I understand that if I am removed from a Pass/Fail class for noncompliance of the above items, I forfeit the right to enroll in a course as Pass/Fail in the future.
- I understand there may be instances when choosing Pass/Fail may not be the best option. I will consult with my Counselor before making my decision.
- I understand that I may only schedule 2 Pass/Fail courses per semester.
- I understand that core content or any course that is required under any of the three graduation plans (Foundation, Foundation with Endorsements, or Distinguished Level of Achievement) cannot be taken as a Pass/Fail option. However, any core content or required course taken beyond the required amount may be eligible for pass/fail.
- I understand that no more than a total of 4 credits may be taken on a Pass/Fail basis.
- The following Pass/Fail options do not count toward the 4-credit limit: Off Campus PE, PE embedded within Band or Dance, Acceleration through Advanced Placement test, credit recovery, summer school for advancement, transfer credits, or local credits

PREREQUISITES

In accordance with TEC Chapter 74 Subchapter G, students may not be enrolled in a course that has a required prerequisite unless the student has successfully completed the prerequisite course(s) or a person with knowledge (teacher/administrator/counselor) of the student decides the student is able to take selected course.

TRANSFER STUDENTS

Out of state transfer students must complete all state graduation requirements to be eligible for a Texas (Eagle Mountain-Saginaw ISD) diploma. Students entering from another state or state accredited private school where grades are awarded in letter form rather than numerical form shall have them interpreted for ranking and other purposes as shown on the chart below, unless the school from which the student transferred provides documentation of the numerical equivalent for each letter grade awarded.

Courses transferred for credit shall be transferred as "regular" courses in determining grade points. In order for the transferred course to be accepted as a basic or advanced level course for class ranking purposes, the course must be clearly identified as such on the transcript or confirmed as the equivalent of a basic or advanced-level course by the sending school to the high school counselor. Students moving into the district may receive advanced ranking points for courses transferred only if those courses are currently receiving advanced ranking points at the district high schools.

The following scale shall be used to convert grades of students transferring into the district with letter grades when a conversion is not provided by the previous school or district:

A+	=	99		C+	=	79	F = 65
A	=	95		C	=	75	
A-	=	92		C-	=	73	
B+	=	89		D+	=	72	
B	=	85		D	=	71	
B-	=	82		D-	=	70	

TRANSFER CREDIT

Incoming transfer credits toward graduation will be accepted from accredited public schools, state accredited home school organizations and from private or parochial schools accredited by an association recognized by the Texas Commissioner of Education. Grades will be validated numerically on student transcripts.

The District shall validate courses for transfer students from non-accredited, public, private, home, parochial schools, or foreign schools by testing or other evidence that all TEKS are met. Validated courses will be awarded pass/fail credit on student transcripts. Placement for incoming students can be determined by using district approved assessments or a committee review process. Arrangements for these exams are scheduled by the student after they have enrolled in an EMS ISD school. The numerical grade earned on an exam will be recorded on the transcript. To earn credit a student must receive a minimum exam score of 70 or greater.

PHYSICAL EDUCATION CREDITS/SUBSTITUTIONS

One unit of P.E. is required of all students for graduation. The following activities may be used to substitute for the one unit of required PE: drill team, marching band, cheerleading, athletics and off-campus physical education. Specific credit information regarding athletics, physical Education, CTE and fine arts credits and substitutions is addressed below:

ATHLETICS:

Students in athletics may receive up to 4 state physical education substitution credits.

CHEERLEADING:

- Cheerleaders enrolled in a cheer class may be awarded 1 credit of athletics (gymnastics) per year (.5 per semester) up to 4 physical education credits.
- Cheerleaders not in the cheer class may be awarded up to 1 physical education substitution credit (.5 credit awarded fall only) for extracurricular (after school) activity.

DANCE:

- Dance satisfies the state Fine Arts graduation requirement.
- Students in Dance 1 will get credit for Dance/Fine Art and for Skill Based Lifetime Activities/PE.
- Awarding of the Skill Based Lifetime Activities credit is dependent upon teacher certification in both physical education and fine arts and is subject to change.

DRILL TEAM:

Students in drill team may receive up to 4 credits of fine arts as well as .5 course credits in the fall toward their physical education requirement up to 1 state credit as part of their extracurricular (after school) activity.

A student in drill team may accrue the following credits:

- 1st Time Taken- Dance I plus .5 Physical Education Substitution Credit (fall only)
- 2nd Time Taken- Dance II plus .5 Physical Education Substitution Credit (fall only)
- 3rd Time Taken- Dance III

- 4th Time Taken- Dance IV

Total Credits Possible: 4 Fine Arts Credits + 1 Physical Education Credit = 5

Students in their 3rd or 4th year of drill team who have not previously been awarded physical education substitution credit may also accrue up to 1 physical education substitution credit toward graduation. (.5 credit awarded fall only)

MARCHING BAND:

Students in marching band may receive up to 4 credits of fine arts as well as .5 course credits in the fall toward their physical education requirement up to 1 state credit as part of their extracurricular (after school) activity.

A student in band may accrue the following credits:

- 1st Time Taken- Music I Band plus .5 Physical Education Substitution Credit (fall only)
- 2nd Time Taken- Music II Band plus .5 Physical Education Substitution Credit (fall only)
- 3rd Time Taken- Music III Band
- 4th Time Taken- Music IV Band

Total Credits Possible: 4 Fine Arts Credits + 1 Physical Education Credit = 5

Students in their 3rd or 4th year of band who have not previously been awarded physical education substitution credit may also accrue up to 1 physical education credit toward graduation. (.5 credit awarded fall only)

PHYSICAL EDUCATION:

A student may not receive credit for a specific physical education course more than once. Students may earn a maximum of 4 state physical education credits through any combination of physical education courses and/or substitutions.

Partners in PE (PIP) is a success-oriented PE program featuring supervised peer tutors and individualized learning and instruction. The purpose of the program is to encourage physical activity, increase knowledge of health and fitness strategies, and assist in the acquisition of individual lifetime recreation activities and/or skills associated with team sports. If you are interested in participating in this course, please visit with your school counselor.

RESERVE OFFICER TRAINING CORPS I:

Students in JROTC I receive 1 physical education substitution credit for the course. JROTC I can be used to meet the state physical education requirements.

PLANNING TIMELINE

9th and 10th Grades

- Analyze your interests and abilities and consider the connections to possible careers. Utilize SchoolLinks resources to discover your areas of interest and career possibilities.
- Join extra-curricular activities which help develop teamwork, leadership and responsibility.
- Talk to your parents about future plans.
- Set up an appointment to visit with your school counselor.
- Challenge yourself by exploring AP, Dual Credit, OnRamps, and Career and Technical Education courses.
- Struggling with a subject? Ask for additional help from your teacher, counselor or parent.
- Visit your College & Career Center.
- Investigate various types of post-secondary education possibilities.
- Research financial aid opportunities and resources – scholarships, grants, loans, work study.
- Sign up for pre-college assessment opportunities such as the PSAT and PACT.
- Volunteer your time in areas of your interest.
- Consider volunteering with non-profit causes.
- Attend College Night.

11th and 12th Grades

- Register by deadlines for college entrance exams required by the schools you are interested in attending (usually in fall and spring of junior year and fall of senior year).
- Take TSI if you are planning to attend a TX state college or university.
- Attend a job fair and/or college fair.
- Take the ASVAB Interest Inventory to help determine career interests and college choices.
- Narrow down the list of schools for submitting applications.
- Engage in community service or volunteerism.
- Set up an appointment with your school counselor to go over your plans.
- Visit the College and Career Center.
- Attend a financial aid night and/or college night with your parents.
- Submit college applications on time.
- Complete Free Application for Federal Student Aid (FAFSA) and other financial aid forms for schools you are considering attending. Apply during the fall of your senior year.
- Visit the US Department of Education website for complete listings of free financial aid brochures and information packets.
- Register with appropriate athletic association for desired division (NCAA, NAIA, etc.). See your Coach for more information.

Sarah Hollenstein Career and Technology Center (HCTC)



Classes at the Hollenstein Career and Technology Center (HCTC) equip students with the skills needed for 21st century professional careers through an innovative, visionary approach to education in a state-of-the-art facility. The HCTC hosts 14 program pathways that incorporate rigorous academic study with an emphasis on career preparation through applied learning.

EMS ISD ENDORSEMENTS 2022-2023

BUSINESS AND INDUSTRY

VIDEO PRODUCTION		
Grade	Course	Cr
9-10	Prin A/V#	1
11-12	Video Prod 1*	2
12	Video Prod 2*	2

AUDIO PRODUCTION		
Grade	Course	Cr
9-10	Prin A/V#	1
11	Digital Aud Tech	2
12	Pract of Aud Prod*	2

AIRCRAFT MAINTENANCE		
Grade	Course	Cr
9-10	Intro to Transp#	.5
11	Intro to Aircraft**	3
12	Aircraft Pwrplnt**	3

AUTOMOTIVE		
Grade	Course	Cr
9-10	Intro to Transp#	.5
10-11	Auto Tech 1*	2
11-12	Auto Tech 2*	2
12	Pract in Auto*	2

MANUFACTURING ENGINEERING		
Grade	Course	Cr
9-10	Prin of Manu Eng or Prin of App Eng#	1
10-11	Precision Metal 1*	2
11-12	Precision Metal 2*	2
12	Pract in Manu	2

GRAPHIC DESIGN		
Grade	Course	Cr
9-10	Digital Media#	1
11	Graphic Design 1*	2
12	Graphic Design 2*	2

ANIMATION		
Grade	Course	Cr
9-10	Digital Media#	1
11	Animation 1*	2
12	Animation 2*	2

ARCHITECTURE		
Grade	Course	Cr
9-10	Prin of Arch. #	1
11	Arch. Des. 1	1
12	Architect. Des. 2*	2

CONSTRUCTION /ELECTRICAL		
Grade	Course	Cr
9-10	Prin of Construct. #	1
11	Construct. Tech 1	2
12	Electrical Tech 1 & 2*	3

WELDING		
Grade	Course	Cr
9-10	Intro to Welding#	1
11	Welding 1*	2
12	Welding 2*	2

BUSINESS		
Grade	Course	Cr
9	Prin of Bus, Mkt, F#	1
10	Bus Info Mgmt 1	1
11	Bus Info Mgmt 2	1
12	Bus Mgmt	1

BUSINESS MARKETING		
Grade	Course	Cr
9	Prin of Bus,Mkt,F	1
10	Sprt/Ent Mktg & Advertising OR Bus Infor Mgmt 1	1
11	Entrepreneurship	1
12	Bus Management	1

FINANACE		
Grade	Course	Cr
9	Prin of Bus,Mkt,F	1
10	Money Matters	1
11	Account 1	1
12	Account 2	1
12	Sec/Inv & Financial Analysis	2

COMMUNICATION		
Grade	Course	Cr
9-12	English Elective	1
9-12	Debate 1, 2 and 3	2
10-12	OR Newsprr 1, 2, or 3	3
10-12	OR Yearbook 1, 2, or 3	3

INFORMATION TECHNOLOGY		
Grade	Course	Cr
9-10	Prin of Info Tech#	1
10-11	Computer Maint /lab*	2
11-12	Networking Security lab*	2
12	Practicum in IT 1*	2

CULINARY ARTS		
Grade	Course	Cr
9-10	Intro to Culinary [#]	1
10	Culinary Arts [*]	2
11-12	Adv Culinary [*]	2
12	Pract in Culinary [*]	2

PLANT SCIENCE		
Grade	Course	Cr
9-10	Prin of Ag [#]	1
9-10	Floral Design ^R	1
11-12	GH Oper (TCC Dual Cr) ^{***}	2
12	Horticulture Sci & Adv Plant/Soil (TCC Dual Cr) ^{***}	2

VETERINARY SCIENCE		
Grade	Course	Cr
9-10	Prin of Ag [#]	1
9-10	Sm Animal	.5
10-11	& Equine [#] OR Livestock	.5 1
11-12	Vet Med Appl & Adv Animal Sci [*]	2
12	Pract in Ag [*]	2

VETERINARY SCIENCE		
Grade	Course	Cr
9-10	Prin of Ag [#]	1
9-10	Sm Animal	.5
10-11	& Equine [#] OR Livestock [#]	.5 1
11-12	Anat/Phys	1
11-12	Vet Med Appl & Adv Animal Sci [*]	2

^R Course is recommended

[#] Course is prerequisite to advanced courses

^{*} Course is at HCTC and may include additional cost

^{**} Course is at TCC Alliance

^{***} Course is at TCC NW

STEM – All STEM must include Algebra II, Chemistry, and Physics

AEROSPACE ENGINEERING		
Grade	Course	Cr
8-10	Prin of Appl Engin ^{##}	1
11	Aerospace 1 [*]	2
12	Aerospace 2 [*]	2

DRONE ENGINEERING		
Grade	Course	Cr
8-10	Prin of Appl Engin [#]	1
10	Intro to Robotics	1
11-12	Drone 1 [*]	2

MATH		
Grade	Course	Cr
8-9	Algebra 1	1
9-10	Geometry	1
10-11	Algebra 2	1
11-12	Adv Math	1
12	Adv Math	1

SCIENCE		
Grade	Course	Cr
9	Biology	1
10	Chemistry	1
11	Physics	1
11-12	Adv Science	1
11-12	Adv Science	1

COMPUTER SCIENCE		
Grade	Course	Cr
10	Chemistry	1
10-11	Algebra 2	1
11	Physics	1
9-12	ADV Comp Sci	1
10-12	AP Comp Sci Principles	1
10-12	AP Comp Sci A	2

PUBLIC SERVICE

EDUCATION		
Grade	Course	Cr
9	Prin of Ed#	1
10	Child Dev ^R	1
10-11	Instruct Prac*	2
11-12	Practicum in Ed 1*	2
12	Practicum in Ed 2*	2

HEALTH SCIENCE		
Grade	Course	Cr
9	Prin of Hlth Sci	1
10	Medical Term ^R	1
11-12	Anatomy /Phys	1
11-12	Patho-physiology	1

HEALTH SCIENCE		
Grade	Course	Cr
9	Prin of Hlth Sci	1
10	Medical Term ^R	1
11	World Hlth Thry* OR Sports Med*	2
12	Practicum in HST*: PCT, EMR, EKG, PT	2

HEALTH SCIENCE		
Grade	Course	Cr
9	Prin of Hlth Sci	1
10	Medical Term ^R	1
11-12	Anat/Phys OR Patho-physiology	1
11-12	Hlth Sci Thry*:SM, PCT, EMR, EKG, PT	2

HEALTH SCIENCE		
Grade	Course	Cr
9	Prin of Hlth Sci	1
10	Medical Term ^R	1
11-12	World Hlth Thry* OR Sports Med**	2
12	Anat/Phys OR Patho-physiology	1

HEALTH SCIENCE		
Grade	Course	Cr
9	Prin of Hlth Sci	1
10	Med Term ^R	1
11-12	Anat Phys ^R	1
11	World Hlth Thry*	2
12	Bio Med Rsch Bio Tech 1 & Med Micro	2

COSMETOLOGY		
Grade	Course	Cr
11	Cosmo 1* Intro to Cosmo & Cosmo	3
12	Cosmo 2*	3

FAMILY/COMMUNITY SERVICES		
Grade	Course	Cr
8-9	Prin of Hum Svc	1
10	Life Nutr & Inter. Std	.5 .5
11	Child Dev	1
12	Couns & Mnt Hlth	1

LAW ENFORCEMENT		
Grade	Course	Cr
9-10	Prin of Law#	1
11	Law Enforce 1	1
12	Law 2 Law Enfor 2 / Federal Law Enf	2
11-12	Forensic Sci* ^R	1

LEGAL STUDIES		
Grade	Course	Cr
9-10	Prin of Law#	1
10-12	Courts 1* Cts Sys & Prac/Bus Law	2
11-12	Courts 2* Legal Rsch & Writing/Adv Cts Systems	2

EMERGENCY SERVICES		
Grade	Course	Cr
9-10	Prin of Law#	1
11	Fire Fighter 1 (TCC Dual Cr)***	2
12	Fire Fighter 2 (TCC Dual Cr)***	3

MILITARY SCIENCE		
Grade	Course	Cr
9-12	JROTC 1, 2, 3, & 4	4

MULTIDISCIPLINARY

CORE		
Grade	Course	Cr
9-12	4 credits in each core subject	16

Must include Eng 4 & Chem or Physics

ADVANCED ACADEMICS		
Grade	Course	Cr
9-12	4 credits in AP Courses	16

English, math, science, social students, language, and/or fine arts

^RCourse is recommended

Course is prerequisite to advanced courses

* Course is at HCTC and may include additional cost

** Course is at TCC Alliance

***Course is at TCC NW

ARTS AND HUMANITIES

SOCIAL STUDIES		
Grade	Course	Cr
9	W/H Geography	1
10	W History	1
11	US History	1
12	Govt/Econ	1
10-12	SS Elective	1

WORLD LANGUAGES		
Grade	Course	Cr
8-12	Same Language	4
Grade Course Cr		
8-12	Language 1	2
8-12	Language 2	2

FINE ARTS		
Grade	Course	Cr
9-12	Sequence of FA: Art, Band, Choir, Dance, Theatre	4

EMS ISD ENDORSEMENTS FOR ACADEMIC PATHWAYS

STEM (SCIENCE, TECHNOLOGY, ENGINEERING, MATHEMATICS)

All STEM must include algebra 2, chemistry, and physics.

MATH

Grade	Course	Credit
8-9	Algebra 1	1
9-10	Geometry	1
10-11	Algebra 2	1
11-12	Adv Math	1
12	Adv Math	1

SCIENCE

Grade	Course	Credit
9	Biology	1
10	Chemistry	1
11	Physics	1
11-12	Adv Science	1
12	Adv Science	1

PUBLIC SERVICE

MILITARY SCIENCE

Grade	Course	Credit
9-12	JROTC 1, 2, 3, & 4	4

ARTS AND HUMANITIES

SOCIAL STUDIES

Grade	Course	Credit
9	W/H Geography	1
10	W History	1
11	US History	1
12	Govt/Econ	1
10-12	SS Elective	1

4 YEARS, 1 LANGUAGE

Grade	Course	Credit
8-12	Same Language	4

2 YEARS, 2 LANGUAGES

Grade	Course	Credit
8-12	Language 1	2
8-12	Language 2	2

ARTS AND HUMANITIES (Continued)

FINE ARTS

Grade	Course	Credit
9-12	Sequence of FA- Art, Band, Choir, Dance, Theater	4

MULTIDISCIPLINARY

Grade	Course	Credit
9-12	4 credits in each core subject. Must include Eng 4 & Chem or Physics.	16

Grade	Course	Credit
9-12	4 credits in AP courses. English, Math, Science, Social Studies, Language, and/or Fine Arts	4

GRADUATION REQUIREMENTS

EMS-ISD Distinguished Level of Achievement Plan includes one Endorsement	Programs of Study/Endorsements	Performance Acknowledgements
<p>English Language Arts</p> <ul style="list-style-type: none"> English 1 English 2 English 3 Advanced English <p>Mathematics</p> <ul style="list-style-type: none"> Algebra 1 Geometry Algebra 2 Advanced Math <p>Social Studies</p> <ul style="list-style-type: none"> World Geography World History US History Government & Economics <p>Science</p> <ul style="list-style-type: none"> Biology IPC, Chemistry, or Physics Advanced Science Advanced Science <p>World Languages</p> <ul style="list-style-type: none"> Year 1 Year 2 <p>Fine Arts</p> <ul style="list-style-type: none"> Variety of course options <p>Physical Education</p> <ul style="list-style-type: none"> Variety of course options <p>Electives</p> <ul style="list-style-type: none"> Elective 1 Elective 2 Elective 3 Elective 4 Elective 5 Elective 6 <p>STAAR EOC – English 1, English 2, Algebra 1, US History and Biology</p>	<p>STEM (all options require Algebra 2, Chemistry and Physics)</p> <ul style="list-style-type: none"> Computer Science Engineering: Aerospace and Drone* Math – 2 courses above Algebra 2 Science – Bio and 2 additional science credits <p>Business and Industry</p> <ul style="list-style-type: none"> Agriculture: Plant or Veterinary Science* Architecture, Construction, Electrical* Audio or Video Production* Business, Marketing, or Finance* Communication (Journalism or Debate) Culinary* Design and Multimedia Arts: Animation or Graphic Design* Information Technology* Manufacturing: Welding or Manufacturing Engineering* Transportation: Auto or Aircraft* <p>Public Services</p> <ul style="list-style-type: none"> Education* Health Science* Human Services: Counseling or Cosmetology* JROTC Law and Public Safety: Law Enforcement, Legal Studies, or Fire Fighter* <p>Arts and Humanities</p> <ul style="list-style-type: none"> Fine Arts – Art, Band, Choir, Dance, Theatre Social Studies World Language <p>Multidisciplinary Studies</p> <ul style="list-style-type: none"> 4X4 - four English, four Math, four Social Studies, four Science – to include English 4 and Chemistry or Physics Four credits in Advanced Placement (AP) or Dual Credit selected from English, math, science, social studies, and languages other than English 	<p>Dual Credit</p> <ul style="list-style-type: none"> 12 College credit hours with a grade of 3.0 or higher Associate Degree <p>Bilingualism/Biliteracy</p> <ul style="list-style-type: none"> Complete all ELA requirements with a minimum GPA of 80, and one of the following: <ul style="list-style-type: none"> 3 credits in the same world language with a minimum GPA of 80 Pass level 4 or higher world language with a minimum GPA of 80 3 credits in world language with a minimum GPA of 80 AP world language score of 3.0 or higher IB world language score of 4.0 or higher <p>ELL Students Must Also:</p> <ul style="list-style-type: none"> Participate and meet exit criteria for a bilingual or ESL program Score Advance High Level on TELPAS <p>AP/IB</p> <ul style="list-style-type: none"> Score 3 or higher on an AP exam Score 4 or higher on an IB exam <p>College Entrance Exam</p> <ul style="list-style-type: none"> PSAT score of commended or higher College Benchmark score on two out of four exams on the ACT-PLAN SAT 1310-reading/math combined ACT 28-composite score without writing <p>Business/Industry Certification</p> <p>Complete a national or international certification for business or industry</p>
<p>Distinguished Level</p> <ul style="list-style-type: none"> Must have to be eligible for top 10% Automatic Admission Algebra 2 must be one of the student’s math credits 	<p>*CTE Program of Study - A coherent sequence of 3 or more courses for 4 credits or credits including an advanced course (Level III or IV) within an approved program of study.</p>	

PERFORMANCE ACKNOWLEDGEMENTS

Advanced Coursework

- 12 hours of dual credit or locally articulated courses, with a grade of a “B” or higher
~ OR ~
- An Associate’s degree while in High School

Bilingualism/Biliteracy Coursework

- Completing all ELA requirements with a grade of a “B” or higher
~ AND ~
- Three credits in the same “Language other than English” with a grade of a “B” or higher
~ OR ~
- Successful completion of a Level 4 course in a “Language other than English” with a grade of a “B” or higher
~ OR ~
- Completion of at least three credits in foundation subject area courses in a language other than English with a grade of a “B” or higher
~ OR ~
- A score of a “3” or higher on a College Board AP Exam for a “Language other than English”
~ OR ~
- Performance on a national assessment of language proficiency in a “Language other than English”

EMERGENT BILINGUAL LEARNERS ONLY

In addition to above requirements, students must also

- Participate in and meet the exit criteria for a bilingual or ESL

AND

- Scored at the Advanced High Level on the TELPAS

Advanced Examination

A score of 3 or higher on a College Board AP Exam

College Readiness Examination

- Commended Scholar score or higher on the PSAT/NMSQT for either the NHRP or NASP
~ OR ~
- College Readiness Benchmark score on at least two of the subject tests on the ACT-PLAN exam
~ OR ~
- Combined Critical Reading & Mathematics Score of at least 1310 on the SAT
~ OR ~
- Composite score of at least 28 on the ACT (excluding the writing sub-score)

Workforce Readiness

- Successful performance on an examination that results in obtaining a nationally or internationally recognized business or industry certification
~ OR ~
- Successful performance on an examination that results in obtaining a government-required credential to practice a profession

ENGLISH LANGUAGE ARTS

Course Name	Credits	GPA Levels	Grade Levels	Prerequisites
English I	1	1	9	None
Advanced English I / GT	1	2	9	See Suggested Guidelines
English II	1	1	10	None
Advanced English II / GT	1	2	10	(Advanced English I Recommended) See Suggested Guidelines
English III	1	1	11	None
English III AP / GT	1	3	11	(Advanced English II Recommended) See Suggested Guidelines
English III Dual Credit (ENGL 1301, ENGL 1302)	1	2	11	TCC Admissions Standards
English IV*	1	1	12	None
English IV AP*	1	3	12	(English III AP Recommended) See Suggested Guidelines
English IV Dual Credit* (ENGL 1301, ENGL 1302) or (LIT 2327, LIT 2323)	1	2	12	TCC Admissions Standards
English I for Speakers of Other Languages	1	1	9-12	LPAC Committee Placement
English II for Speakers of Other Languages	1	1	10-12	LPAC Committee Placement
Creative/Imaginative Writing	.	1	10-12	English I
AP Capstone Seminar*	1	3	*10-12	Successful completion of high school Advanced or AP course *10 th graders REQUIRE counselor advisement and AP Capstone teacher approval.
AP Capstone Research*	1	3	11-12	AP Capstone Seminar
Practical Writing Skills as well as Reading 1, 2, 3 (English Language Learners, SPED ARD decision, and Watson Learning Center Only)	.5-1	1	9-12	None
ELDA- English Language Development and Acquisition I	1	1	9-12	None
ELDA- English Language Development and Acquisition II	1	1	10-12	None
English Prep Lab (Individual Study in English)	1	1	10-12	Lack of success on English EOC STAAR Tests

**These are considered foundation advanced courses which can fulfill 4th year English requirements.*

Level 1- no extra points to GPA

Level 2- 5 extra points to GPA

Level 3- 10 extra points to GPA

Suggested Guidelines for Advanced and Advanced Placement English

- *Successful completion of English courses taken previously with an average of 80 or above*
- *Students encouraged to seek teacher advisement*
- *Student should have passed STAAR*

These suggested guidelines are designed to aid the student in choosing the course in which he/she will be most successful.

ENGLISH RECOMMENDED SEQUECE

HS Year 1	HS Year 2	HS Year 3	HS Year 4
English I	English II Advanced English II	English III Dual Credit English III AP English III AP Capstone Seminar	English IV AP English IV Dual Credit English IV Debate III AP Capstone Seminar AP Capstone Research
Advanced English I	English II Advanced English II	English III Dual Credit English III AP English III AP Capstone Seminar	English IV AP English IV Dual Credit English IV Debate III AP Capstone Seminar AP Capstone Research

English I

Course: 1010

Grade Placement: 9

Prerequisite: None

Credit: 1

In English I, students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. Students will read and write on a daily basis. Students read extensively in multiple genres, such as stories, dramas, novels, and poetry from world literature. Students learn literary forms and terms and interpret the possible influences of the historical context on a literary work. Rigorous writing instruction emphasizes organizing logical arguments, theses, and evidence. Writing instruction emphasizes sentence structure, paragraph development and development of comprehensive papers with focus on argument, research and description. Students will revise and edit their writing as part of the writing process. Composition practice is coordinated with guided reading of fiction, nonfiction, drama and poetry. The course will focus on critical thinking skills, literary analysis and development of writing styles. English I students are required to pass the State of Texas Assessments of Academic Readiness (STAAR) end-of- course (EOC) exam to meet part of the graduation requirements.

Advanced English I / GT

Course: 1015 / 1016

Grade Placement: 9

Prerequisite: See Suggested Guidelines

Credit: 1

The Advanced English I curriculum requires critical reading and is writing based. Students are required to write multiple compositions, including a documented literary criticism research project. Students concentrate on vocabulary skills, language concepts, and critical thinking. Reading assignments emphasize analysis and interpretation of plays, novels, epics, poetry, and mythology. Summer reading is required. **Extra time is required on the part of Advanced students for class preparation, outside reading, and completion of assignments.** For more information on high school GT clustering, see page 7. English I Advanced students are required to pass the State of Texas Assessments of Academic Readiness (STAAR) end-of- course (EOC) exam to meet part of the graduation requirements.

English II

Course: 1020

Grade Placement: 10

Prerequisite: None

Credit: 1

In English II, students will engage in activities that build on prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. Students will read and write on a daily basis. Students read extensively in multiple genres, such as stories, dramas, novels, and poetry, from world literature; learn literary forms and terms; and interpret the possible influences of the historical context on a literary work. A writing emphasis is placed on argumentative forms of writing such as logical arguments, expressions of opinion, and personal forms of writing (i.e., response to literature, a reflective essay, or an autobiographical narrative). Composition practice is coordinated with guided reading of fiction, nonfiction, drama, and poetry. Students will revise and edit their writing as part of the writing process. The course will focus on critical thinking skills, literary analysis, and development of writing styles. English II students are required to pass the State of Texas Assessments of Academic Readiness (STAAR) end-of- course (EOC) exam to meet part of the graduation requirements.

Advanced English II / GT

Course: 1025 / 1026

Grade Placement: 10

Prerequisite: See Suggested Guidelines

Credit: 1

Advanced English II builds on the skills introduced in Advanced English I and stresses mastery of English usage, general essay skills, literary and stylistic analysis, and critical thinking. Students enhance their appreciation of the classics through exploration of various forms of world literature. They become acquainted with the various philosophical and literary movements of each age. Stressed areas include concepts and skills in writing, language, research, and literary concepts. Summer reading is required. **Extra time is required on the part of Advanced students for class preparation, outside reading, and completion of assignments.** For more information on high school GT clustering, see page 7. English II Advanced students are required to pass the State of Texas Assessments of Academic Readiness (STAAR) end-of- course (EOC) exam to meet part of the graduation requirements.

English III

Course: 1030

Grade Placement: 11

Prerequisite: None

Credit: 1

In English III, students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. Students will read and write on a daily basis. Students read extensively in multiple genres from American and world literature, learn literary forms and terms, and interpret the possible influences of the historical context on a literary work. Students write in a variety of forms, including informational, personal, literary, and argumentative texts. Students also write résumés, college and career essays, correspondence, and engage in research while revising and editing their drafts for clarity and the correct use of the conventions and mechanics of written English as part of the writing process. Students will engage in SAT-style practice and assessments to improve their reading, proofreading, writing, and language skills.

English III AP / GT

Course: 1035 / 1036

Grade Placement: 11

Prerequisite: (Advanced English II Recommended) See suggested guidelines

Credit: 1

The English III AP curriculum focuses on English language and composition with specific emphasis in rhetoric and persuasion. English III AP enables students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively with mature readers. Students primarily read American literature and nonfiction and develop critical skills through extensive reading, discussion, and writing, including a documented research paper. Summer reading is required. **Extra time is required on the part of AP students for class preparation, outside reading, and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses. Students are expected to take the Advanced Placement Exam in the spring.** For more information on high school GT clustering, see page 7.

English IV

Course: 1040

Grade Placement: 12

Prerequisite: None

Credit: 1

In English IV, students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. Students will read and write on a daily basis. Intense instruction emphasizes an in-depth study of British and world literature. Composition work consists of a variety of forms with informational, argumentation, personal, literary, research, and business writing. Students read extensively in multiple genres from British literature and world literature, learn literary forms and terms, and interpret the possible influences of the historical context on a literary work. Students use a style guide to revise and edit their papers for clarity and the correct use of the conventions and mechanics of written English. Students will engage in TSI-style practice and assessments to improve their reading, proofreading, writing, and language skills.

English IV/College Prep English

Course: 1040CR

Grade Placement: 12

Prerequisite: Any student who has yet to meet TEA College Readiness benchmarks in English.

Credit: 2

The Texas College Bridge digital platform will be embedded into the English IV curriculum to ensure that students are college and career ready. Success with the Texas College Bridge includes passing Stages 1 and 2 with a 90% as well as passing the essay portion. Upon completion of the College Bridge curriculum, students will receive 1.0 high school credit for College Preparatory English. Upon completion of the school year, students with a passing average will earn 1.0 high school credit for English IV. Students must submit their College Bridge Green Light certificate to participating colleges and universities to meet English entrance requirements.

English IV AP

Course: 1045

Grade Placement: 12

Prerequisite: (English III AP Recommended) See suggested guidelines

Credit: 1

The English IV AP curriculum focuses on English and world literature and composition. English IV AP enables students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively with mature readers. Students primarily read British and world literature and develop critical skills through extensive reading, discussion, and writing. Summer reading is required. ***Extra time is required on the part of AP students for class preparation, outside reading, and completion of assignments than is normally required of students in regular classes. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses. Students are expected to take the Advanced Placement Exam in the spring.***

AP Capstone Seminar

Course: 1050, 1050E3, 1050E4

Grade Placement: *10-12

Prerequisite: Advanced/AP experience or teacher approval, *Students interested in enrolling as sophomores REQUIRE counselor advisement and AP Capstone teacher approval.*

Credit: 1

In AP Seminar, students investigate real-world issues from multiple perspectives, gathering and analyzing information from various sources to develop valid and evidence-based arguments. Students engage in cross-curricular conversations that explore the complexities of academic and real-world topics by analyzing divergent perspectives. Students learn to synthesize information from multiple sources, develop their own perspectives in research-based written essays, and design and deliver oral and visual presentations, both individually and as a part of a team. Students may earn English III, English IV, or Elective credit for this course. ***Extra time is required on the part of AP students for class preparation, outside reading, and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses. Students are expected to take the Advanced Placement exam in the spring.***

AP Capstone Research

Course: 1051, 1051E4

Grade Placement: 11-12

Prerequisite: AP Capstone Seminar

Credit: 1

In AP Research students cultivate the skills and discipline necessary to conduct independent research in order to produce and defend a scholarly academic thesis. Students explore an academic topic, problem, or area of individual interest deeply. Through this exploration, they design, plan, and conduct yearlong mentored, research-based investigations to address a research question. In this course, students build upon skills acquired in AP Seminar course by understanding research methods, employing ethical research practices, and assessing, analyzing, and synthesizing information as they address a research question. The course culminates in an academic thesis paper of approximately 5000 words and a presentation, performance, or exhibition with an oral defense. Students may earn English IV or Elective credit for this course. ***Extra time is required on the part of AP students for class preparation, outside reading, and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses. Students are expected to take the Advanced Placement exam in the spring.***

English III Dual Credit

Course: 1033/1034 (ENGL 1301, ENGL 1302)

Grade Placement: 11

Prerequisite: TCC Admissions Standards

Credit: 1**English IV Dual Credit**

Course: 1043/1044 (ENGL 1301, ENGL 1302)

Grade Placement: 12

Prerequisite: TCC Admissions Standards

Credit: 1**English IV Dual Credit**

Course: 1046/1047 (LIT 2327, LIT 2323)

Grade Placement: 12

Prerequisite: TCC Admissions Standards and 1301 & 1302

Credit: 1

Students will receive both high school and college credit upon successful completion of the class. This is a college-level class, which is designed for highly motivated students who are prepared to take a college course in high school.

English 1301– English Composition I

In English Composition I, students participate in an intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively.

English 1302- English Composition II

In English Composition II, students study and practice the strategies and techniques for developing research-based expository and persuasive texts. Emphasis is on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions.

English 2327- American Literature to 1865

A survey of American literature from the period of exploration and settlement through the Civil War. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character.

English 2323- British Literature since 1800

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

Students must register and pay for the courses and books through Tarrant County College, Northwest Campus.

English I for Speakers of Other Languages

Course: 1061

Grade Placement: 9-12

Prerequisite: LPAC Committee Placement

Credit: 1

Enrollment is limited to non-native speakers of English. ESOL I incorporates the essential skills and knowledge for English I with an additional emphasis on language acquisition skills. Placement in ESOL I is dependent upon the student's proficiency level in English and will be determined by the Language Proficiency Assessment Committee.

English II for Speakers of Other Languages

Course: 1062

Grade Placement: 10-12

Prerequisite: LPAC Committee Placement

Credit: 1

Enrollment is limited to non-native speakers of English. ESOL II incorporates the essential skills and knowledge for English II with an additional emphasis on language acquisition skills. Placement in ESOL II is dependent upon the student's proficiency level in English and will be determined by the Language Proficiency Assessment Committee.

THE FOLLOWING COURSES ARE ELECTIVES OFFERED IN ENGLISH.

Creative/Imaginative Writing

Course: 1070

Grade Placement: 10-12

Prerequisite: English I

Credit: .5

Students will produce a variety of creative writing pieces addressing various modes and genres and will publish their writing in a

school or class literary magazine.

Practical Writing Skills (English Language Learners and Watson Learning Center Only)

Course: 1074

Grade Placement: 9-12

Credit: .5-1

Students will produce a variety of writing pieces addressing various modes and genres based on the TEKS-based concepts and elements of the writing process. Students will publish and present their writing.

Reading 1, 2, & 3 (English Language Learners and Watson Learning Center Only)

Course: 1071, 1072, 1073

Grade Placement: 9-11

Prerequisite: LPAC Committee or Faculty Placement

Credit: .5-1

Students will read texts addressing different modes and genres based on TEKS concepts. The class will focus on improving students' reading comprehension and proficiency.

English Prep Lab (Individual Study in English)

Course: 1063, 1064, 1065

Grade Placement: 10-12

Prerequisite: Lack of success on English EOC STAAR Tests

Credit: 1

This course is designed to help students build skills and learn concepts necessary to be successful on the English Language Arts EOC STAAR. Students who have tested and demonstrated needed areas of improvement in English Language Arts will be scheduled for this course. Students must pass the EOC STAAR to meet high school graduation requirements.

ELDA- English Language Development and Acquisition I

Course: 1066

Grade Placement: 9-12

Prerequisite: None

Credit: 1

This class is designed to provide instructional opportunities for secondary recent immigrants with little or no English proficiency. This course must be taken with a corequisite language arts class. The recommended corequisites are ESOL I and ESOL II. Students may take this course with a different corequisite for a maximum of two credits. Placement in this course will be determined by the Language Proficiency Assessment Committee.

ELDA- English Language Development and Acquisition II

Course: 1067

Grade Placement: 10-12

Prerequisite: None

Credit: 1

This class is designed to provide instructional opportunities for secondary recent immigrants with little or no English proficiency. This course must be taken with a corequisite language arts class. The recommended corequisites are ESOL I and ESOL II. Students may take this course with a different corequisite for a maximum of two credits. Placement in this course will be determined by the Language Proficiency Assessment Committee.

MATHEMATICS

Course Name	Credits	GPA Levels	Grade Levels	Prerequisites
Algebra I	1	1	9	Grade 8 Mathematics
Advanced Algebra I / GT	1	2	9	Grade 8 Mathematics See Suggested Guidelines
Geometry	1	1	9-10	Algebra I
Advanced Geometry / GT	1	2	9-10	Algebra I See Suggested Guidelines
Math Models with Applications	1	1	10-11	Algebra I
Algebraic Reasoning	1	1	10-11	Algebra I
Algebra II	1	1	10-12	Algebra I
Algebra II Dual Credit (Math 1314)	1	2	10-12	Algebra I and Geometry Acceptable TSI Score
Advanced Algebra II / GT	1	2	10-12	Algebra I - See Suggested Guidelines
OnRamps College Algebra (TCCNS+: MATH 1314)	1	2	10-11	Algebra I, Geometry and Teacher Recommendation - Contact Counselor
Independent Study in Math Dual Credit* (Math 1324)	1	2	11-12	Algebra I, Geometry and Algebra II Acceptable TSI Score
Advanced Quantitative Reasoning*	1	1	11-12	Algebra I, Geometry and Algebra II
Precalculus*	1	1	11-12	Algebra I, Geometry and Algebra II
Advanced Precalculus *	1	2	11-12	Algebra I, Geometry and Algebra II - See Suggested Guidelines
OnRamps Precalculus* (TCCNS+: MATH 2312)	1	2	11-12	Algebra I, Geometry, Algebra II and Teacher Recommendation - Contact Counselor
AP Calculus AB*	1	3	12	Precalculus - See Suggested Guidelines
AP Calculus BC*	1	3	12	Precalculus - See Suggested Guidelines
AP Statistics*	1	3	11-12	Algebra II - See Suggested Guidelines
AP Computer Science A*	2	3	10-12	Algebra 1 and Advanced Computer Science or AP Computer Science Principles
Accounting II*	1	1	11-12	Accounting I
College Prep Math	1	1	12	Three years of HS Math(Algebra 2) - Contact Counselor
Drone Engineering	2	1	11-12	Principles of Applied Engineering, Algebra I, and Geometry; fee

**These are considered foundation advanced courses which can fulfill 3rd and 4th year Math requirements.*

+TCCNS = Texas Common Course Numbering System

Level 1- no extra points added to GPA Level 2- 5 extra points added to GPA Level 3- 10 extra points added to GPA

Suggested Guidelines for Advanced and Advanced Placement Mathematics

- Successful completion of mathematics courses taken previously with an average of 80 or above
- Students encouraged to seek teacher advisement
- Student should have passed STAAR

These suggested guidelines are designed to aid the student in choosing the course in which he/she will be most successful.

MATH RECOMMENDED SEQUENCE

8 th Grade	HS Year 1	HS Year 2	HS Year 3	HS Year 4
Advanced Algebra I	Geometry Advanced Geometry	Algebra II Advanced Algebra II	Advanced Math*	Advanced Math*
8 th Grade Math 8 th Grade Advanced Math	Algebra I Advanced Algebra I	Geometry Advanced Geometry	Algebra II Advanced Algebra II	Advanced Math*
8 th Grade Math	Algebra I	Geometry Math Models Algebraic Reasoning	Math Models Algebraic Reasoning Geometry	Algebra II

All students are required to complete 4 years of Math to include Algebra I, Geometry and Algebra II.

Course enrollment is subject to meeting prerequisite requirements.

Algebra I

Course: 1210

Grade Placement: 9

Prerequisite: Grade 8 Math

Credit: 1

In Algebra I, students will build on the knowledge and skills for mathematics in Grades 6-8, which provide a foundation in linear relationships, number and operations, and proportionality. Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology to collect and explore data and analyze statistical relationships. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables and will create new functions through transformations. Algebra 1 students are required to pass the State of Texas Assessments of Academic Readiness (STAAR) end-of-course (EOC) Algebra 1 exam to meet part of the graduation requirements.

Advanced Algebra I / GT

Course: 1215 / 1209

Grade Placement: 9

Prerequisite: Grade 8 Math (See Suggested Guidelines)

Credit: 1

In Algebra I, students will build on the knowledge and skills for mathematics in Grades 6-8, which provide a foundation in linear relationships, number and operations, and proportionality. Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology to collect and explore data and analyze statistical relationships. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students

will generate and solve linear systems with two equations and two variables and will create new functions through transformations. **Extra time is required on the part of Advanced students for class preparation and completion of assignments.** For more information on high school GT clustering, see page 7. *Advanced Algebra 1 students are required to pass the State of Texas Assessments of Academic Readiness (STAAR) end-of-course (EOC) Algebra 1 exam to meet part of the graduation requirements.*

Geometry

Course: 1220

Grade Placement: 9-10

Prerequisite: Algebra I

Credit: 1

In Geometry, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to strengthen their mathematical reasoning skills in geometric contexts. Within the course, students will begin to focus on more precise terminology, symbolic representations, and the development of proofs. Students will explore concepts covering coordinate and transformational geometry; logical argument and constructions; proof and congruence; similarity, proof, and trigonometry; two- and three-dimensional figures; circles; and probability. Students will connect previous knowledge from Algebra I, create formal constructions using a straight edge and compass, use deductive reasoning to justify, prove and apply theorems about geometric figures, use their proportional reasoning skills to prove and apply theorems and solve problems, and apply theorems about circles to determine relationships between special segments and angles in circles. Though this course is primarily Euclidean geometry, students should complete the course with an understanding that non-Euclidean geometries exist. Due to the emphasis of probability and statistics in the college and career readiness standards, standards dealing with probability have been added to the geometry curriculum to ensure students have proper exposure to these topics before pursuing their post-secondary education.

Advanced Geometry / GT

Course: 1225 / 1226

Grade Placement: 9-10

Prerequisite: Algebra I (See Suggested Guidelines)

Credit: 1

In Geometry, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to strengthen their mathematical reasoning skills in geometric contexts. Within the course, students will begin to focus on more precise terminology, symbolic representations, and the development of proofs. Students will explore concepts covering coordinate and transformational geometry; logical argument and constructions; proof and congruence; similarity, proof, and trigonometry; two- and three-dimensional figures; circles; and probability. Students will connect previous knowledge from Algebra I, create formal constructions using a straight edge and compass, use deductive reasoning to justify, prove and apply theorems about geometric figures, use their proportional reasoning skills to prove and apply theorems and solve problems, and apply theorems about circles to determine relationships between special segments and angles in circles. Though this course is primarily Euclidean geometry, students should complete the course with an understanding that non-Euclidean geometries exist. Due to the emphasis of probability and statistics in the college and career readiness standards, standards dealing with probability have been added to the geometry curriculum to ensure students have proper exposure to these topics before pursuing their post-secondary education. **Extra time is required on the part of Advanced students for class preparation and completion of assignments.** For more information on high school GT clustering, see page 7.

Math Models with Applications

Course: 1240

Grade Placement: 10-11

Prerequisite: Algebra I (may not be taken after Algebra II)

Credit: 1

Mathematical Models with Applications is designed to build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I. This mathematics course provides a path for students to succeed in Algebra II and prepares them for various post-secondary choices. Students learn to apply mathematics through experiences in personal finance, science, engineering, fine arts, and social sciences. Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, model information, solve problems, and communicate solutions. Students will select from tools such as physical objects; manipulatives; technology, including graphing calculators, data collection devices, and computers; and paper and pencil and from methods such as algebraic techniques, geometric reasoning, patterns, and mental math to solve problems.

Algebraic Reasoning

Course: 1216

Grade Placement: 10-11

Prerequisite: Algebra I (may not be taken after Algebra II)

Credit: 1

Algebraic Reasoning continues the development of mathematical reasoning related to algebraic understandings and processes and deepens the foundation for studies in subsequent math courses. Students will build on knowledge and skills for mathematics through Algebra I. Algebraic Reasoning involves preparation for success in Algebra II as the basic for all units is the study of linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value and logarithmic functions. This course is for those students that have not completed Algebra II nor have they chosen a path to AP or dual-credit coursework in high school.

Algebra II

Course: 1230

Grade Placement: 10-12

Prerequisite: Algebra I

Credit: 1

In Algebra II, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I. Students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Students will study logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Students will connect functions to their inverses and associated equations and solutions in both mathematical and real-world situations. In addition, students will extend their knowledge of data analysis and numeric and algebraic methods.

Advanced Algebra II / GT

Course: 1235

Grade Placement: 10-12

Prerequisite: Algebra I

(See Suggested Guidelines)

Credit: 1

In Advanced Algebra II, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I. Students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Students will study logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Students will connect functions to their inverses and associated equations and solutions in both mathematical and real-world situations. In addition, students will extend their knowledge of data analysis and numeric and algebraic methods. ***Extra time is required on the part of Advanced students for class preparation and completion of assignments.*** For more information on high school GT clustering, see page 7.

OnRamps College Algebra

Course: 1247 (Texas Common Course Numbering System: MATH 1314)

Grade Placement: 10-11

Prerequisite: Algebra I, Geometry, Teacher Recommendation (Contact your counselor prior to enrolling in this course for additional dual credit procedures and supplies necessary to complete this course).

Credit: 1

This course provides advanced-level math students the opportunity to study Algebra II topics in greater depth through inquiry-based learning. It helps prepare students for future success in OnRamps Precalculus and in college STEM major coursework. Enrollees in this course will practice constructing concepts for themselves and engage in deeper levels of abstraction, generalization, problem-solving, and modeling. Students will learn in a collaborative environment under the direction of both a University of Texas Austin professor and their high school teacher, and those who meet the criteria may additionally earn 3 college credit hours through UT Austin. ***Extra time is required on the part of Advanced students for class preparation and completion of assignments.***

Please note there is a fee associated with this course.

Algebra II Dual Credit**Course:** 1247 (MATH 1314)**Grade Placement:** 10-12**Prerequisite:** Algebra I, Geometry, acceptable TSI score**Credit:** 1

This course offers in-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, systems of equations using matrices. Additional topics such as sequences, series, probability, conics may be included. Computer software materials fee charged for some sections. This course fulfills the Algebra II requirement for the Distinguished Level of Achievement. This course cannot be taken after Algebra II or Advanced Algebra II for high school credit. This course is offered through an area college and all fees will be determined by that college.

Independent Study in Math Dual Credit**Course:** 1246 (MATH 1324)**Grade Placement:** 10-12**Prerequisite:** Algebra I, Geometry, Algebra II, acceptable TSI score**Credit:** 1

The application of common algebraic functions, including polynomial, exponential, logarithmic, and rational, to problems in business, economics, and the social sciences are addressed. The applications include mathematics of finance, including simple and compound interest and annuities; systems of linear equations; matrices; linear programming; and probability, including expected value. This course fulfills 3 hours of college math credit but does not fulfill the Algebra II requirements for the Distinguished Level of Achievement. This course is offered through an area college and all fees will be determined by that college. Before taking this course check to see if it will be accepted by the post-secondary institution you plan to attend.

Advanced Quantitative Reasoning**Course:** 1244**Grade Placement:** 11-12**Prerequisite:** Algebra I, Geometry and Algebra II**Credit:** 1

This course is a mathematics course that emphasizes statistics and financial applications, and it prepares students to use algebra, geometry, trigonometry, and discrete mathematics to model a range of situations and solve problems. It also prepares students for college majors that are not math intensive, for technical training or for a range of career options.

Precalculus**Course:** 1250**Grade Placement:** 11-12**Prerequisite:** Algebra I, Geometry, Algebra II**Credit:** 1

Precalculus is the preparation for calculus. The course approaches topics from a function point of view, where appropriate, and is designed to strengthen and enhance conceptual understanding and mathematical reasoning used when modeling and solving mathematical and real-world problems. Students systematically work with functions and their multiple representations. The study of Precalculus deepens students' mathematical understanding and fluency with algebra and trigonometry and extends their ability to make connections and apply concepts and procedures at higher levels. Students investigate and explore mathematical ideas, develop multiple strategies for analyzing complex situations, and use technology to build understanding, make connections between representations, and provide support in solving problems.

Advanced Precalculus

Course: 1255

Grade Placement: 11-12

Prerequisite: Algebra I, Geometry, Algebra II (See Suggested Guidelines)

Credit: 1

Precalculus is the preparation for calculus. The course approaches topics from a function point of view, where appropriate, and is designed to strengthen and enhance conceptual understanding and mathematical reasoning used when modeling and solving mathematical and real-world problems. Students systematically work with functions and their multiple representations. The study of Precalculus deepens students' mathematical understanding and fluency with algebra and trigonometry and extends their ability to make connections and apply concepts and procedures at higher levels. Students investigate and explore mathematical ideas, develop multiple strategies for analyzing complex situations, and use technology to build understanding, make connections between representations, and provide support in solving problems. ***Extra time is required on the part of Advanced students for class preparation and completion of assignments.***

OnRamps Precalculus

Course: 1260 (Texas Common Course Numbering System: MATH 2312)

Grade Placement: 11-12

Prerequisite: Algebra I, Geometry, Algebra II, Teacher Recommendation (Contact your counselor prior to enrolling in this course for additional dual credit procedures and supplies necessary to complete this course).

Credit: 1

In this course, students will deepen and extend knowledge for functions, graphs, and equations from previous courses to prepare them for future work in a rigorous university-level Calculus course. Topics of study include functions and patterns; algebra and geometry; trigonometry; rates of change and limits; other coordinate systems; and sequences and series. Collaborative class activities center on explorations that require unpacking mathematical definitions, making logical arguments, using problem-solving skills, and finding connections. Students have the opportunity to earn 3 credit hours of UT credit, with feedback and assessment provided by UT Austin course staff. ***Extra time is required on the part of Advanced students for class preparation and completion of assignments. Please note there is a fee associated with this course.***

AP Calculus AB

Course: 1265

Grade Placement: 12

Prerequisite: Precalculus (See Suggested Guidelines)

Credit: 1

This course focuses on students' understanding of calculus concepts and provides experience with methods and applications. Emphasis is on multi-representational approach, with concepts, results, and problems expressed graphically, numerically, analytically, and verbally. Topics covered are roughly the same as first semester college calculus course; they include limits, derivatives, and integrals and the Fundamental Theorem of Calculus. ***Extra time is required on the part of AP students for class preparation and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses. Students are expected to take the AP Calculus exam for possible college credit.***

AP Calculus BC

Course: 1275

Grade Placement: 12

Prerequisite: Precalculus (See Suggested Guidelines)

Credit: 1

This course focuses on students' understanding of concepts and provides experience with methods and applications. Emphasis is on a multi-representational approach, with concepts, results, and problems expressed graphically, numerically, analytically, and verbally. Topics covered are roughly equivalent to both first and second semester college calculus courses; they include what is covered in AP Calculus AB plus the additional topic of sequences and series. ***Extra time is required on the part of AP students for class preparation and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses. Students are expected to take the AP Calculus Exam in the spring for possible college credit.***

AP Statistics

Course: 1285

Grade Placement: 11-12

Prerequisite: Algebra II Recommended (See Suggested Guidelines)

Credit: 1

This course will introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. It is equivalent to a one-semester, introductory, non-calculus-based college course in statistics. **Extra time is required on the part of AP students for class preparation and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses. Students are expected to take the AP Statistics Exam in the spring for possible college credit.**

AP Computer Science A

Course: 5075

Grade Placement: 10-12

Prerequisite: Algebra 1 and Advanced Computer Science or AP Computer Science Principles recommended

Credit: 2

This college level computer science course is designed to prepare students for the Advanced Placement Computer Science Examination and is recommended for college bound students who wish to major in computer science or an analytical field. This course includes the study of advanced programming techniques, file management, data structures and an introduction to Object-Oriented Programming. Java is the language used for completing program assignments. The District's expectation is that the student will take the appropriate AP test. Effective August 27, 2018, 43 TexReg 5529 course may be credited as 1 mathematics and 1 LOTE credit. EMS Students receive 1 Math AP credit and 1 LOTE Pass/Fail credit.

Accounting II

Course: 5131

Grade Placement: 11-12

Prerequisite: Accounting I

Credit: 1

Accounting II provides for review and further development of fundamental accounting principles with extensive use of technology. Examines characteristics of corporate organization and ownership, including investments and distribution of earnings; includes adjustments to bad debts, depreciation, depletion of fixed assets, adjusted and accrued income, various methods of inventory control, preparation of business budgets and notes receivable and payable; provides experience in initiating and maintaining an accounting system and in analyzing, interpreting and synthesizing managerial problems using accounting information as a tool. **This course does not meet NCAA requirements for a math credit.**

Drone Engineering 1: Digital Electronics and Engineering Design and Presentation

Course: 5548 and 5559

Grade Placement: 11-12

Prerequisite: Principles of Applied Engineering, Algebra I, and Geometry; fee required

Credit: 1 each

Site: HCTC

This advanced course helps students learn the engineering skills to design robots for commercial and personal needs. Through the design process, students transfer advanced academic skills in using software and hardware to build prototypes and test their designs and may earn their Federal Aviation agency license as a commercial Small Unmanned Aerial System (sUAS) pilot. Students receive one math credit by taking Digital Electronics. **This course does not meet NCAA requirements for a math credit.**

College Prep Math**Course:** 1286**Grade Placement:** 12**Prerequisite:** Three years of high school mathematics courses including Algebra 2
(Contact your counselor prior to enrolling in this course.)**Credit:** 1

This course supports students in developing skills, strategies, and reasoning needed to succeed in mathematics, including communication and appropriate use of technology. Enrollment will be reserved for students requiring additional support for college math readiness, i.e. unsatisfactory math performance on TSI, SAT, or ACT. Topics include the following: numeracy/real number system; algebraic concepts, notation, and reasoning; quantitative relationships; mathematical models; problem solving; relations and functions; inequalities; algebraic expressions; and equations (with emphasis on linear and quadratic, but including absolute value, polynomial, radical and rational) **This course does not meet NCAA requirements for a math credit.**

SCIENCE

Course Name	Credits	GPA Level	Grade Levels	Prerequisites
Biology	1	1	9	None
Advanced Biology / GT	1	2	9	See suggested guidelines
Integrated Physics and Chemistry	1	1	9-10	Academic Advisement
Chemistry*	1	1	10-12	Biology and Algebra I
Advanced Chemistry / GT *	1	2	10-12	Biology and Algebra I
OnRamps Chemistry I* (TCCNS+: CHEM 1311, CHEM 1111)	1	2	10-12	Biology and Algebra I
OnRamps Chemistry II* (TCCNS+: CHEM 1312, CHEM 1112)	1	2	11-12	OnRamps Chemistry I (CH301 & CH104M) or AP Chemistry
Physics*	1	1	10-12	Algebra I, Completion or Concurrent Enrollment in Second Year of Math Recommended
Astronomy*	1	1	11-12	Biology and one Physical Science recommended
Aquatic Science*	1	1	11-12	Biology and Chemistry recommended
Environmental Systems*	1	1	11-12	Biology and one Physical Science recommended
AP Biology *	1	3	10-12	Biology and Chemistry May be taken in 9th grade - approval required
AP Chemistry *	1	3	11-12	Biology, Chemistry and Algebra II Recommended grade levels
AP Environmental Science *	1	3	11-12	Algebra I, Biology, and one other Physical Science recommended Recommended Grade Levels
AP Physics 1*	1	3	10-12	Geometry, and concurrent enrollment in Algebra II or equivalent, recommended grade levels
AP Physics 2*	1	3	11-12	AP Physics 1 or Physics and completion/concurrent enrollment in Precalculus or equivalent Recommended Grade Levels
Introduction to Robotics*	1	1	10-12	Principles of Applied Engineering, Algebra I, and Biology
Aerospace Engineering 1: Scientific Research and Design and Engineering Design and Problem-Solving Research*	2	1	11-12	Principles of Applied Engineering, Algebra II (recommended), Chemistry, Physics, Biology or IPC; fee required
Anatomy and Physiology*	1	1	11-12	Biology and second science credit
Pathophysiology*	1	1	11-12	Biology and Chemistry
Forensic Science* (take with HCTC course)	1	1	11-12	Biology, Chemistry, <u>and</u> Enrollment in other class held at HCTC

Forensic Science-Accelerated*	1	1	11-12	Biology, Chemistry, and ability to have two consecutive class periods
Advanced Animal Science* (spring semester)	1	1	11-12	Veterinary Medical Applications
Biomedical Research*	2	1	11-12	Principles of Health Science, Biology, Chemistry, Medical Terminology (Recommended)
Advanced Plant and Soil Science Dual Credit* (HALT 2323) course located at TCC Northwest	1	2	12	Greenhouse Operations/Agricultural Lab and Field Exp; MUST take Horticulture as co-requisite, Biology, IPC or Chemistry or Physics; TCC dual credit reqs; Transportation to TCC; availability in schedule for afternoon courses at TCC

*These are considered foundation advanced courses which can fulfill 3rd and 4th year Science requirements.

Level 1- no extra points to GPA

Level 2- 5 extra points to GPA

Level 3- 10 extra points to GPA

+TCCNS = Texas Common Course Numbering System

Suggested Guidelines for Advanced Placement Science

- Successful completion of science courses taken previously with an average of 80 or above
- Students wanting to take an AP course in a grade other than indicated on the table will need to seek teacher and counselor advisement
- Students encouraged to seek teacher advisement
- Student should have passed STAAR

These suggested guidelines are designed to aid the student in choosing the course in which he/she will be most successful.

SCIENCE RECOMMENDED SEQUENCE

HS Year 1	HS Year 2	HS Year 3	HS Year 4
Advanced Biology	Advanced Chemistry* OnRamps Chemistry* Physics or AP Physics 1*	Advanced Chemistry* OnRamps Chemistry* Physics or AP Physics 1 or 2*	Advanced Science* Additional Advanced Science*
Advanced Biology	Advanced Chemistry* OnRamps Chemistry* Physics or AP Physics 1*	Advanced Chemistry* OnRamps Chemistry* Physics or AP Physics 1 or 2*	Advanced Science*
Biology	Chemistry*	Physics*	Advanced Science*
IPC	Biology	Advanced Science*	Advanced Science*

Course enrollment is subject to meeting prerequisite requirements.

Biology

Course: 1310

Grade Placement: 9

Prerequisite: None

Credit: 1

Biology is the study of structure, growth, and function of the life systems of organisms. The study will encompass a variety of topics that include: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; ecosystems; and plants and the environment. Student investigations emphasize accurate observations, collection of data, data analysis, and the safe manipulation of laboratory apparatus and materials in the field and in the laboratory. *Biology students are required to pass the State of Texas Assessments of Academic Readiness (STAAR) end-of- course (EOC) Biology exam to meet part of the graduation requirements.*

Advanced Biology / GT

Course: 1315 / 1316

Grade Placement: 9

Prerequisite: None

Credit: 1

Biology is the study of structure, growth, and function of the life systems of organisms. The study will encompass a variety of topics that include: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; ecosystems; and plants and the environment. Student investigations emphasize accurate observations, collection of data, data analysis, and the safe manipulation of laboratory apparatus and materials in the field and in the laboratory. This course will have a greater emphasis on laboratory experiences, gathering and processing complex data and writing technical conclusions based on data. For more information on high school GT clustering, see page 7. *Biology students are required to pass the State of Texas Assessments of Academic Readiness (STAAR) end-of- course (EOC) Biology exam to meet part of the graduation requirements.*

Integrated Physics and Chemistry

Course: 1390

Grade Placement: 9-10

Prerequisite: Academic Advisement

Credit: 1

IPC is recommended for students who benefit from extra preparation to meet the rigors of physics and chemistry and integrates the two disciplines with a strong emphasis on calculation in the following topics: motion, waves, energy transformation, properties of matter, changes in matter, and solution chemistry. IPC does not qualify for the STEM endorsement. Based upon state HS graduation requirements, IPC must be taken prior to Chemistry and/or Physics. Campus advisement is strongly recommended.

Chemistry

Course: 1320

Grade Placement: 10-12

Prerequisite: Biology and Algebra I

Credit: 1

Chemistry is a study of the structure, composition, and behavior of matter. The course is a laboratory-oriented course that emphasizes the skills of gathering and analyzing both qualitative (observational) and quantitative (numerical) data. Students will cover nomenclature, chemical reactions, stoichiometry, the behavior of gases, atomic history and structure, chemical bonding, nuclear fission and fusion as well as acid-base theories. A conceptual approach will be coupled with mathematical skills necessary to solve fundamental chemistry problems. Students will investigate how chemistry is an integral part of our daily lives.

Advanced Chemistry / GT

Course: 1325 / 1326

Grade Placement: 10-12

Prerequisite: Biology and Algebra I

Credit: 1

Chemistry is a study of the structure, composition, and behavior of matter. The course is a laboratory-oriented course that emphasizes the skills of gathering and analyzing both qualitative (observational) and quantitative (numerical) data at an accelerated pace. An in-depth study of mathematical applications will be stressed and students will engage in higher level laboratory experiences, gathering and processing complex data and writing technical conclusions. Emphasis is placed on independent labs skills and critical thinking skills. For more information on high school GT clustering, see page 7. **Extra time is required on the part of Advanced students for class preparation, outside reading, and completion of assignments.**

OnRamps Chemistry I

Course: 1321 (Texas Common Course Numbering System: CHEM 1311, CHEM 1111)

Grade Placement:10-12

Prerequisite: Biology and Algebra I; fee required

Credit: 1

Principles of Chemistry I address the nature of matter, energy, chemical reactions, and chemical thermodynamics. Throughout the course, students learn to think like scientists by exploring the underlying theoretical foundations of chemistry, making intuitive arguments for how the world works, and supporting those arguments with quantitative measures. Students in the course will learn how to successfully study college level science by organizing their learning around mastery and ownership of materials. Introduction to Chemical Practices I, the course's lab component, provides an introduction to the techniques of modern experimental chemistry, and its designed to instill basic laboratory and analytical skills. Students will experience curriculum designed by the faculty at The University of Texas at Austin and have the opportunity to earn college credit. Students can earn four hours of college credit with feedback and assessment provided by UT course and staff.

Please note there is a fee associated with this course.

OnRamps Chemistry II

Course: 1322 (Texas Common Course Numbering System: CHEM 1312, CHEM 1112)

Grade Placement:11-12

Prerequisite: OnRamps Chemistry I or AP Chemistry; fee required

Credit: 1

Principles of Chemistry II extends the study of thermodynamics taught in OnRamps Chemistry I to the development of chemical equilibria and kinetics with applications to water chemistry and electrochemistry. In addition, students will gain insight in the workings of the material world through introduction to nuclear chemistry, battery technology, polymer chemistry and applications in organic chemistry and biochemistry. Students will experience curriculum designed by the faculty at The University of Texas at Austin and have the opportunity to earn college credit. Students can earn four hours of college credit with feedback and assessment provided by UT course and staff.

Please note there is a fee associated with this course.

Physics

Course: 1330

Grade Placement: 10-12

Prerequisite: Algebra I, Completion or Concurrent Enrollment in Second Year of Math Recommended

Credit: 1

Physics is the study of matter and energy and their interactions. The study will encompass fundamental concepts in the laws of motion, forces, energy and momentum, thermodynamics, waves, and nuclear phenomena. Student investigations emphasize accurate observations, collection of data, data analysis, and safe manipulation of laboratory apparatus. Students will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with classmates, and develop critical thinking skills.

Astronomy

Course: 1327

Grade Placement: 11-12

Prerequisite: Biology and one Physical Science Recommended

Credit: 1

Students will conduct laboratory and field investigations, use scientific processes, and make informed decisions using critical thinking and scientific problem solving. Students will study the following topics: astronomy in civilization, patterns and objects in the sky, our place in space, the moon, reasons for the season, planets, the sun, stars, galaxies, cosmology and space exploration. Students who successfully complete Astronomy will acquire knowledge within a conceptual framework, conduct observations of the sky, work collaboratively, and develop critical-thinking skills. Students will have the opportunity to participate in night-time or early morning observations.

Aquatic Science

Course: 1385

Grade Placement: 11-12

Prerequisite: Biology and Chemistry Recommended

Credit: 1

Aquatic Science provides an understanding and awareness of fresh and salt water systems. Topics of study include aquatic systems and their habitats, cycles within an aquatic environment and adaptations of aquatic organisms, watersheds, geological phenomena and fluid dynamics. Students conduct field and laboratory investigations, gather complex quantitative and qualitative data, and make conclusions based on data analysis. Emphasis is placed on independent lab skills and critical thinking skills. Students study a variety of current topics that revolve around societal questions and how humans have influenced aquatic environments.

Environmental Systems

Course: 1395

Grade Placement: 11-12

Prerequisite: Biology & one Physical Science Recommended

Credit: 1

Environmental Systems is a focus on the study of the environment with emphasis on ecology and natural resources. Topics include local environmental systems, source and energy flow, relationship between carrying capacity and changes in population and ecosystems, and environmental changes. Students will study a variety of current topics that revolve around people and society, including cultural perspectives and balance of nature.

AP Biology

Course: 1345

Grade Placement: 10-12 Recommended; 9th grade with prior teacher and counselor approval

Prerequisite: Biology and Chemistry

Credit: 1

The AP Biology course shifts from a traditional “content coverage” model of instruction to one that focuses on enduring, conceptual understandings and the content that supports them. This enables students to spend less time on factual recall and more time on inquiry-based learning of essential concepts and helps them develop the reasoning skills necessary to engage in the science practices used throughout their study of AP Biology. Students develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. The AP Biology course is equivalent to a two-semester college introductory biology course. This course may be taken by 9th grade students, approval is required. ***Extra time is required on the part of AP students for class preparation, outside reading, and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses. Students who take Biology AP are expected to take the Advanced Placement Exam in the spring.***

AP Chemistry

Course: 1355

Grade Placement: 11-12 Recommended

Prerequisite: Biology, Chemistry, and Algebra II

Credit: 1

The AP Chemistry course focuses on a model of instruction which promotes enduring, conceptual understandings and the content that supports them. This enables students to spend less time on factual recall and more time on inquiry-based learning of essential concepts and helps them develop the reasoning skills necessary to engage in the science practices used throughout their study of AP Chemistry. Students develop advanced inquiry and reasoning skills, such as designing a plan for collecting data, analyzing data, applying mathematical routines, and connecting concepts in and across domains. The key concepts and related content that define the revised AP Chemistry course and exam are organized around a few underlying principles which encompass the core scientific principles, theories, and processes governing chemical systems. The AP Chemistry course is equivalent to a two-semester college level chemistry course. ***Extra time is required on the part of AP students for class preparation, outside reading, and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses. Students who take Chemistry AP are expected to take the Advanced Placement Exam in the spring.***

AP Physics 1

Course: 1363

Grade Placement: 10-12 Recommended

Prerequisite: Geometry, and concurrent enrollment in Algebra II or equivalent

Credit: 1

AP Physics 1 is equivalent to a first semester college course in Algebra-based physics. It is designed to prepare students to take the AP Physics 1 exam. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It introduces electric circuits. The content of the course will meet College Board Standards. In-depth descriptive and experimental laboratory will be utilized throughout this course. ***Extra time is required on the part of the AP Students for class preparation, outside reading, and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses. Students are expected to take the Advanced Placement Exam in the spring.***

AP Physics 2

Course: 1364

Grade Placement: 11-12 Recommended

Prerequisite: AP Physics 1 or Physics, and completion of/or concurrent enrollment in Precalculus or equivalent

Credit: 1

AP Physics 2 is equivalent to a second-semester college course in Algebra-based physics. It is designed to prepare students to take the AP physics exam. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics. The content of this course will meet College Board Standards. A variety of in-depth laboratory activities will be utilized throughout this course. ***Extra time is required on the part of AP students for class preparation, outside reading, and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most second semester college physics courses. Students are expected to take the Advanced Placement Exam in the spring.***

AP Environmental Science

Course: 1305

Grade Placement: 11-12 Recommended

Prerequisite: Algebra I, Biology & one other Physical Science Recommended.

Credit: 1

The AP Environmental Science course is interdisciplinary and will integrate the sciences including biology, chemistry, and earth science with the social sciences to analyze and predict contemporary environmental issues. The course will provide students with scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. This course prepares the student to take the Advanced Placement exam. ***Extra time is required on the part of AP students for class preparation, outside reading, and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses. Students are expected to take the Advanced Placement Exam in the spring.***

Introduction to Robotics

Course: 5549

Grade Placement: 10-12

Prerequisite: Principles of Applied Engineering, Algebra 1, Biology

Credit: 1

This course exposes students to some of the major concepts and technologies that they will encounter as they investigate engineering, robotic, and high-tech careers. Students will employ science, technology, engineering, and mathematical concepts in the solution of real-world challenging situations. VEX EDR and multiple coding styles and languages will be utilized in this course. This course satisfies a science credit for students. (Engineering Science)

Aerospace Engineering 1: Scientific Research and Design & Engineering Design and Problem Solving

Course: 5921/5922

Grade Placement: 11-12

Prerequisite: Principles of Applied Engineering, Algebra II (rec), Chemistry, Physics, Biology or IPC; fee required

Credit: 1 each

Site: HCTC

Students learn the engineering required for current aerospace needs. Students may design, build and operate unmanned aerial vehicles such as hypersonic boost gliders, high performance rockets reaching up to 5 miles, altitude at 970mph, and have the opportunity to earn their Federal Aviation Agency license as a commercial Small Unmanned Aerial System (sUAS) pilot.

Students receive one credit of Scientific Research and Design and one credit of Engineering Design and Problem Solving (may fulfill 4th science credit).

Anatomy and Physiology

Course: 1371

Grade Placement: 11-12

Prerequisite: Biology and second science credit

Credit: 1

Site: BHS, SHS, CTHS

Anatomy and Physiology is a comprehensive study of the structures and functions of the human body. This course will include dissections and the study of the organization of organs and organ systems. Students will utilize critical thinking skills and scientific problem solving as they conduct lab investigations. This course fulfills one of the graduation science credits.

Pathophysiology

Course: 5851

Grade Placement: 11-12

Prerequisite: Biology and Chemistry

Credit: 1

Site: BHS, SHS, CTHS

In this course students conduct laboratory investigations and fieldwork, use scientific methods and make informed decisions using critical thinking and problem solving. Students study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of diseases. Students will differentiate between normal and abnormal physiology. This course fulfills one of the graduation science credits.

Forensic Science (taken w/HCTC course)

Course: 5912

Grade Placement: 11-12

Prerequisite: Biology, Chemistry, and enrollment in other class at HCTC

Credit: 1

Site: HCTC

Forensic Science is a course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection and scientific procedures used to solve crimes. (Only students that will be at the HCTC for 2 periods may take this course.) Students may fulfill their 4th science requirement by taking Forensic Science.

Forensic Science-Accelerated

Course: 5911

Grade Placement: 11-12

Prerequisite: Biology and Chemistry

Credit: 1 (two consecutive class periods)

Site: HCTC

Forensic Science is a course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection and scientific procedures used to solve crimes. **This course meets for 2 periods a day. Students will complete the yearlong course in one semester.** Students may fulfill their 4th science requirement by taking Forensic Science.

Advanced Animal Science

Course: 5242

Grade Placement: 11-12

Prerequisite: Veterinary Medical Applications (fall semester)

Credit: 1

Site: HCTC

This course is designed to examine the interrelatedness of human, scientific, and technological dimensions of livestock production. Students will learn to apply scientific and technological aspects of animal science through field and laboratory experiences. This course may fulfill one of the graduation science credits. **This course does not meet NCAA requirements for a science credit.**

Biomedical Research

Course: 5842 and 5841

Grade Placement: 11-12

Prerequisite: Principles of Health Science, Biology, Chemistry; Medical Terminology (recommended)

Credit: 2

Site: HCTC

Students will apply advanced academic knowledge and skill to the emerging fields within biomedical research across multiple disciplines. Students will conduct laboratory investigations, use scientific methods during investigations, and make data informed decisions. Students will study a variety of topics related to cells and their functions while exploring the microbial world. Students receive one credit of medical microbiology and one credit of Biotechnology I. This course may fulfill two science credits. **This course does not meet NCAA requirements for a science credit.**

Advanced Plant and Soil

Course: 5262 (TCC Spring course- HALT 2323)

Grade Placement: 12

Prerequisite: Greenhouse Operations/ Agricultural Lab and Field Experience and TCC dual credit enrollment;

Horticulture must be a co-requisite. Students will need to have availability in their schedule for afternoon classes at TCC Northwest. Students must provide their own transportation to TCC.

Credit: 1 and TCC course credit

Site: TCC Northwest

This course is designed to prepare students for careers in the plant and soil sciences. Students must attain academic skills and knowledge, and acquire technical knowledge and skills related to plant and soil science in the workplace. Upon successful completion of the following TCC dual credit courses: Greenhouse Operations/ Agricultural Lab and Field Experience, Horticulture, and Advanced Plant and Soil, students will be qualified through TCC to set for the Texas Department of Agriculture Pesticide Application License. This course may fulfill one of the graduation science credits. **This course does not meet NCAA requirements for a science credit.**

SOCIAL STUDIES

Course Name	Credits	GPA Levels	Grade Levels	Prerequisites
World Geography	1	1	9	None
Advanced World Geography	1	2	9	See Suggested Guidelines
Human Geography AP / GT	1	3	9	See Suggested Guidelines
World History	1	1	10	None
World History AP / GT	1	3	10	See Suggested Guidelines
United States History (Since 1877)	1	1	11	None
United States History AP / GT	1	3	11	See Suggested Guidelines
United States History Dual Credit (HIST 1301, HIST 1302)	1	2	11	TCC Admission Standards
United States Government	.5	1	12	None
United States Government and Politics AP	.5	3	12	See Suggested Guidelines
United States Government Dual Credit (GOVT 2305)	.5	2	12	TCC Admission Standards
Economics	.5	1	12	None
Personal Financial Literacy & Economics	.5	1	12	None
Economics AP (Macroeconomics)	.5	3	12	See Suggested Guidelines
Principles of Economics Dual Credit (ECON 2301)	.5	2	12	TCC Admission Standards
European History AP	1	3	10-12	See Suggested Guidelines
Psychology	.5	1	11-12	None (Course Contains Mature Content)
Psychology AP/Social Studies Research Methods	1	3	11-12	See Suggested Guidelines
Psychology Dual Credit (PSYC 2301)	.5	2	11-12	Course not offered on EMS ISD campuses. Must be taken virtual or at a TCC Campus.
Sociology	.5	1	11-12	None
Sociology Dual Credit (SOCL 1301)	.5	2	11-12	Course not offered on EMS ISD campuses. Must be taken virtual or at a TCC Campus.
Special Topics in Social Studies I & II	.5	1	12	See Guidelines
Personal Financial Literacy	.5	1	10-12	None

Level 1- no extra points to GPA

Level 2- 5 extra points to GPA

Level 3- 10 Extra Points to GPA

Suggested Guidelines for Advanced and Advanced Placement Social Studies

- Successful completion of social studies courses taken previously with an average of 80 or above
- Students encouraged to seek teacher advisement
- Student has passed STAAR

These suggested guidelines are designed to aid the student in choosing the course in which he/she will be most successful.

SOCIAL STUDIES RECOMMENDED SEQUENCE

HS Year 1	HS Year 2	HS Year 3	HS Year 4
World Geography Advanced World Geography	World History AP World History	U.S. History AP U.S. History Dual Credit U.S. History	Government/Economics AP Govt./AP Eco. Dual Credit Govt./Eco.
AP Human Geography	World History AP World History	U.S. History AP U.S. History Dual Credit U.S. History	Government/Economics AP Govt./AP Eco. Dual Credit Govt./Eco.

Course enrollment is subject to meeting prerequisite requirements.

World Geography

Course: 1410

Grade Placement: 9

Prerequisite: None

Credit: 1

In World Geography Studies, students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present with emphasis on contemporary issues. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major landforms, climates, and ecosystems and their interrelationships; the political, economic, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of the world population; relationships among people, places, and environments; and the concept of region. Students analyze how location affects economic activities in different economic systems. Students identify the processes that influence political divisions of the planet and analyze how different points of view affect the development of public policies. Students compare how components of culture shape the characteristics of regions and analyze the impact of technology and human modifications on the physical environment. Students use problem-solving and decision-making skills to ask and answer geographic questions. *World Geography students will complete the required instruction on proper interaction with peace officers in accordance with Title 19 of the Texas Administrative Code (TAC) §74.5 to meet part of the graduation requirements.*

Advanced World Geography

Course: 1415

Grade Placement: 9

Prerequisite: See Suggested Guidelines at beginning of this Social Studies Section

Credit: 1

In Advanced World Geography Studies, students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography with greater depth and complexity. Students describe the influence of geography on events of the past and present with emphasis on contemporary issues. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major landforms, climates, and ecosystems and their interrelationships; the political, economic, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of the world population; relationships among people, places, and environments; and the concept of region. Students analyze how location affects economic activities in different economic systems. Students identify the processes that influence political divisions of the planet and analyze how different points of view affect the development of public policies. Students compare how components of culture shape the characteristics of regions and analyze

the impact of technology and human modifications on the physical environment. This course emphasizes the use of critical-thinking, problem-solving, and decision-making skills to ask and answer geographic questions. Students will read and interpret primary and secondary source documents, sharpen writing and research skills and/or to develop creative projects for topics covered. This course assists in preparing students for the challenges offered by Advanced Academics program through sustained habits necessary for success in a university/college. Advanced World Geography students will complete the required instruction on proper interaction with peace officers in accordance with Title 19 of the Texas Administrative Code (TAC) §74.5 to meet part of the graduation requirements.

Human Geography AP / GT

Course: 1475 / 1476

Grade Placement: 9

Prerequisite: See Suggested Guidelines at beginning of this Social Studies Section

Credit: 1

Human Geography AP meets the World Geography state graduation requirement and introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. **Extra time is required on the part of AP students for class preparation, outside reading, and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses. Students who take Human Geography AP are expected to take the Advanced Placement Exam in the spring.** For more information on high school GT clustering, see page 7. AP Human Geography students will complete the required instruction on proper interaction with peace officers in accordance with Title 19 of the Texas Administrative Code (TAC) §74.5 to meet part of the graduation requirements.

World History

Course: 1420

Grade Placement: 10

Prerequisite: None

Credit: 1

World History Studies is a survey of the history of humankind. Due to the expanse of world history and the time limitations of the school year, the scope of this course should focus on "essential" concepts and skills that can be applied to various eras, events, and people within the standards for this course. The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilization as well as in civilizations in other parts of the world. Students evaluate the causes and effects of political and economic imperialism and of major political revolutions since the 17th century. Students examine the impact of geographic factors on major historic events and identify the historic origins of contemporary economic systems. Students analyze the process by which constitutional governments evolved as well as the ideas from historic documents that influenced that process. Students trace the historical development of important legal and political concepts. Students examine the history and impact of major religious and philosophical traditions. Students analyze the connections between major developments in science and technology and the growth of industrial economies, and they use the process of historical inquiry to research, interpret, and use multiple sources of evidence.

World History AP / GT

Course: 1425 / 1426

Grade Placement: 10

Prerequisite: See Suggested Guidelines at beginning of this Social Studies Section

Credit: 1

World History AP meets the World History state graduation requirement and requires students to study the cultural, economic, political, and social developments that have shaped the world from c. 1200 CE to present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course provides five themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures. **Extra time is required on the part of AP students for class preparation, outside reading, and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most college introductory**

courses. Students who take World History AP are expected to take the Advanced Placement Exam in the spring. For more information on high school GT clustering, see page 7.

United States History (Since 1877)

Course: 1430

Grade Placement: 11

Prerequisite: None

Credit: 1

In United States History Studies Since 1877, which is the second part of a two-year study that begins in Grade 8, students study the history of the United States from 1877 to the present. The course content is based on the founding documents of the U.S. government, which provide a framework for its heritage. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies, and reform movements, including civil rights. Students examine the impact of geographic factors on major events and eras and analyze their causes and effects. Students examine the impact of constitutional issues on American society, evaluate the dynamic relationship of the three branches of the federal government, and analyze efforts to expand the democratic process. Students describe the relationship between the arts and popular culture and the times during which they were created. Students analyze the impact of technological innovations on American life. Students use critical-thinking skills and a variety of primary and secondary source material to explain and apply different methods that historians use to understand and interpret the past, including multiple points of view and historical context. *U.S. History students are required to pass the State of Texas Assessments of Academic Readiness (STAAR) end-of-course (EOC) U.S. History exam to meet part of the graduation requirements.*

United States History AP / GT

Course: 1435 / 1437

Grade Placement: 11

Prerequisite: See Suggested Guidelines at beginning of this Social Studies Section

Credit: 1

United States History AP meets the United States History state graduation requirement and requires students to investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; migration and settlement; politics and power; work, exchange, and technology; America in the world; geography and the environment; and culture and society. **Extra time is required on the part of AP students for class preparation, outside reading, and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses. Students who take U.S. History AP are expected to take the Advanced Placement Exam in the spring.** For more information on high school GT clustering, see page 7. *U.S. History AP students are required to pass the State of Texas Assessments of Academic Readiness (STAAR) end-of-course (EOC) U.S. History exam to meet part of the graduation requirements.*

United States History Dual Credit

Course: 1433 (HIST 1301, HIST 1302)

Grade Placement: 11

Prerequisite: TCC Admissions Standards

Credit: 1

Students will receive both high school and college credit upon successful completion of the class. This is a college level class, which is designed for highly motivated students who are prepared to take a college course in high school. The first semester of this course traces the development of the American nation from its roots to the close of Reconstruction. The second semester traces the development of the American nation from Reconstruction to the present. *U.S. History Dual Credit students are required to pass the State of Texas Assessments of Academic Readiness (STAAR) end-of-course (EOC) U.S. History exam to meet part of the graduation requirements.*

Students must register and pay for the courses and books through Tarrant County College, Northwest Campus.

United States Government

Course: 1440

Grade Placement: 12

Prerequisite: None

Credit: .5

In United States Government, the focus is on the principles and beliefs upon which the United States was founded and, on the structure, functions, and powers of government at the national, state, and local levels. This course is the culmination of the civic and governmental content and concepts studied from Kindergarten through required secondary courses. Students learn major political ideas and forms of government in history. A significant focus of the course is on the U.S. Constitution, its underlying principles and ideas, and the form of government it created. Students analyze major concepts of republicanism, federalism, checks and balances, separation of powers, popular sovereignty, and individual rights and compare the U.S. system of government with other political systems. Students identify the role of government in the U.S. free enterprise system and examine the strategic importance of places to the United States. Students analyze the impact of individuals, political parties, interest groups, and the media on the American political system, evaluate the importance of voluntary individual participation in a constitutional republic, and analyze the rights guaranteed by the U.S. Constitution. Students examine the relationship between governmental policies and the culture of the United States. Students identify examples of government policies that encourage scientific research and use critical-thinking skills to create a product on a contemporary government issue.

United States Government and Politics AP

Course: 1445

Grade Placement: 12

Prerequisite: See Suggested Guidelines at beginning of this Social Studies Section

Credit: .5

United States Government and Politics AP meets the United States Government state graduation requirement and introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning assess causes and consequences of political events and interpret data to develop evidence-based arguments. ***Extra time is required on the part of AP students for class preparation, outside reading, and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses. Students who take U.S. Government and Politics AP are expected to take the Advanced Placement Exam in the spring.***

United States Government Dual Credit

Course: 1443 (GOVT 2305)

Grade Placement: 12

Prerequisite: TCC Admissions Standards

Credit: .5

Students will receive both high school and college credit upon successful completion of the class. This is a college level class, which is designed for highly motivated students who are prepared to take a college course in high school. The course teaches United States constitutional and governmental systems.

Students must register and pay for the courses and books through Tarrant County College, Northwest Campus.

Economics with Emphasis on the Free Enterprise System and Its Benefits

Course: 1460

Grade Placement: 12

Prerequisite: None

Credit: .5

Economics with Emphasis on the Free Enterprise System and Its Benefits is the culmination of the economic content and concepts studied from Kindergarten through required secondary courses. The focus is on the basic principles concerning production, consumption, and distribution of goods and services (the problem of scarcity) in the United States and a comparison with those in other countries around the world. Students analyze the interaction of supply, demand, and price. Students will investigate the concepts of specialization and international trade, economic growth, key economic measurements, and monetary and fiscal policy. Students will study the roles of the Federal Reserve System and other financial institutions, government, and businesses in a free enterprise system. Types of business ownership and market structures are discussed. The course also incorporates instruction in personal financial literacy. Students apply critical-thinking skills using economic concepts to evaluate the costs and benefits of

economic issues.

Personal Financial Literacy and Economics

Course: 1461

Grade Placement: 12

Prerequisite: None

Credit: .5

Economics with Emphasis on the Free Enterprise System and Its Benefits/Personal Financial Literacy is the culmination of the economic content and concepts studied from Kindergarten through required secondary courses. The focus is on the basic principles concerning production, consumption, and distribution of goods and services (the problem of scarcity) in the United States and a comparison with those in other countries around the world. Students analyze the interaction of supply, demand, and price. Students will investigate the concepts of specialization and international trade, economic growth, key economic measurements, and monetary and fiscal policy. Students will study the roles of the Federal Reserve System and other financial institutions, government, and businesses in a free enterprise system. Types of business ownership and market structures are discussed. The course also incorporates instruction in personal financial literacy. Students apply critical-thinking skills using economic concepts to evaluate the costs and benefits of economic issues. The course also embeds Personal Financial Literacy. Personal Financial Literacy will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility. Personal Financial Literacy requires students to apply critical-thinking and problem-solving skills to analyze decisions involving earning and spending, saving and investing, credit and borrowing, insuring and protecting, and college and postsecondary education and training. There are many references to conducting a cost-benefit analysis for spending and investing decisions. Students evaluate the necessity of the purchase, the quality or value of the purchase or investment compared to other alternatives, and the total cost of acquisition, particularly in the context of financing options and see growth on investments and interest on debt and how they affect the ability to build wealth over time.

Economics AP (Macroeconomics)

Course: 1465

Grade Placement: 12

Prerequisite: See Suggested Guidelines at beginning of this Social Studies Section

Credit: .5

Economics AP (Macroeconomics) meets the Economics state graduation requirement and focuses on the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination; it also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts.

Extra time is required on the part of AP students for class preparation, outside reading, and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses. Students who take Economics AP are expected to take the Advanced Placement Exam in the spring.

Principles of Macroeconomics Dual Credit

Course: 1463 (ECON 2301)

Grade Placement: 12

Prerequisite: TCC Admissions Standards

Credit: .5

Students will receive both high school and college credit upon successful completion of the class. This is a college level class, which is designed for highly motivated students who are prepared to take a college course in high school. This course is taught with an emphasis on the U.S. economy, the economizing problem, demand-supply theory, national income accounting, business fluctuations, fiscal policy, and monetary policy.

Students must register and pay for the courses and books through Tarrant County College, Northwest Campus.

The following courses are ELECTIVES offered in social studies. They do NOT substitute for the required credit in social studies.

European History AP

Course: 1455

Grade Placement: 10-12

Prerequisite: See Suggested Guidelines at beginning of this Social Studies Section

Credit: 1

European History AP requires students to investigate significant events, individuals, developments, and processes in four historical periods from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical comparisons; and utilizing reasoning about contextualization, causation, and continuity and change over time. The course also provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world; poverty and prosperity; objective knowledge and subjective visions; states and other institutions of power; individual and society; and national and European identity. ***Extra time is required on the part of AP students for class preparation, outside reading, and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses. Students who take European History AP are expected to take the Advanced Placement Exam in the spring.***

Psychology

Course: 1480

Grade Placement: 11-12

Prerequisite: None (Course contains mature content)

Credit: .5

In Psychology, an elective course, students study the science of behavior and mental processes. Students examine the full scope of the science of psychology such as the historical framework, methodologies, human development, motivation, emotion, sensation, perception, personality development, cognition, learning, intelligence, biological foundations, mental health, and social psychology.

Psychology AP/Social Studies Research Methods

Course: 1485/1495

Grade Placement: 11-12

Prerequisite: See Suggested Guidelines at beginning of this Social Studies Section

Credit: 1

Psychology AP introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, evaluate claims and evidence, and effectively communicate ideas. ***Social Studies Research Methods must be taken the fall semester prior to Psychology AP. Extra time is required on the part of AP students for class preparation, outside reading, and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses. Students who take Psychology AP are expected to take the Advanced Placement Exam in the spring.***

Sociology

Course: 1490

Grade Placement: 11-12

Prerequisite: None

Credit: .5

Sociology, an elective course, is an introductory study in social behavior and organization of human society. This course will describe the development of the field as a social science by identifying methods and strategies of research leading to an understanding of how the individual relates to society and the ever changing world. Students will also learn the importance and role of culture, social structure, socialization, and social change in today's society.

Special Topics in Social Studies I / II: U.S. History**Course:** 1498 / 1499**Grade Placement:** 12**Prerequisite:** Level I performance on the U. S. History EOC**Credit:** .5 per course

In Special Topics in Social Studies I (U.S. History), students are provided the opportunity to develop a greater understanding of the historic, political, geographic, multicultural, and social forces that have shaped their lives and the world in which they live. Students will use social science knowledge and skills to engage in rational and logical analysis of complex problems using a variety of approaches, while recognizing and appreciating diverse human perspectives. *U.S. History students are required to pass the State of Texas Assessments of Academic Readiness (STAAR) end-of-course (EOC) U.S. History exam to meet part of the graduation requirements.*

Personal Financial Literacy**Course:** 1466**Grade Placement:** 10-12**Prerequisite:** None**Credit:** .5

Personal Financial Literacy will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility. Personal Financial Literacy requires students to apply critical-thinking and problem-solving skills to analyze decisions involving earning and spending, saving and investing, credit and borrowing, insuring and protecting, and college and postsecondary education and training. There are many references to conducting a cost-benefit analysis for spending and investing decisions. Students evaluate the necessity of the purchase, the quality or value of the purchase or investment compared to other alternatives, and the total cost of acquisition, particularly in the context of financing options and see growth on investments and interest on debt and how they affect the ability to build wealth over time.

SPECIAL EDUCATION COURSE OFFERINGS

The following Special Education Courses align with the High School Foundation Graduation Program. All students receiving special education services will have access to the general curriculum and to the Texas Essential Knowledge and Skills (TEKS). Curriculum may be accommodated, Basic, or reflect prerequisite skills (alternate standards) based upon the individual needs of the student as determined by the Admission, Review, and Dismissal committee. All special education courses taken earn credits toward meeting state requirements for high school completion.

4 YEAR BASIC COURSE SEQUENCE				
Subject Area	Freshman	Sophomore	Junior	Senior
Basic English*	English I	English II	English III	English IV
Basic Math*	Algebra I	Geometry	Algebraic Reasoning or Math Models	Algebra II
Basic Science**	IPC	Biology	Advanced Science	Advanced Science
Basic Social Studies**	World Geography	World History	US History	Government/ Economics
Fine Arts	One credit of Fine Arts			
World Language	Two credits of the same world language or, substitutions may include two credits from Computer Science I, II, III, or other allowable substitutions as allowed by 19 TAC §74.11 and determined by the ARD committee.			
Electives	All students receiving Basic instruction in a core academic area* have access to all general education electives			
Basic Electives	Career Preparation Basic is taught by a SPED teacher.		Career Preparation I (VAC)	Career Preparation II (VAC)

****Courses offered as both resource and co-teach***

*****Courses offered as co-teach only (based upon ARD committee decision)***

ENGLISH

English I Basic

Course: 1018

Grade Placement: 9

Prerequisite: ARD decision

Credit: 1

This course uses English I content to meet the individual learning requirements of students as determined by the ARD committee. Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. Students will read and write daily. Students read extensively in multiple genres, such as stories, dramas, novels, and poetry from world literature. Students learn literary forms and terms and interpret the possible influences of the historical context on a literary work. Rigorous writing instruction emphasizes organizing logical arguments, theses, and evidence. Writing instruction emphasizes sentence structure, paragraph development and development of comprehensive papers with focus on argument, research and description. Students will revise and edit their writing as part of the writing process. Composition practice is coordinated with guided reading of fiction, nonfiction, drama and poetry. The course will focus on critical thinking skills, literary analysis and the development of writing styles. Some variation in course content/emphasis may occur depending on the individual learning needs of the student. English I students are required to pass the State of Texas Assessments of Academic Readiness (STAAR) end-of-course (EOC) exam to meet part of the graduation requirements.

English II Basic**Course:** 1028**Grade Placement:** 10**Prerequisite:** English I, ARD decision**Credit:** 1

This course uses English II content to meet the individual learning requirements of students as determined by the ARD committee. Students will read and write daily. Students read extensively in multiple genres, such as stories, dramas, novels, and poetry, from world literature; learn literary forms and terms; and interpret the possible influences of the historical context on a literary work. A writing emphasis is placed on argumentative forms of writing such as logical arguments, expressions of opinion, and personal forms of writing (i.e., response to literature, a reflective essay, or an autobiographical narrative). Composition practice is coordinated with guided reading of fiction, nonfiction, drama, and poetry. Students will revise and edit their writing as part of the writing process. The course will focus on critical thinking skills, literary analysis, and development of writing styles. Some variation in course content/emphasis may occur depending on the individual needs of the student. English II students are required to pass the State of Texas Assessments of Academic Readiness (STAAR) end-of-course (EOC) exam to meet part of the graduation requirements.

English III Basic**Course:** 1038**Grade Placement:** 11**Prerequisite:** English I & II, ARD decision**Credit:** 1

This course uses English III content to meet the individual learning requirements of students as determined by the ARD committee. Students will read and write daily. Students read extensively in multiple genres from American and world literature, learn literary forms and terms, and interpret the possible influences of the historical context on a literary work. Students write in a variety of forms, including informational, personal, literary, and argumentative texts. Students also write résumés, college and career essays, correspondence, and engage in research while revising and editing their drafts for clarity and the correct use of the conventions and mechanics of written English as part of the writing process. Students will engage in SAT-style practice and assessments to improve their reading, proofreading, writing, and language skills. Some variation in course content/emphasis may occur depending on the individual learning needs of the student.

English IV Basic**Course:** 1048**Grade Placement:** 12**Prerequisite:** English I, II, III, ARD decision**Credit:** 1

This course uses English IV content to meet the individual learning requirements of students as determined by the ARD committee. Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. Students will read and write daily. Intense instruction emphasizes an in-depth study of British and world literature. Composition work consists of a variety of forms with informational, argumentation, personal, literary, research, and business writing. Students read extensively in multiple genres from British literature and world literature, learn literary forms and terms, and interpret the possible influences of the historical context on a literary work. Students use a style guide to revise and edit their papers for clarity and the correct use of the conventions and mechanics of written English. Students will engage in TSI-style practice and assessments to improve their reading, proofreading, writing, and language skills. Some variation in course content/emphasis may occur depending on the individual needs of the student.

MATHEMATICS

Algebra I Basic

Course: 1218

Grade Placement: 9

Prerequisite: ARD decision

Credit: 1

This course uses Algebra I content to meet the individual learning requirements of students as determined by the ARD committee. Students will build on the knowledge and skills for mathematics in Grades 6-8, which provide a foundation in linear relationships, number and operations, and proportionality. Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology to collect and explore data and analyze statistical relationships. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables and will create new functions through transformations. Some variation in course content/emphasis may occur depending on the individual needs of the student. Algebra 1 students are required to pass the State of Texas Assessments of Academic Readiness (STAAR) end-of-course (EOC) Algebra 1 exam to meet part of the graduation requirements.

Geometry Basic

Course: 1228

Grade Placement: 10

Prerequisite: Algebra I, ARD decision

Credit: 1

This course uses Geometry curriculum to meet the individual learning requirements of students as determined by the ARD committee. In Geometry Basic, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I to strengthen their mathematical reasoning skills in geometric contexts. Within the course, students will begin to focus on more precise terminology, symbolic representations, and the development of proofs. Students will explore concepts covering coordinate and transformational geometry; logical argument and constructions; proof and congruence; similarity, proof, and trigonometry; two- and three-dimensional figures; circles; and probability. Students will connect previous knowledge from Algebra I, create formal constructions using a straight edge and compass, use deductive reasoning to justify, prove and apply theorems about geometric figures, use their proportional reasoning skills to prove and apply theorems and solve problems, and apply theorems about circles to determine relationships between special segments and angles in circles. Though this course is primarily Euclidean geometry, students should complete the course with an understanding that non-Euclidean geometries exist. Due to the emphasis of probability and statistics in the college and career readiness standards, standards dealing with probability have been added to the geometry curriculum to ensure students have proper exposure to these topics before pursuing post-secondary education. Some variation in course content/emphasis may occur depending on the individual needs of the student.

Math Models with Applications Basic

Course: 1241

Grade Placement: 11

Prerequisite: Algebra I and Geometry, ARD decision

Credit: 1

Mathematical Models with Applications Basic is designed to build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I. This mathematics course provides a path for students to succeed in Algebra II and prepares them for various post-secondary choices. Students learn to apply mathematics through experiences in personal finance, science, engineering, fine arts, and social sciences. Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, model information, solve problems, and communicate solutions. Students will select from tools such as physical objects; manipulatives; technology, including graphing calculators, data collection devices, and computers; and paper and pencil and from methods such as algebraic techniques, geometric reasoning, patterns, and mental math to solve problems. Some variation in course content/emphasis may occur depending on the individual needs of the student.

Algebraic Reasoning Basic

Course: 1214

Grade Placement: 11

Prerequisite: Algebra I and Geometry, ARD decision

Credit: 1.0

Algebraic Reasoning Basic continues the development of mathematical reasoning related to algebraic understandings and processes and deepens the foundation for studies in subsequent math courses through Basic and accommodated curriculum to meet the individual learning requirements of students as determined by the ARD committee. Students will build on knowledge and skills for mathematics through Algebra I. Algebraic Reasoning involves preparation for success in Algebra II as the basic for all units is the study of linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value and logarithmic functions. This course is for those students that have not completed Algebra II, nor have they chosen a path to AP or dual-credit coursework in high school. Some variation in course content/emphasis may occur depending on the individual needs of the student.

Algebra II Basic

Course: 1238

Grade Placement: 12

Prerequisite: Algebra I, Geometry, ARD decision

Credit: 1

In Algebra II Basic, students build on the knowledge and skills for mathematics acquired in Kindergarten-Grade 8 and Algebra I. Through Basic and accommodated curriculum to meet the individual learning requirements of students as determined by the ARD committee, students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Students will study logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Students will connect functions to their inverses and associated equations and solutions in both mathematical and real-world situations. In addition, students will extend their knowledge of data analysis and numeric and algebraic methods. Some variation in course content/emphasis may occur depending on the individual needs of the student.

SCIENCE

Biology Basic (Co-teach/Itinerant)

Course: 1310C

Grade Placement: 9-10

Prerequisite: ARD decision

Credit: 1

Biology Basic is the study of structure, growth, and function of the life systems of organisms. Through Basic and accommodated curriculum to meet the individual learning requirements of students as determined by the ARD committee, student learning encompasses a variety of topics that include: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; ecosystems; and plants and the environment. Student investigations emphasize accurate observations, collection of data, data analysis, and the safe manipulation of laboratory apparatus and materials in the field and in the laboratory. Some variation in course content/emphasis may occur depending on the individual needs of the student. *Biology students are required to pass the State of Texas Assessments of Academic Readiness (STAAR) end-of-course (EOC) Biology exam to meet part of the graduation requirements.*

Integrated Physics and Chemistry Basic (Co-teach/Itinerant)

Course: 1390C

Grade Placement: 9-10

Prerequisite: ARD decision

Credit: 1

IPC Basic is recommended for students who need extra preparation to meet the rigors of physics and chemistry and integrates the two disciplines with a strong emphasis on calculation in the following topics: motion, waves, energy transformation, properties of matter, changes in matter, and solution chemistry. Some variation in course content/emphasis may occur depending on the individual

needs of the student. IPC does not qualify for the STEM endorsement. Based upon state HS graduation requirements, IPC must be taken prior to Chemistry and/or Physics. Campus advisement is strongly recommended.

Chemistry Basic (Co-teach/Itinerant)

Course: 1320C

Grade Placement: 10-12

Prerequisite: Biology and Algebra I, ARD decision

Credit: 1

Chemistry Basic is a study of the structure, composition, and behavior of matter. Through Basic and accommodated curriculum to meet the individual learning requirements of students as determined by the ARD committee, the course is a laboratory-oriented course that emphasizes the skills of gathering and analyzing both qualitative (observational) and quantitative (numerical) data. Students will cover nomenclature, chemical reactions, stoichiometry, the behavior of gases, atomic history and structure, chemical bonding, nuclear fission and fusion as well as acid-base theories. A conceptual approach will be coupled with mathematical skills necessary to solve fundamental chemistry problems. Students will investigate how chemistry is an integral part of our daily lives. Some variation in course content/emphasis may occur depending on the individual needs of the student.

Physics Basic (Co-teach/Itinerant)

Course: 1330C

Grade Placement: 10-12

Prerequisite: (Algebra I, completion of second year of math recommended), ARD decision

Credit: 1

Physics is the study of matter and energy and their interactions. Through Basic and accommodated curriculum to meet the individual learning requirements of students as determined by the ARD committee, this course of study will encompass fundamental concepts in the laws of motion, forces, energy and momentum, thermo-dynamics, waves, and nuclear phenomena. Student investigations emphasize accurate observations, collection of data, data analysis, and safe manipulation of laboratory apparatus. Students will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with classmates, and develop critical thinking skills. Some variation in course content/emphasis may occur depending on the individual needs of the student.

Astronomy (Co-teach/Itinerant)

Course: 1372C

Grade Placement: 11-12

Prerequisite: Biology and 1 Physical Science Recommended, ARD decision

Credit: 1

Students will conduct laboratory and field investigations, use scientific processes, and make informed decisions using critical thinking and scientific problem solving. Students will study the following topics: astronomy in civilization, patterns and objects in the sky, our place in space, the moon, reasons for the season, planets, the sun, stars, galaxies, cosmology and space exploration. Students who successfully complete Astronomy will acquire knowledge within a conceptual framework, conduct observations of the sky, work collaboratively, and develop critical-thinking skills. Students will have the opportunity to participate in night-time or early morning observations. Some variation in course content/emphasis may occur depending on the individual needs of the student.

Aquatic Science (Co-teach/Itinerant)

Course: 1385C

Grade Placement: 11-12

Prerequisite: Biology, Chemistry Recommended, ARD decision

Credit: 1

Aquatic Science provides an understanding and awareness of fresh and saltwater systems. Topics of study include aquatic systems and their habitats, cycles within an aquatic environment and adaptations of aquatic organisms, watersheds, geological phenomena and fluid dynamics. Students conduct field and laboratory investigations, gather complex quantitative and qualitative data, and make

conclusions based on data analysis. Emphasis is placed on independent lab skills and critical thinking skills. Students study a variety of current topics that revolve around societal questions and how humans have influenced aquatic environments. Some variation in course content/emphasis may occur depending on the individual needs of the student.

Environmental Systems (Co-Teach/Itinerant)

Course: 1395C

Grade Placement: 11-12

Prerequisite: Biology & 1 Physical Science Recommended, ARD decision

Credit: 1

Environmental Systems is a focus on the study of the environment with emphasis on ecology and natural resources. Topics include local environmental systems, source and energy flow, relationship between carrying capacity and changes in population and ecosystems; and environmental changes. Students will study a variety of current topics that revolve around people and society, including cultural perspectives and balance of nature. Environmental Systems is a focus on the study of the environment with emphasis on ecology and natural resources. Topics include local environmental systems, source and energy flow, relationship between carrying capacity and changes in population and ecosystems; and environmental changes. Students will study a variety of current topics that revolve around people and society, including cultural perspectives and balance of nature. Some variation in course content/emphasis may occur depending on the individual needs of the student.

SOCIAL STUDIES

World Geography Basic (Co-teach/Itinerant)

Course: 1410C

Grade Placement: 9

Prerequisite: ARD decision

Credit: 1

In World Geography Studies, students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Through Basic and accommodated curriculum to meet the individual learning requirements of students as determined by the ARD committee, students describe the influence of geography on events of the past and present with emphasis on contemporary issues. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major landforms, climates, and ecosystems and their interrelationships; the political, economic, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of the world population; relationships among people, places, and environments; and the concept of region. Students analyze how location affects economic activities in different economic systems. Students identify the processes that influence political divisions of the planet and analyze how different points of view affect the development of public policies. Students compare how components of culture shape the characteristics of regions and analyze the impact of technology and human modifications on the physical environment. Students use problem-solving and decision-making skills to ask and answer geographic questions. Some variation in course content/emphasis may occur depending on the individual needs of the student. *World Geography students will complete the required instruction on proper interaction with peace officers in accordance with Title 19 of the Texas Administrative Code (TAC) §74.5 to meet part of the graduation requirements.*

World History Basic (Co-teach/Itinerant)

Course: 1420C

Grade Placement: 10

Prerequisite: ARD decision

Credit: 1

World History Studies is a survey of the history of humankind. Due to the expanse of world history and the time limitations of the school year, the scope of this course should focus on "essential" concepts and skills that can be applied to various eras, events, and people within the standards in subsection (c) of this section. Through Basic and accommodated curriculum to meet the individual learning requirements of students as determined by the ARD committee, the major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilization as well as in civilizations in other parts of the world. Students

evaluate the causes and effects of political and economic imperialism and of major political revolutions since the 17th century. Students examine the impact of geographic factors on major historic events and identify the historic origins of contemporary economic systems. Students analyze the process by which constitutional governments evolved as well as the ideas from historic documents that influenced that process. Students trace the historical development of important legal and political concepts. Students examine the history and impact of major religious and philosophical traditions. Students analyze the connections between major developments in science and technology and the growth of industrial economies, and they use the process of historical inquiry to research, interpret, and use multiple sources of evidence. Some variation in course content/emphasis may occur depending on the individual needs of the student.

United States History (Since 1877) Basic (Co-teach/Itinerant)

Course: 1430C

Grade Placement: 11

Prerequisite: ARD decision

Credit: 1

In United States History Studies Since 1877 Basic, which is the second part of a two-year study that begins in Grade 8, students study the history of the United States from 1877 to the present. Through Basic and accommodated curriculum to meet the individual learning requirements of students as determined by the ARD committee, the course content is based on the founding documents of the U.S. government, which provide a framework for its heritage. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies, and reform movements, including civil rights. Students examine the impact of geographic factors on major events and eras and analyze their causes and effects. Students examine the impact of constitutional issues on American society, evaluate the dynamic relationship of the three branches of the federal government, and analyze efforts to expand the democratic process. Students describe the relationship between the arts and popular culture and the times during which they were created. Students analyze the impact of technological innovations on American life. Students use critical-thinking skills and a variety of primary and secondary source material to explain and apply different methods that historians use to understand and interpret the past, including multiple points of view and historical context. Some variation in course content/emphasis may occur depending on the individual needs of the student. *U.S. History students are required to pass the State of Texas Assessments of Academic Readiness (STAAR) end-of-course (EOC) U.S. History exam to meet part of the graduation requirements.*

United States Government Basic (Co-teach/Itinerant)

Course: 1440C

Grade Placement: 12

Prerequisite: ARD decision

Credit: .5

In United States Government, the focus is on the principles and beliefs upon which the United States was founded, and on the structure, functions, and powers of government at the national, state, and local levels. This course is the culmination of the civic and governmental content and concepts studied from Kindergarten through required secondary courses. Through Basic and accommodated curriculum to meet the individual learning requirements of students as determined by the ARD committee, students learn major political ideas and forms of government in history. A significant focus of the course is on the U.S. Constitution, its underlying principles and ideas, and the form of government it created. Students analyze major concepts of republicanism, federalism, checks and balances, separation of powers, popular sovereignty, and individual rights and compare the U.S. system of government with other political systems. Students identify the role of government in the U.S. free enterprise system and examine the strategic importance of places to the United States. Students analyze the impact of individuals, political parties, interest groups, and the media on the American political system, evaluate the importance of voluntary individual participation in a constitutional republic, and analyze the rights guaranteed by the U.S. Constitution. Students examine the relationship between governmental policies and the culture of the United States. Students identify examples of government policies that encourage scientific research and use critical-thinking skills to create a product on a contemporary government issue. Some variation in course content/emphasis may occur depending on the individual needs of the student.

Personal Financial Literacy and Economics (Co-teach/Itinerant)**Course:** 1461C**Grade Placement:** 12**Prerequisite:** ARD decision**Credit:** .5

Economics with Emphasis on the Free Enterprise System and Its Benefits/Personal Financial Literacy is the culmination of the economic content and concepts studied from Kindergarten through required secondary courses. Through Basic and accommodated curriculum to meet the individual learning requirements of students as determined by the ARD committee, the focus is on the basic principles concerning production, consumption, and distribution of goods and services (the problem of scarcity) in the United States and a comparison with those in other countries around the world. Students analyze the interaction of supply, demand, and price. Students will investigate the concepts of specialization and international trade, economic growth, key economic measurements, and monetary and fiscal policy. Students will study the roles of the Federal Reserve System and other financial institutions, government, and businesses in a free enterprise system. Types of business ownership and market structures are discussed. The course also incorporates instruction in personal financial literacy. Students apply critical-thinking skills using economic concepts to evaluate the costs/benefits of economic issues. The course also embeds Personal Financial Literacy. Personal Financial Literacy will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility. Personal Financial Literacy requires students to apply critical-thinking and problem-solving skills to analyze decisions involving earning and spending, saving and investing, credit and borrowing, insuring and protecting, and college and postsecondary education and training. There are many references to conducting a cost-benefit analysis for spending and investing decisions. Students evaluate the necessity of the purchase, the quality or value of the purchase or investment compared to other alternatives, and the total cost of acquisition, particularly in the context of financing options and see growth on investments and interest on debt and how they affect the ability to build wealth over time. Some variation in course content/emphasis may occur depending on the individual needs of the student.

ELECTIVES

Career Preparation I, II Basic (VAC)

Course: 6630, 6640

Grade Placement: 11-12

Prerequisite: ARD decision

Credit: 2-3

Career Preparation I and II Basic provide opportunities for students participate in learning experience that combines classroom instruction with paid business and industry employment for implementation of the student's IEP as determined by the ARD committee. Students are taught employability skills which include job-specific skills applicable to their training station, job interview techniques, communication skills, and portfolio development. Students must be employed a minimum of 15 hours per week at an approved job site. Students must provide their own transportation and must be continuously employed to remain in the class. Failure to maintain employment will result in removal from class and placement in other elective classes to fill the student's schedule. Extenuating circumstances will be reviewed on an individual basis. Career preparation is a work period scheduled within the school day. **This course does not count as an advanced course for endorsements. This course shall be selected only after the ARD committee considers and deems the school district's regular career and technology courses are not appropriate for meeting the individual needs of the student.**

Social Skills Basic

Course: 6675

Grade Placement: 9-12

Prerequisite: ARD decision; BIP

Credit: 1

Social Skills Basic provides opportunities for students to develop and generalize the skills necessary to increase functional independence and interpersonal skills across school settings.

SPECIAL EDUCATION ALTERNATE COURSES

4 YEAR ALTERNATE COURSE SEQUENCE (LIFE SKILLS AND STRUCTURED INSTRUCTION)

Subject Area	Freshman	Sophomore	Junior	Senior
Alternate English	English I	English II	English III	English 4IV
Alternate Math	Algebra I	Geometry	Math Models	Algebra II
Alternate Science	IPC	Biology	Environ. Systems	Aquatic Science
Alternate Social Studies	World Geography	World History	US History	Government/ Economics
PE/Languages Other Than English (LOTE)	Lifetime Fitness and Wellness Pursuits	Skill-Based Lifetime Activities	General Employability Skills I	General Employability Skills II
Local Credit	Activities for Transition Success I	Activities for Transition Success II	Activities for Transition Success III	Activities for Transition Success IV
Electives	Fine Arts	Open Elective	Open Elective	Open Elective

ENGLISH

English I Alternate

Course: 1019

Grade Placement: 9

Prerequisite: ARD decision

Credit: 1

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level English I Texas Essential Knowledge and Skills. The focus is on prerequisite skills for integrated language arts study in language/writing, literature/reading, speaking/listening, and viewing/ representing. Some variation in course content/emphasis may occur depending on the individual learning needs of the student. English I Alternate students are required to participate in the State of Texas Assessments of Academic Readiness Alternate-II (STAAR-Alt II) end-of-course (EOC) exam to meet part of the graduation requirements.

English II Alternate

Course: 1029

Grade Placement: 10

Prerequisite: English I Alternate, ARD decision

Credit: 1

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level English II TEKS. The focus is on prerequisite skills for integrated language arts study in language/writing, literature/reading, speaking/listening, and viewing/ representing. Students continue development of study skills, strategies, and the use of critical thinking skills. Some variation in course content/emphasis may occur depending on the individual learning needs of the student. English II Alternate students are required to participate in the State of Texas Assessments of Academic Readiness Alternate-II (STAAR-Alt II) end-of-course (EOC) exam to meet part of the graduation requirements.

English III Alternate**Course:** 1039**Grade Placement:** 11**Prerequisite:** English I & II Alternate, ARD decision**Credit:** 1

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level English III Texas Essential Knowledge and Skills. The focus is on integrated language arts study in language/writing, literature/reading, speaking/listening, and viewing/representing. Students continue to increase and refine communication skills; plan, draft, and complete written compositions with emphasis on business forms on a regular basis. American literature and other world literature provide the source for critical thinking and literary essays. Students present and critique oral communications and Graphic Design & Illustration products. Students continue to development of study skills, strategies, and the use of critical thinking skills. Some variation in course content/emphasis may occur depending on the individual learning needs of the student.

English IV Alternate**Course:** 1049**Grade Placement:** 12**Prerequisite:** English I, II, III Alternate, ARD decision**Credit:** 1

This course meets the individual learning requirements of students by focusing on Recommended Prerequisite skills for the grade level English IV Texas Essential Knowledge and Skills. The focus is on integrated language arts study in language/writing, literature/reading, speaking/listening, and viewing/representing. Students continue to increase and refine communication skills; plan, draft, and complete written compositions with emphasis on business forms on a regular basis. American literature and other world literature provide the source for critical thinking and literary essays. Students continue development of study skills, strategies, and the use of critical thinking skills. Some variation in course content/emphasis may occur depending on the individual learning needs of the student.

MATHEMATICS

Algebra I Alternate**Course:** 1219**Grade Placement:** 9**Prerequisite:** ARD decision**Credit:** 1

This course meets the individual learning requirements of students by focusing on Prerequisite skills for the grade level Algebra I Texas Essential Knowledge and Skills as determined by the ARD committee. Algebra I Alternate students build on earlier math experiences, deepening their understanding of relations and functions and expanding their repertoire of familiar linear and quadratic functions, and use exponential functions to model or solve problems using real-world data. Some variation in course content/emphasis may occur depending on the individual learning needs of the student. Algebra I Alternate students are required to participate in the State of Texas Assessments of Academic Readiness-Alternate-II (STAAR-Alt II) exam to meet part of the graduation requirements.

Geometry Alternate**Course:** 1229**Grade Placement:** 10**Prerequisite:** Algebra I Alternate, ARD decision**Credit:** 1

This course meets the individual learning requirements of students by focusing on Prerequisite skills for the grade level Geometry Texas Essential Knowledge and Skills as determined by the ARD committee. Students develop facility with a broad range of ways of representing geometric ideas, including coordinates, networks, transformations, that will allow multiple approaches to geometric problems and that connect geo-matric interpretations to other contexts. Students learn to recognize connections among different representations, thus enabling them to use these representations flexibly. Students will expand their understanding through other mathematical experiences through the Geometry content strands of Geometric Structure, Geometric Patterns, Dimensionality and

the Geometry of Location, Congruence and the Geometry of Size, and Similarity and the Geometry of Shape. Some variation in course content/emphasis may occur depending on the individual learning needs of the student.

Math Models with Applications Alternate

Course: 1242

Grade Placement: 11

Prerequisite: Algebra I and Geometry Alternate, ARD decision

Credit: 1

This course meets the individual learning requirements of students by focusing on Prerequisite skills for the grade level Math Models with Applications Texas Essential Knowledge and Skills as determined by the ARD committee. This course continues to build on the K-8 and Algebra 1 Alternate foundations to expand student understanding through individualized mathematical experiences. Students use mathematical methods to model and solve real-life application problems involving money, date, chance, patterns, music, design, and science. Students use a variety of representations, tools, and technology to link modeling techniques and purely mathematical concepts and to solve applied problems. Some variation in course content/emphasis may occur depending on the individual learning needs of the student.

Algebra II Alternate

Course: 1239

Grade Placement: 12

Prerequisite: ARD decision

Credit: 1

This course meets the individual learning requirements of students by focusing on Prerequisite skills for the grade level Algebra II Texas Essential Knowledge and Skills as determined by the ARD committee. Algebra II Alternate students build on earlier math experiences, deepening their understanding of relations and functions and expanding their repertoire of familiar linear and quadratic functions, and use exponential functions to model or solve problems using real-world data. Some variation in course content/emphasis may occur depending on the individual learning needs of the student.

SCIENCE

Integrated Physics and Chemistry Alternate

Course: 1392

Grade Placement: 9

Prerequisite: ARD decision

Credit: 1

This course meets the individual learning requirements of students by focusing on Prerequisite skills for grade-level Integrated Physics and Chemistry (IPC) Texas Essential Knowledge and Skills as determined by the ARD committee. In Integrated Physics and Chemistry Alternate, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry with the following topics: force, motion, energy, and matter. Some variation in course content/emphasis may occur depending on the individual learning needs of the student.

Biology Alternate

Course: 1319

Grade Placement: 10

Prerequisite: ARD decision

Credit: 1

This course meets the individual learning requirements of students by focusing on Prerequisite skills for grade-level Biology Texas Essential Knowledge and Skills as determined by the ARD committee. The course may cover cell structure and function of systems in organisms, scientific processes and basic concepts of biochemistry, genetics, microbiology, taxonomy, botany, physiology, and zoology. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the student.

Biology Alternate students are required to participate in the State of Texas Assessments of Academic Readiness Alternate-II (STAAR-Alt II) end-of-course (EOC) exam to meet part of the graduation requirements.

Environmental Systems Alternate

Course: 1396

Grade Placement: 11

Prerequisite: Biology Alternate, IPC Alternate, ARD decision

Credit: 1

This course meets the individual learning requirements of students by focusing on Prerequisite skills for grade-level Environmental Systems Texas Essential Knowledge and Skills as determined by the ARD committee. Environmental Systems is a focus on the study of the environment with emphasis on ecology and natural resources. Topics include local environmental systems, source and energy flow, relationship between carrying capacity and changes in population and ecosystems; and environmental changes. Students will study a variety of current topics that revolve around people and society, including cultural perspectives and balance of nature. Some variation in course content/emphasis may occur depending on the individual learning needs of the student.

Aquatic Science Alternate

Course: 1387

Grade Placement: 12

Prerequisite: Biology Alt, IPC Alt., Environ. Science Alt, ARD decision

Credit: 1

This course meets the individual learning requirements of students by focusing on Prerequisite skills for grade-level Aquatic Science Texas Essential Knowledge and Skills as determined by the ARD committee. Aquatic Science provides an understanding and awareness of fresh and saltwater systems. Topics of study include aquatic systems and their habitats, cycles within an aquatic environment and adaptations of aquatic organisms, watersheds, geological phenomena and fluid dynamics. Students conduct field and laboratory investigations, gather data, and make conclusions based on data analysis. Students study a variety of current topics that revolve around societal questions and how humans have influenced aquatic environments. Some variation in course content/emphasis may occur depending on the individual learning needs of the student.

SOCIAL STUDIES

World Geography Alternate

Course: 1419

Grade Placement: 9

Prerequisite: ARD decision

Credit: 1

This course meets the individual learning requirements of students by focusing on Prerequisite skills for the grade level World Geography Texas Essential Knowledge and Skills as determined by the ARD committee. This course involves study of the interaction of people and cultures with their physical environment in the world's major areas: attention to the locations of natural resources, geographic boundaries, landforms, economic development, language, patterns of settlement, and the interaction of cultures and nations within the context of global development. Activities use critical thinking skills and technology resources designed to assist students in recognizing how events in World Geography will influence our country and our people. Some variation in course content/emphasis may occur depending on the individual learning needs of the student.

World History Alternate

Course: 1429

Grade Placement: 10

Prerequisite: World Geography Alt., ARD decision

Credit: 1

This course meets the individual learning requirements of students by focusing on Prerequisite skills for the grade level World History Texas Essential Knowledge and Skills as determined by the ARD committee. The course focuses on historical development of human

society from past to present times. Emphasis placed on major events, world leaders, economic and political institutions, technological innovations, and the philosophical and religious beliefs that have shaped the modern world. Some variation in course content/emphasis may occur depending on the individual learning needs of the student.

United States History (Since 1877) Alternate:

Course: 1439

Grade Placement: 11

Prerequisite: World History Alt., ARD decision

Credit: 1

This course meets the individual learning requirements of students by focusing on Prerequisite skills for grade-level U.S. History TEKS as determined by the ARD committee. The course focuses on U.S. history from Reconstruction to the present. Students review and evaluate major themes and events in U.S. history, leaders, economic and political institutions, technological innovations, and the philosophies that affect the United States today. Some variation in course content/emphasis may occur on campus depending on the individual learning needs of the students. **U. S. History Alternate students are required to participate in the State of Texas Assessments of Academic Readiness Alternate-II (STAAR-Alt II) end-of-course (EOC) exam to meet part of the graduation requirements.**

United States Government Alternate

Course: 1449

Grade Placement: 12

Prerequisite: U.S. History Alt., ARD decision

Credit: .5

This course meets the individual learning requirements of students by focusing on Prerequisite skills for grade-level Government Texas Essential Knowledge and Skills as determined by the ARD committee. The course focuses on defining individual rights, privileges and responsibilities within the school, community, and employment settings. Concepts include voting, laws, and consequences of unlawful behavior, honesty, integrity, community volunteerism, rules, and regulations. Students learn how to be productive and safe in a variety of community situations including employment. Some variation in course content/emphasis may occur depending on the individual learning needs of the students.

Economics with Emphasis on the Free Enterprise System and Its Benefits Alternate

Course: 1469

Grade Placement: 12

Prerequisite: ARD decision

Credit: .5

This course meets the individual learning requirements of students by focusing on Prerequisite skills for grade-level Economics with Emphasis on the Free Enterprise System Texas Essential Knowledge and Skills as determined by the ARD committee. The focus is on the basic principles concerning production, consumption, and distribution of goods and services (the problem of scarcity) in the United States and a comparison with those in other countries around the world. Students also become familiar with the basic concepts of personal responsibility related to employability and being a productive, contributing member of a business, community and/or organization. . Some variation in course content/emphasis may occur depending on the individual learning needs of the students.

ALTERNATE ELECTIVES/CTE

Social Skills Alternate

Course: 6676

Grade Placement: 9-12

Prerequisite: ARD decision

Credit: 1

Social Skills Alternate provides opportunities for students to develop and generalize the skills necessary to increase functional independence and interpersonal skills across school settings.

Activities for Transition Success I, II, III, IV**Course:** 6410, 6411, 6412, 6413**Grade Placement:** 9-12**Prerequisite:** ARD decision**I, II, III, IV:** 1 Local Credit each

This course integrates domestic, recreation, leisure, school, and community domains. Students will learn and apply daily living skills through activities designed to promote successful transition to adulthood and increase independence. Students will study areas of cooking, safety, leisure, chores, duties, responsibilities, budget, time management, first-aid, and communication. Personal safety and responsibility will be examined as related to taking care of self, others, and/or pets. Health care, transportation, telephone skills, and recreation activities are addressed in the context of developing skills to maximize participation in the school and community .

Activities for Transition Success I: Focuses on the study of daily living experiences with emphasis on daily routines and schedules and community access in the school setting.

Activities for Transition Success II: Focuses on the study of daily living experiences with emphasis on personal safety and responsibility and community access in the school setting.

Activities for Transition Success III: Focuses on the study of daily living experiences with emphasis on domestic skills.

Activities for Transition Success IV: Focuses on the study of daily living experiences with emphasis on life choices, needs, employment and community access in a variety of community settings.

P.E./LANGUAGES OTHER THAN ENGLISH (LOTE)**Lifetime Fitness and Wellness Pursuits Alternate****Course:** 6401**Grade Placement:** 9**Prerequisite:** ARD decision**Credit:** 1

The purpose of this course is to motivate students to strive for lifetime personal fitness through alternate activities with an emphasis on the health-related components of physical fitness. Instructional units focus on prerequisite skills to basic conditioning, advantages of weight training, proper nutrition, and the appraisal of individual fitness levels.

Skill-Based Lifetime Activities Alternate**Course:** 6402**Grade Placement:** 10**Prerequisite:** ARD decision**Credit:** 1

Students are expected to participate in a wide range of individual and team sports that can be pursued for a lifetime. In this course students develop health-related fitness and an appreciation for teamwork and fair play. Students learn skills, rules, and regulations for participation. The instructional focus of this course is on the benefits of participating in physical activities throughout a lifetime.

Lifetime Recreation and Outdoor Pursuits Alternate**Course:** 6403**Grade Placement:** 11**Prerequisite:** ARD decision**Credit:** 1

Lifetime Recreation and Outdoor Pursuits Alternate targets a variety of movements that promote and encourage health-related fitness. Students enrolled in this course will acquire skills and knowledge in a variety of alternate cardiovascular activities such as jogging, power walking, step aerobics, and circuit training.

General Employability Skills I Alternate**Course:** 6610**Grade Placement:** 11**Prerequisite:** ARD decision**Credit:** 1

This course is designed to will provide students with opportunities to learn the pre-vocational skills necessary for employment. Students will have the opportunity for hands on experiences in the classroom setting, to develop work-related skills in the areas of working independently, tolerating work interruptions, receiving corrective feedback, sustaining attention, asking for help when needed, performing novel tasks, following instructions, adjusting to changes in routine, and correcting errors. May be used as the LOTE I substitute.

General Employability Skills II Alternate**Course:** 6620**Grade Placement:** 12**Prerequisite:** Gen. Employability Skills Alt. I, ARD decision**Credit:** 1

This course is designed to provide students with opportunities to learn the pre-vocational skills necessary for employment. Students will have the opportunity for hands on experiences in the classroom, school, and community settings, to develop work-related skills in the areas of working independently, tolerating work interruptions, receiving corrective feedback, sustaining attention, asking for help when needed, performing novel tasks, following instructions, adjusting to changes in routine, and correcting errors. This course is designed to build upon skills learned in GESA-I. Students have the opportunity for hands-on experiences to practice skills related to potential employment in authentic settings. May be used as the LOTE II substitute.

ADULT TRANSITION (AIMS)

Students eligible to participate in the AIMS program must have completed requirements for high school completion under the High School Foundation Program and have a need for instruction in the area of postsecondary goals as documented in the IEP.

Adult Transition (AIMS)**Course:** 6677**Prerequisites:** High school completion, 18-21 years old, ARD decision**Credit:** 0

Achieving Independence to Maximize Success (AIMS) is a program for adult students in need of transition programming to increase access to employment and the community either through the Community Path or the Career Path through individualized instruction as part of the IEP. Participants gain real-life experiences in simulated and authentic environments to develop skills to support attainment of post-secondary outcomes.

The AIMS program does not reflect a typical 7-hour school day. All participants have an individualized schedule based on the IEP and transition needs as determined by the ARD committee.

ADVANCEMENT VIA INDIVIDUAL DETERMINATION (AVID)

Course Name	Credits	Grade Levels	Prerequisites
AVID I	1	9	District Admissions Process
AVID II	1	10	District Admissions Process or AVID I
AVID III	1	11	AVID II
AVID IV	1	12	AVID III

AVID I

Course: 1830

Grade Placement: 9

Prerequisite: District Application/Admissions Process

Credit: 1

Advancement Via Individual Determination (AVID) is an academic elective course that prepares students for college readiness and success. Each week, students receive instruction on tutor-facilitated study groups, motivational activities, and academic success skills. Students engage in activities centered around exploring college and career opportunities and their own agency. The 9th grade AVID Elective course will serve as a review of the AVID philosophy and strategies. Students will work on academic and personal goals, communication and adjusting to the high school setting. Students will increase their awareness of their personal contributions to their learning as well as their involvement in their school and community. There is an emphasis on analytical writing, focusing on personal goals and thesis writing. Students will work in collaborative settings, learning how to participate in collegial discussions and use sources to support their ideas and opinions. Students will prepare for and participate in college entrance and placement exams while refining study skills and test-taking, note-taking, and research techniques. They will take an active role in field trips and guest-speaker preparations and presentations. Their college research will include financial topics and building their knowledge of colleges and careers of interest. AVID students are expected to maintain enrollment in an Advanced Academic course.

AVID II

Course: 1840

Grade Placement: 10

Prerequisite: District Application/Admissions Process or AVID I

Credit: 1

Advancement Via Individual Determination (AVID) is an academic elective course that prepares students for college readiness and success. Each week, students receive instruction on tutor-facilitated study groups, motivational activities, and academic success skills. Students engage in activities centered around exploring college and career opportunities and their own agency. During the 10th grade AVID Elective course, students will refine the AVID strategies to meet their independent needs and learning styles. Students will continue to refine and adjust their academic learning plans and goals, increasing awareness of their actions and behaviors. As students increase their rigorous course load and school/community involvement, they will refine their time-management and study skills accordingly. Students will expand their writing portfolio and analyze various documents in order to participate in collaborative discussions and develop leadership skills in those settings. Students will expand their vocabulary use, continuing to prepare for college entrance exams. Text analysis will focus on specific strategies to understand complex texts. Lastly, students will narrow down their colleges and careers of interest based on their personal interests and goals. AVID students are expected to maintain enrollment in an Advanced Academic course.

AVID III**Course:** 1850**Grade Placement:** 11**Prerequisite:** AVID II**Credit:** 1

Advancement Via Individual Determination (AVID) is an academic elective course that prepares students for college readiness and success. Each week, students receive instruction on tutor-facilitated study groups, motivational activities, and academic success skills. Students engage in activities centered around exploring college and career opportunities and their own agency. The 11th grade AVID Elective course is the first part in a junior/senior seminar course that focuses on writing and critical thinking expected of first- and second-year college students. In addition to the academic focus of the AVID seminar, there are college-bound activities, methodologies, and tasks that should be undertaken during the junior year to support students when they apply to four-year universities and confirm their postsecondary plans. AVID students are expected to maintain enrollment in an Advanced Academic course.

AVID IV**Course:** 1860**Grade Placement:** 12**Prerequisite:** AVID III**Credit:** 1

Advancement Via Individual Determination (AVID IV) is an academic elective course that prepares students for college readiness and success. Each week, students receive instruction on tutor-facilitated study groups, motivational activities, and academic success skills. The 12th grade AVID Elective is the second part in a junior/senior seminar that focuses on the writing and critical thinking expected of first- and second-year college students. Students will complete a final research essay project with research skills gained in their junior year in AVID. In addition to the academic focus of the seminar, there are college-bound activities, methodologies, and tasks that should be achieved during the senior year that support students as they apply to four-year universities and confirm their postsecondary plans. All AVID seniors develop and present a portfolio representing their years of work in the AVID program and complete seminar requirements. AVID students are expected to maintain enrollment in an Advanced Academic course.

ATHLETICS

Boys	Girls
Baseball (9 th -3101, 10 th -3102, 11 th - 3103, 12 th - 3104)	Basketball (9 th - 3075, 10 th - 3076, 11 th - 3077, 12 th - 3078)
Basketball (9 th - 3061, 10 th -3062, 11 th - 3063, 12 th - 3064)	Cross Country (9 th - 3201, 10 th - 3202, 11 th - 3203, 12 th - 3204)
Cross Country (9 th -3201, 10 th - 3202, 11 th - 3203, 12 th -3204)	Golf (9 th - 3191, 10 th - 3192, 11 th - 3193, 12 th - 3194)
Football (9 th -3051, 10 th -3052, 11 th -3053, 12 th -3054)	Gymnastics (9 th -3151, 10 th - 3152, 11 th -3153, 12 th -3154)
Golf (9 th -3191, 10 th -3192, 11 th -3193, 12 th -3194)	Soccer (9 th - 3091, 10 th - 3092, 11 th - 3093, 12 th - 3094)
Gymnastics (9 th -3141, 10 th - 3142, 11 th -3143, 12 th -3144)	Softball (9 th - 3111, 10 th - 3112, 11 th - 3113, 12 th - 3114)
Soccer (9 th -3081, 10 th -3082, 11 th - 3083, 12 th - 3084)	Swimming (9 th - 3211, 10 th -3212, 11 th - 3213, 12 th - 3214)
Swimming (9 th - 3211, 10 th -3212, 11 th - 3213, 12 th - 3214)	Tennis (9 th - 3121, 10 th - 3122, 11 th - 3123, 12 th - 3124)
Tennis (9 th - 3121, 10 th - 3122, 11 th -3123, 12 th - 3124)	Track (9 th -3201, 10 th - 3202, 11 th - 3203, 12 th -3204)
Track (9 th -3201, 10 th - 3202, 11 th - 3203, 12 th -3204)	Volleyball (9 th - 3071, 10 th - 3072, 11 th - 3073, 12 th - 3074)
Wrestling (9 th -3221, 10 th -3222, 11 th -3223, 12 th - 3224)	Wrestling (9 th -3221, 10 th -3222, 11 th -3223, 12 th - 3224)
Trainer See the Campus Athletic Trainer for approval.	Trainer See the Campus Athletic Trainer for approval.

High School Athletics

Grade Placement: 9-12

Course: Various (see your counselor)

Prerequisite: Coach Approval

Credit: .5 per semester

Athletics provide students with the opportunity to fine tune their athletic abilities and compete against students from other schools. Participation in athletics develops self-discipline, cooperation, leadership, responsibility, self-control and selflessness of participation in team sports. A physical examination is required to be on file before participation. **Students may earn up to 4 credits for participation in athletics.**

**Students who do not make a team must remain in that scheduled athletics course until the end of the semester.
All change requests must be made within the first 10 days of the course.**

Ninth grade athletics is the introduction of UIL Competition Athletics at the high school level. Our objectives are to teach the proper attitude, improve the athletic ability of each student and to use Athletics to enhance academics. Students in the class period work to become better people and better athletes and practice individual sport skills after school. **Students may earn up to 4 credits for participation in athletics.**

Requirements to enroll: All necessary paperwork must be completed and turned in prior to end of school in the student's eighth grade year. A physical examination is required to be on file before participation. Please see your counselor if you are interested in participating.

SUPPLEMENTARY ATHLETIC EVENTS

District High Schools participate in competitive Power Lifting.

Power lifting is not offered as a class during the school day. Students practice before and/or after school.

Contact the Athletic Department for additional information.



CAREER AND TECHNICAL EDUCATION: AGRICULTURE, FOOD, AND NATURAL RESOURCES

Course Name	Credits	Grade Levels	Prerequisites
Principles of Agriculture, Food, and Natural Resources	1	9-12	None
Equine Science	.5	9-12	Principles of Agriculture, Food, and Natural Resources (rec)
Floral Design	1	9-12	None
Livestock Production	1	9-12	Principles of Agriculture, Food, and Natural Resources (rec)
Small Animal Management	.5	9-12	Principles of Agriculture, Food, and Natural Resources (rec)
Veterinary Medical Applications (fall semester)	1	11-12	Principles of Agriculture, Food, and Natural Resources; Small Animal Management and Equine Science or Livestock Production; courses are co-requisites
Advanced Animal Science (spring semester)	1	11-12	Veterinary Medical Applications
Greenhouse Operations/Agricultural Lab and Field Experience Dual Credit (HALT 1301, AGCR 2418) <i>course located at TCC Northwest</i>	2	11-12	Principles of Agriculture, Food, and Natural Resources, Floral Design; TCC requirements for dual credit; Transportation to TCC; availability in schedule for afternoon courses at TCC
<i>Horticulture Dual Credit (HALT 2308) course located at TCC Northwest</i>	1	12	Greenhouse Operations/Agricultural Lab and Field Exp; MUST take Advanced Plant and Soil Science as a co-requisite; TCC dual credit reqs; Transportation to TCC; availability in schedule for afternoon courses at TCC
Advanced Plant and Soil Science Dual Credit (HALT 2323) <i>course located at TCC Northwest</i>	1	12	Greenhouse Operations/Agricultural Lab and Field Exp; MUST take Horticulture as co-requisite, Biology, IPC or Chemistry or Physics; TCC dual credit reqs; Transportation to TCC; availability in schedule for afternoon courses at TCC
Practicum in Agriculture, Food, and Natural Resources - Veterinary Science	2	12	Veterinary Medical Applications and Advanced Animal Science; student must have transportation to practicum job site

Principles of Agriculture, Food, and Natural Resources

Course: 5211

Grade Placement: 9-12

Prerequisite: None

Credit: 1

Site: BHS, SHS, CTHS

This course is designed to prepare students for careers in agriculture, food, and natural resources and introduces the basics of global agriculture.

Equine Science

Course: 5240

Grade Placement: 9-12

Prerequisite: Principles of Agriculture, Food, and Natural Resources (rec)

Credit: .5

Site: BHS, SHS, CTHS

This course develops knowledge and skills pertaining to the selection, nutrition, reproduction, health and management of horses, donkeys, and mules

Livestock Production

Course: 5231

Grade Placement: 9-12

Prerequisite: Principles of Agriculture, Food, and Natural Resources (rec)

Credit: 1

Site: BHS, SHS, CTHS

This course is designed to prepare for careers in the field of animal science. Animal species to be addressed in this course may include but are not limited to, beef cattle, dairy cattle, swine, sheep, goats, and poultry.

Small Animal Management

Course: 5234

Grade Placement: 9-12

Prerequisite: Principles of Agriculture, Food, and Natural Resources (rec)

Credit: .5

Site: BHS, SHS, CTHS

This course prepares students for careers in the field of animal science, students learn the importance of responsible care and management requirements for a variety of small animals. The students learn safe practices and techniques for working with small animals.

Floral Design

Course: 5295

Grade Placement: 9-12

Prerequisite: None

Credit: 1

Site: BHS, CTHS, SHS

Exposes students to the basic technique of floral design. The class is project based with many large and small projects used to evaluate the progress of the student. There are lots of hands-on activities and techniques required in the floral industry. This course fulfills a fine arts graduation requirement.

Veterinary Medical Applications (fall semester)**Course:** 5241**Grade Placement:** 11-12**Prerequisite:** Principles of Agriculture, Food, and Natural Resources, and Small Animal Management/Equine Science, or Livestock Production; Must be taken with Advanced Animal Science in the spring semester.**Credit:** 1**Site:** HCTC

This course is designed to cover topics relating to veterinary practices for large and small animal species. Students will gain knowledge and skills regarding career opportunities, entry requirements and industry expectations.

Advanced Animal Science (spring semester)**Course:** 5242**Grade Placement:** 11-12**Prerequisite:** Veterinary Medical Applications (fall semester)**Credit:** 1**Site:** HCTC

This course is designed to examine the interrelatedness of human, scientific, and technological dimensions of livestock production. Students will learn to apply scientific and technological aspects of animal science through field and laboratory experiences.

Greenhouse Operations/ Agricultural Lab and Field Experience Dual Credit**Course:** 5263 (HALT 1301, AGCR 2418)**Grade Placement:** 11-12**Prerequisite:** Principles of Agriculture, Food, and Natural Resources and TCC dual credit enrollment; Students will need to have availability in their schedule for afternoon classes at TCC Northwest. Students must provide their own transportation to TCC.**Credit:** 2**Site:** TCC Northwest

This course is designed to develop an understanding of common horticulture management practices as they relate to food and ornamental plant production.

Horticulture Dual Credit**Course:** 5261 (HALT 2308)**Grade Placement:** 12**Prerequisite:** Greenhouse Operations/ Agricultural Lab and Field Experience and TCC dual credit enrollment; students must take Advanced Plant and Soil Science as a co-requisite. Students will need to have availability in their schedule for afternoon classes at TCC Northwest. Students must provide their own transportation to TCC.**Credit:** 1**Site:** TCC Northwest

This course is designed to develop an understanding of common horticulture management practices as they relate to food and ornamental plant production.

Advanced Plant and Soil Dual Credit**Course:** 5262 (HALT 2323)**Grade Placement:** 12**Prerequisite:** Greenhouse Operations/ Agricultural Lab and Field Experience and TCC dual credit enrollment; Horticulture must be a co-requisite. Students will need to have availability in their schedule for afternoon classes at TCC Northwest. Students must provide their own transportation to TCC.**Credit:** 1**Site:** TCC Northwest

This course is designed to prepare students for careers in the plant and soil sciences. Students must attain academic skills and knowledge, and acquire technical knowledge and skills related to plant and soil science in the workplace. Upon successful completion of the following TCC dual credit courses: Greenhouse Operations/ Agricultural Lab and Field Experience, Horticulture, and Advanced Plant and Soil, students will be qualified through TCC to set for the Texas Department of Agriculture Pesticide Application License.

Practicum in Agriculture, Food, and Natural Resources- Veterinary Science

Course: 5243

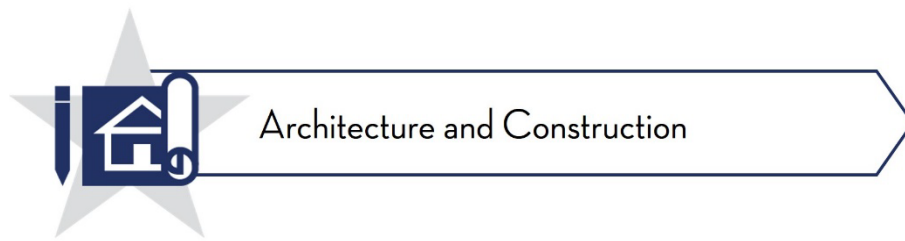
Grade Placement: 12

Prerequisite: Veterinary Medical Applications and Advanced Animal Science

Credit: 2

Site: Practicum job/clinic site

This course is designed to give students supervised practical application of knowledge and skills necessary for taking the Certified Veterinary Assistant exam. Students will work in both the classroom and animal clinics to prepare for the exam. Students will demonstrate, professional dress and appearance, interpersonal skills and technical skills in their practicum location. Students are responsible for their own transportation to the practicum sites.



CAREER AND TECHNICAL EDUCATION: ARCHITECTURE AND CONSTRUCTION

Course Name	Credits	Grade Levels	Prerequisites
Principles of Architecture	1	9-12	None
Architectural Design 1	1	10-12	Principles of Architecture, Algebra 1, and English 1
Architectural Design 2	2	11-12	Architectural Design 1
Principles of Construction	1	9-12	None
Electrical Technology 1 and 2	3	12	Principles of Construction (rec)

Principles of Architecture

Course: 5561

Grade Placement: 9-12

Prerequisite: None

Credit: 1

Site: BHS, SHS, CTHS

This course is a project-based course that will explore house design through computer aided design (CAD) and model building. The investigation will include the basic structure of a house, the layout of a house and interior design.

Architectural Design 1

Course: 5562

Grade Placement: 10-12

Prerequisite: Principles of Architecture, Alg. 1 and Eng. 1

Credit: 1

Site: BHS, SHS, CTHS

This course is a project-based course that will explore house design through computer aided design (CAD) and model building. This course will expand the CAD software used in class. The investigation will include the basic structure of a house, the layout of a house, interior design, exterior aesthetics, and exploration of integration of architectural styling.

Architectural Design 2

Course: 5563

Grade Placement: 11-12

Prerequisite: Architectural Design 1; fee required

Credit: 2

Site: HCTC

In Architectural Design 2, students gain advanced knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design and landscape architecture. Architectural Design 2 includes the advanced knowledge of the design, design history, techniques and tools related to the production of drawings, renderings, and scaled models for commercial or residential architectural purposes.

Principles of Construction**Course:** 5564**Grade Placement:** 9-12**Prerequisite:** None**Credit:** 1**Site:** BHS, SHS, CTHS

This course will provide an introduction for students interested in construction or crafted skill area. Emphasis will consist of construction safety and proper usage of hand and power tools. Communication and employability skills necessary to obtain jobs will also be an area of focus. Successful completion of the 10-hour Occupational Safety and Health Administration Construction training exam is a required pre-requisite for continuing in the course. **Students who have not passed the exam by the end of the first six weeks will be removed from the course and placed in another elective.**

Electrical Technology 1 and Electrical Technology 2**Course:** 5565 and 5566**Grade Placement:** 12**Prerequisite:** Principles of Construction (rec)**Credit:** 3**Site:** HCTC

Students will follow the IEC (Independent Electrical Contractors) curriculum of Fort Worth/Tarrant County. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, alternating current and direct motors, conductor installation, installation of electrical services, and electrical lighting installation. Successful completion of courses will allow students to earn their first year Electrical Apprentice Certification. Students will earn 148 hours of classroom instructions towards the IEC four-year apprenticeship program.



CAREER AND TECHNICAL EDUCATION: ARTS, A/V TECHNOLOGY, AND COMMUNICATIONS

Course Name	Credits	Grade Levels	Prerequisites
Digital Media	1	9-12	None
Principles of Audio/Video Production	1	9-12	None
Audio/Video Production 1	2	11-12	Principles of Audio/Video Production; Fee
Audio/Video Production 2	2	12	Audio/Video Production 1; Fee
Digital Audio Technology 1 and 2	2	11-12	Audio/Video Production 1; Fee
Practicum of Audio Production	2	12	Digital Audio Technology 1 and 2
Animation 1 and Lab	2	11-12	Art 1 (rec), Digital Media
Animation 2 and Lab	2	12	Animation 1 and Lab
Graphic Design and Illustration 1 and Lab	2	11-12	Art 1 (rec), Digital Media
Graphic Design and Illustration 2 and Lab	2	12	Graphic Design and Illustration 1 and Lab

Digital Media

Course: 5041

Grade Placement: 9-12

Prerequisite: None

Credit: 1

Site: BHS, SHS, CTHS

In this course, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment.

Principles of Audio/Video Production

Course: 5078

Grade Placement: 9-12

Prerequisite: None

Credit: 1

Site: BHS, SHS, CTHS

In the Principles of Audio/Video Production course, students will obtain the introductory skills of audio/video production. Through team and individual projects, students will improve knowledge and skills in these areas as well as their communication, interpersonal, and presentation skills.

Audio/Video Production 1**Course:** 5081**Grade Placement:** 11-12**Prerequisite:** Principles of Audio/Video Production; fee required**Credit:** 2**Site:** HCTC

Students will learn the technology to create and manage professional-level video presentations. Pre-production planning (scriptwriting, storyboarding, shot preparation, and tools), production (cameras, lighting, sets, and direction) and post-production (editing, master creation and delivery) will be emphasized using short documentaries and exercises as the basis for mastery.

Audio/Video Production 2**Course:** 5082**Grade Placement:** 12**Prerequisite:** Audio/Video Production 1 and Lab; fee required.**Credit:** 2**Site:** HCTC

In addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production and post-production audio and video activities.

Digital Audio Technology 1 and 2**Course:** 5083 and 5084**Grade Placement:** 11-12**Prerequisite:** Audio/Video Production 1; fee required.**Credit:** 1 each**Site:** HCTC

Digital Audio Technology is designed to provide students interested in audio production careers such as audio for radio and television broadcasting, audio for video and film, audio for animation and game design, music production and live sound, and additional opportunities and skill sets.

Practicum of Audio Production**Course:** 5093A**Grade Placement:** 12**Prerequisite:** Digital Audio Tech 1 and 2**Credit:** 2**Site:** HCTC

This course focuses on advanced techniques in audio mixing and editing. Students will develop strategies by successfully navigating through production scenarios common in music and sound for media.

Animation 1 and Lab**Course:** 5085**Grade Placement:** 11-12**Prerequisite:** Art 1 (rec), Digital Media; fee required**Credit:** 2**Animation 2 and Lab****Course:** 5086**Grade Placement:** 12**Prerequisite:** Animation 1 and Lab; fee required**Credit:** 2.0**Site:** HCTC

Do you love to draw and make art? Do Pixar movies and console video games inspire you? The animation program at the Hollenstein Career and Technology Center is the perfect place for talented artists and storytellers to get a jumpstart on their college or professional careers. You will learn traditional animation methods using digital tablets and professional software, then advance to 3D modeling and animation using the same programs used at major film and game studios. You can even gain certification in Adobe and Autodesk programs, which can give you an advantage on your resume when you graduate. Enroll in animation and get ready to create!

Graphic Design and Illustration 1 and Lab**Course:** 5087**Grade Placement:** 11-12**Prerequisite:** Art 1 (rec), Digital Media; fee required**Credit:** 2

Do you love to draw and make art? Do you see yourself as a designer or photographer someday? Graphic Design and Illustration class at the Hollenstein Career and Technology Center will give you a jumpstart on your creative career. Learn how to design with the latest high- end software from Adobe, including Photoshop, Illustrator InDesign and After Effects. Practice model or product photography in our photo studio, and learn how to retouch like the pros. When the work is done, you can print poster size images on one of our wide format printers. You can even gain certification in any of the Adobe programs, which can give you an advantage on your resume when you graduate. Enroll in the graphic design and illustration class and get ready to create!

Graphic Design and Illustration 2 and Lab**Course:** 5094**Grade Placement:** 12**Prerequisite:** Graphic Design and Illustration 1 and Lab; fee required**Credit:** 2**Site:** HCTC

Students enrolled in Graphic Design and Illustration 2 and Lab will continue to improve their design skills utilizing software from Adobe, including Photoshop, Illustrator InDesign and After Effects. Students will have opportunities to work creatively with others to design school and local community projects.



CAREER AND TECHNICAL EDUCATION: BUSINESS, MARKETING, AND FINANCE

Course Name	Credits	Grade Levels	Prerequisites
Principles of Business, Marketing, and Finance	1	9-12	None
Business Information Management 1	1	8-12	None
Business Information Management 2	1	9-12	Business Information Management 1
Business Management	1	12	Principles of Business, Marketing, and Finance or Business Information Management 1
Money Matters	1	9-12	None
Accounting 1	1	10-12	Principles of Business, Marketing, and Finance; Business Information Management 1; or Money Matters
Accounting 2	1	11-12	Accounting 1
Advertising	.5	10-12	Principles of Business, Marketing, and Finance (rec)
Sports & Entertainment	.5	10-12	Principles of Business, Marketing, and Finance (rec)
Entrepreneurship	1	11-12	Principles of Business, Marketing, and Finance; Sports and Entertainment and Advertising
Securities, Investments, and Financial Analysis	2	12	Accounting 1 (rec); Principles of Business, Marketing, and Finance (rec)

Principles of Business, Marketing, and Finance

Course: 5111

Grade Placement: 9-12

Prerequisite: None

Credit: 1

Site: BHS, SHS, CTHS

This is an introductory course where students will gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles.

Business Information Management 1**Course:** 5141**Grade Placement:** 8-12**Prerequisite:** None**Credit:** 1**Site:** BHS, SHS, CTHS

Business Information Management develops technology skills with applications to personal or business situations focusing on: word processing, spreadsheets, data bases, telecommunication, desktop publishing, presentation management, networking, operating systems, and emerging technologies; and develops intermediate-level skills.

Business Information Management 2**Course:** 5142**Grade Placement:** 9-12**Prerequisite:** Business Information Management 1**Credit:** 1**Site:** BHS, SHS, CTHS

BIM II provides advanced technology skills required in the business environment; includes workplace technology standards in applications of word processing, spreadsheets, databases, telecommunications, desktop publishing, presentation management, networking, operating systems, and emerging technologies and develops advanced level skills. The Microsoft Office Specialist Examinations in Word, Excel and Power Point are possible upon successful completion of this course.

Business Management**Course:** 5161**Grade Placement:** 12**Prerequisite:** Principles of Business, Marketing and Finance or Business Information Management 1**Credit:** 1**Site:** BHS, SHS, CTHS

This course will allow students to analyze the primary functions of management and leadership, which are planning, organizing, staffing, directing, or leading and controlling. Students will develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent managers, employees and entrepreneurs.

Money Matters**Course:** 5152**Grade Placement:** 9-12**Prerequisite:** None**Credit:** 1**Site:** BHS, SHS, CTHS

Money Matters will promote financial responsibility among teens by building their basic money management skills. Students will apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to set long-term financial goals through investment, tax planning, asset allocation, and risk management. Special emphasis is placed on bank record management, use of credit, investing, insurance, and budgets. In addition, students are introduced to financial market and securities analysis. Current economic events indicate that it is never too early for students to gain an awareness of factors that will impact their short-term and long-term financial plans.

Accounting 1**Course:** 5121**Grade Placement:** 10-12**Prerequisite:** Principles of Business, Marketing, and Finance; Business Information Management; or Money Matters**Credit:** 1**Site:** BHS, SHS, CTHS

Course curriculum is designed to provide students a strong foundation in accounting principles. Students will learn what business transactions are and how accountants use a double-entry system (debits and credits) to keep track of these transactions. Next students will study the complete accounting cycle of recording transactions, preparing financial statements, and "closing the books" for small, single-owner service and merchandising businesses. This course prepares students for post-secondary accounting courses.

Accounting 2**Course:** 5131**Grade Placement:** 11-12**Prerequisite:** Accounting 1**Credit:** 1**Site:** BHS, SHS, CTHS

Accounting II provides for review and further development of fundamental accounting principles with extensive use of technology. Examines characteristics of corporate organization and ownership, including investments and distribution of earnings; includes adjustments to bad debts, depreciation, depletion of fixed assets, adjusted and accrued income, various methods of inventory control, preparation of business budgets and notes receivable and payable; provides experience in initiating and maintaining an accounting system and in analyzing, interpreting and synthesizing managerial problems using accounting information as a tool.

Advertising**Course:** 5156**Grade Placement:** 10-12**Prerequisite:** Principles of Business, Marketing and Finance (rec)**Credit:** .5**Site:** BHS, SHS, CTHS

Advertising is designed as a comprehensive introduction to the principles and practices of advertising. Students will gain knowledge of techniques used in current advertising, including print broadcast media. The course explores the social, ethical, and legal issues of advertising, historical influences, strategies and media decision processes as well as integrated marketing communications. The course provides an overview of how communication tools can be used to reach target audiences and increase consumer knowledge.

Sports and Entertainment**Course:** 5112**Grade Placement:** 10-12**Prerequisite:** Principles of Business, Marketing and Finance (rec)**Credit:** .5**Site:** BHS, SHS, CTHS

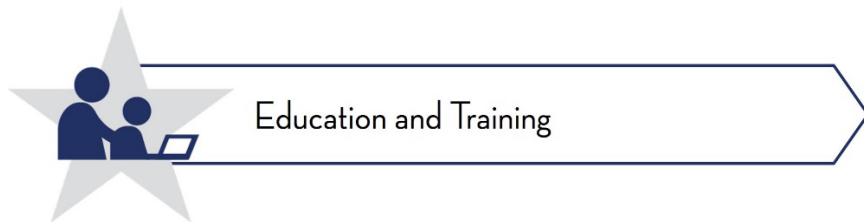
Sports and Entertainment marketing is a unique and innovative course designed for students with an interest in the sports and entertainment industry. This course stresses the utilization of fundamental marketing concepts and will include an orientation to the sports and entertainment industry. This course will develop critical thinking, decision making and communication skills through real world applications. Students will be prepared to handle specific tasks associated with either industry. This course offers students an edge in pursuing marketing or sports management degrees on the collegiate level. Guest speakers, case studies, field trips, and computer integrated activities will be incorporated into the class.

Entrepreneurship**Course:** 5113**Grade Placement:** 11-12**Prerequisite:** Principles of Business, Marketing, and Finance; Sports and Entertainment and Advertising**Credit:** 1**Site:** BHS, SHS, CTHS

In this course you will learn the basics needed to plan and launch your own business. Do you have what it takes to start a new business? Do you have an idea for a business but need the tools to get started? This course will provide you with the core skills you need to become successful. In this course you will study the characteristics of successful entrepreneurs. You will also learn about self-employment and basic economic concepts related to small businesses, such as competition and production. This course will also walk you through the steps of setting up a business, including developing a business plan, a mission and a vision, attracting investors, and marketing your company.

Securities and Investments/Financial Analysis**Course:** 5162/5163**Grade Placement:** 12**Prerequisite:** Accounting 1(rec); Principles of Business, Marketing, and Finance (rec)**Credits:** 2**Site:** HCTC

Students will examine the laws and regulations to manage business operations and transactions in the securities industry. Students will apply knowledge and technical skills in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students will develop analytical skills by actively evaluating financial results of multiple businesses, interpreting results for stakeholders, and presenting strategic recommendations for performance improvement.



Education and Training

CAREER AND TECHNICAL EDUCATION: EDUCATION AND TRAINING			
Course Name	Credits	Grade Levels	Prerequisites
Principles of Education and Training	1	9-12	None
Instructional Practices	2	10-12	Principles of Education and Training; enrollment form
Practicum in Education and Training 1	2	11-12	Instructional Practices; enrollment form and provide own transportation
Practicum in Education and Training 2	2	12	Practicum in Education and Training; 1 enrollment form and provide own transportation

Principles of Education and Training

Course: 5331

Grade Placement: 9-12

Prerequisite: None

Credit: 1

Site: BHS, SHS, CTHS

Students are introduced to careers available within the education and training career cluster, such as teaching, coaching, director, trainer, educational counseling, and educational administration. Students will create an educational/career plan for working within this career cluster and will begin building a career portfolio that will be developed throughout the education and training course path.

Instructional Practices

Course: 5332

Grade Placement: 10-12

Prerequisite: Principles of Education and Training; Child Development (rec); enrollment form

Credit: 2

Site: HCTC

Students will develop knowledge, skills and experiences needed to work within the education and training career cluster. These may include child development theories, learning activities, program management, curriculum planning, teaching, and leadership. Students gain field experience at cooperative schools during assigned class time; placement rotations are utilized to allow students to have experiences in a full range of education career roles, grade levels, subject areas and ability groups. Students continue to build a career portfolio that will be developed throughout the education and training course path. Uniform fee may apply of no more than \$25.00.

Practicum in Education and Training 1

Course: 5333

Grade Placement: 11-12

Prerequisite: Instructional Practices, enrollment form, and provide own transportation

Credit: 2

Site: HCTC (plus assigned elementary/middle school)

Students are assigned to a field-based internship which provides students with the opportunity to apply the knowledge and skills learned in previous courses in an assigned elementary/middle school classroom. Students will plan and direct student instruction as well as work cooperatively with assigned teacher four days a week. Uniform fee may apply of no more than \$25.00.

Practicum in Education and Training 2**Course:** 5334**Grade Placement:** 12**Prerequisite:** Practicum in Education and Training 1 and provide own transportation**Credit:** 2**Site:** HCTC (plus assigned elementary/middle school)

This is the final course in the education and training career cluster and is an extension of the Practicum in Education and Training 1 course. Students are assigned to a field-based internship for the year. Students will have the opportunity to apply the knowledge and skills learned in previous courses in an assigned elementary/middle school classroom. Students will plan and direct student instruction as well as work cooperatively with assigned teacher four days a week. Uniform fee may apply of no more than \$25.00.



CAREER AND TECHNICAL EDUCATION: HEALTH SCIENCE

Course Name	Credit	Grade Levels	Prerequisites
Principles of Health Science	1	9-12	None
Medical Terminology	1	10-12	Biology (rec); Principles of Health Science (rec)
Anatomy and Physiology	1	11-12	Biology and a second science credit
Pathophysiology	1	11-12	Biology and Chemistry
World Health Theory	2	11-12	Principles of Health Science, Chemistry and Biology
Sports Medicine	2	11-12	Principles of Health Science; Medical Terminology or Anatomy (rec)
Biomedical Research	2	11-12	Principles of Health Science, Biology, Chemistry; Medical Terminology (rec)
Patient Care Technician (PCT)	2	12	Principles of Health Science; Medical Terminology or Anatomy (rec); fee
Emergency Medical Responder (EMR) (Dual Credit Optional) (EMSP 1501, EMSP 1160)	2	12	Principles of Health Science <u>and must meet TCC admission standards</u> ; Medical Terminology (rec), Anatomy and Physiology (rec) fee
Electrocardiogram (ECG)/Phlebotomy	2	12	Principles of Health Science; Medical Terminology or Anatomy (rec); fee
Pharmacy Technician	2	12	Principles of Health Science; Upper-level Math and Chemistry (rec); fee

Principles of Health Science

Course: 5861

Grade Placement: 9-12

Prerequisite: None

Credit: 1

Site: BHS, SHS, CTHS

This course provides an overview of therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. To pursue a career in the health science industry, students should learn to think critically, solve problems, and communicate effectively. Students will learn that the five pathways function independently and collaboratively to provide health care.

Medical Terminology

Course: 5811

Grade Placement: 10-12

Prerequisite: Biology (rec), Prin. of Health Science (rec)

Credit: 1

Site: BHS, SHS, CTHS

This course is designed to introduce students to the study 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 and Physiology

Course: 1371

Grade Placement: 11-12

Prerequisite: Biology and a second science credit

Credit: 1

Site: BHS, SHS, CTHS

Anatomy and Physiology is a comprehensive study of the structures and functions of the human body. This course will include dissections and the study of the organization of organs and organ systems. Students will utilize critical thinking skills and scientific problem solving as they conduct lab investigations. This course fulfills one of the graduation science credits.

Pathophysiology

Course: 5851

Grade Placement: 11-12

Prerequisite: Biology and Chemistry

Credit: 1

Site: BHS, SHS, CTHS

In this course students conduct laboratory investigations and fieldwork, use scientific methods and make informed decisions using critical thinking and problem solving. Students study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of diseases. Students will differentiate between normal and abnormal physiology. This course fulfills one of the graduation science credits. **This course does not meet NCAA requirements for a science credit.**

Biomedical Research: Medical Microbiology and Biotechnology I

Course: 5841 and 5842

Grade Placement: 11-12

Prerequisite: Principles of Health Science, Biology, Chemistry; Medical Terminology (rec)

Credit: 2

Site: HCTC

Students will apply advanced academic knowledge and skill to the emerging fields within biomedical research such as agricultural, medical, regulatory, and forensics. Students will conduct laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students will study a variety of topics including functions of cells, nucleic acids, proteins, and genetics while exploring the microbial world. Students will also study pathogenic and non-pathogenic microorganisms, drug resistant microorganisms, and emerging diseases. Students receive one credit of medical microbiology and one credit of Biotechnology I. This course may fulfill two science credits. **This course does not meet NCAA requirements for a science credit.**

HEALTH SCIENCE THEORY

World Health Theory

Course: 5873 and 5874

Grade Placement: 11-12

Prerequisite: Principles of Health Science, Biology, and Chemistry.

Credit: 2

Site: HCTC

This class is designed to build on the concepts learned from the Principles of Health Science class that is offered at the campus level. The focus is learning about different healthcare fields, employability skills, and basic healthcare skills. Students will also examine major world health problems and emerging technologies as solutions to those 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 issues.

Sports Medicine

Course: 5872

Grade Placement: 11-12

Prerequisite: Principles of Health Science, Biology; Medical Terminology or Anatomy and Physiology (rec)

Credit: 2

Site: HCTC

This class is designed to learn the prevention, recognition, treatment and rehabilitation of athletic injuries and illnesses. Students will learn various taping techniques, bracing, splinting, and First Aid/CPR. *This course is for 12th grade students who have **NOT** completed World Health Theory (5873 and 5874).*

Patient Care Technician (PCT)

Course: 5868

Grade Placement: 12

Prerequisite: Principles of Health Science, Biology; Anatomy and Physiology (rec); fee and uniform required

Credit: 2

Site: HCTC

The Patient Care Technician (PCT) program prepares students to work alongside doctors, nurses, and other health care professionals to provide direct patient care in a variety of health care environments. During the PCT program students will develop a wide range of skills and knowledge to provide quality assessment and care for the patients. These skills will include patient care, comfort, and safety, electrocardiography (running EKGs), obtaining lab samples, and phlebotomy (drawing blood). Students enrolled in PCT are **required** to take the PCT certification exam. Scrubs and additional fees for exams are required. Students will be **required** to sit for two of the three certification exams offered through this course. *This course is for 12th grade students who have **NOT** completed World Health Theory (5873 and 5874) or Health Science Theory Sports Medicine (5872).*

Emergency Medical Responder (EMR) (Dual Credit Optional)

Course: 5869 (EMSP 1501, EMSP 1160)

Grade Placement: 12

Prerequisite: Principles of Health Science, Biology, and TCC Admission Standards, Medical Terminology or Anatomy and Physiology (rec); fee and uniform required.

Credit: 2

Site: HCTC

Through the EMR course, students will learn the fundamentals of emergency prehospital care. Students will master normal anatomical conditions so that they will be able to determine what is abnormal in the sick and injured. Students will be challenged to think on their feet and develop both strong leadership and teambuilding skills. Upon successful completion of the didactic portion, the top 15 students who qualify based on grades, attendance, and behavior will have the option to be enrolled in the TCC spring clinical portion, which consists of ride outs with 911 responding ambulances and emergency department shifts. Successful completion of the entire course will enable any student who graduates and is 18yro to sit for the National Registry exam to become and EMR. **Students must be enrolled in TCC for this course. Textbook is approximately \$150. This course is for 12th grade students who have **NOT** completed World Health Theory (5873 and 5874) or Health Science Theory Sports Medicine (5872).*

Pharmacy Technician

Course: 5870

Grade Placement: 12

Prerequisite: Principles of Health Science, Biology; upper level math and chemistry (rec); fee required ~\$100

Credit: 2

Site: HCTC

The objective of the Pharmacy Technician program is to equip students with knowledge, technical skills, and work habits required for an entry-level position in the pharmacy field or related area. Our teaching techniques encourage 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. Upon completion of this course, students are eligible to sit for the PTCE exam to become a Certified Pharmacy Technician. Students interested in becoming a Pharm. Tech., Pharmacist, Clinical Researchers, Pharmaceutical Rep., and other pharmacology-based occupations, would greatly benefit from this class. *This course is for 12th grade students who have **NOT** completed World Health Theory (5873 and 5874) or Health Science Theory Sports Medicine (5872).*

Electrocardiogram (ECG)/Phlebotomy

Course: 5871

Grade Placement: 12

Prerequisite: Principles of Health Science, Biology; fee required

Credit: 2

Site: HCTC

This course provides instruction in operating and troubleshooting an ECG unit, placing leads utilizing 12 lead IKG and the use of ECG Grid paper; recognizing normal and abnormal ECG patterns in all 12 leads and plotting ECG axis; defining medical terminology and integrating structures and functions in anatomy and physiology, ethics and legalities. Upon successful completion of this course students will be eligible to sit for the Certified ECG Technician (CET) exam.

Our comprehensive Phlebotomy course is a complete educational program designed to provide instruction in blood draw and venipuncture. Students will be trained to perform a variety of blood collection methods using proper techniques and safety precautions. Emphasis will be placed on infection prevention, patient identification, and quality assurance. Students interested in a certification in phlebotomy must complete the required national program guidelines and sit for the comprehensive exam. Scrubs and additional fees for exams are necessary for the course. Students will be **required** to sit for one of the two certification exams offered through this course. *This course is for 12th grade students who have **NOT** completed World Health Theory (5873 and 5874), or Health Science Theory Sports Medicine (5872).*

PRACTICUM

Sports Medicine

Course: 5866

Grade Placement: 12

Prerequisite: Biology; Health Science Theory World Health Research, Medical Terminology and Anatomy and Physiology (rec)

Credit: 2

Site: HCTC

This class is designed to learn the prevention, recognition, treatment and rehabilitation of athletic injuries and illnesses. Students will learn various taping techniques, bracing, splinting, and First Aid/CPR. *This course is for 12th grade students who have completed World Health Theory (5873 and 5874).*

Patient Care Technician (PCT)

Course: 5863 and 5863L

Grade Placement: 12

Prerequisite: Health Science Theory World Health Research or Health Science Theory Sports Medicine, Biology; Medical Terminology or Anatomy and Physiology (rec), fee and uniform required

Credit: 2

Site: HCTC

The Patient Care Technician (PCT) program prepares students to work alongside doctors, nurses, and other health care professionals to provide direct patient care in a variety of health care environments. During the PCT program students will develop a wide range of skills and knowledge to provide quality assessment and care for the patients. These skills will include patient care, comfort, and safety, electrocardiography (running EKGs), obtaining lab samples, and phlebotomy (drawing blood). Students enrolled in PCT are **required** to take the PCT certification exam. Scrubs and additional fees for exams are required. Students will be **required** to sit for two of the three certification exams offered through this course. *This course is for 12th grade students who have completed World Health Theory (5873 and 5874) or Health Science Theory Sports Medicine (5872)*

Emergency Medical Responder (EMR) (Dual Credit Optional)

Course: 5864 (EMSP 1501, EMSP 1160)

Grade Placement: 12

Prerequisite: Health Science Theory World Health Research or Health Science Theory Sports Medicine, Biology; TCC Admission Standards, Medical Terminology or Anatomy and Physiology (rec); fee and uniform required.

Credit: 2

Site: HCTC

Through the EMR course, students will learn the fundamentals of emergency prehospital care. Students will master normal anatomical conditions so that they will be able to determine what is abnormal in the sick and injured. Students will be challenged to think on their feet and develop both strong leadership and teambuilding skills. Upon successful completion of the didactic portion, the top 15 students who qualify based on grades, attendance, and behavior will have the option to be enrolled in the TCC spring clinical portion, which consists of ride outs with 911 responding ambulances and emergency department shifts. Successful completion of the entire course will enable any student who graduates and is 18yro to sit for the National Registry exam to become and EMR. **Students must be enrolled in TCC for this course Textbook is approximately \$150. This course is for 12th grade students who have completed World Health Theory (5873 and 5874) or Health Science Theory Sports Medicine (5872)*

Pharmacy Technician

Course: 5865

Grade Placement: 12

Prerequisite: Health Science Theory World Health Research or Health Science Theory Sports Medicine, Biology; upper level math and chemistry (rec); fee required ~\$100

Credit: 2

Site: HCTC

The objective of the Pharmacy Technician program is to equip students with knowledge, technical skills, and work habits required for an entry-level position in the pharmacy field or 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. An emphasis is placed on ethics, accountability, professionalism, and the individual's commitment to pursue lifelong personal and professional development. Upon completion of this course, students are eligible to sit for the PTCE exam to become a Certified Pharmacy Technician. Students interested in becoming a Pharm. Tech., Pharmacist, Clinical Researchers, Pharmaceutical Rep., and other pharmacology-based occupations, would greatly benefit from this class. *This course is for 12th grade students who have completed World Health Theory (5873 and 5874) or Health Science Theory Sports Medicine (5872)*

Electrocardiogram (ECG)/Phlebotomy

Course: 5867

Grade Placement: 12

Prerequisite: Principles of Health Science, Biology; fee required

Credit: 2

Site: HCTC

This course provides instruction in operating and troubleshooting an ECG unit, placing leads utilizing 12 lead IKG and the use of ECG Grid paper; recognizing normal and abnormal ECG patterns in all 12 leads and plotting ECG axis; defining medical terminology and integrating structures and functions in anatomy and physiology, ethics and legalities. Upon successful completion of this course students will be eligible to sit for the Certified ECG Technician (CET) exam. Our comprehensive Phlebotomy course is a complete educational program designed to provide instruction in blood draw and venipuncture. Students will be trained to perform a variety of blood collection methods using proper techniques and safety precautions. Emphasis will be placed on infection prevention, patient identification, and quality assurance. Students interested in a certification in phlebotomy must complete the required national program guidelines and sit for the comprehensive exam. Scrubs and additional fees for exams are necessary for the course. Students will be **required** to sit for one of the two certification exams offered through this course. *This course is for 12th grade students who have completed World Health Theory (5873 and 5874), or Health Science Theory Sports Medicine (5872).*



CAREER AND TECHNICAL EDUCATION: HOSPITALITY AND TOURISM

Course Name	Credits	Grade Levels	Prerequisites
Introduction to Culinary Arts	1	9-12	None
Culinary Arts (Dual Credit Optional) (CHEF 1301, CHEF 1305)	2	10-12	Introduction to Culinary Arts; fee and uniform required
Advanced Culinary Arts (Dual Credit Optional) (HAMG 2301)	2	11-12	Culinary Arts; fee and uniform required
Practicum in Culinary Arts	2	12	Advanced Culinary Arts; provide own transportation to Practicum job site

Introduction to Culinary Arts

Course: 5375

Grade Placement: 9-12

Prerequisite: None

Credit: 1

Site: BHS, SHS, CTHS

This course will allow students to gain introductory knowledge in the food industry focusing on planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. Other areas of focus will be on teamwork and career opportunities.

Culinary Arts (Dual Credit Optional)

Course: 5374 (CHEF 1301, CHEF 1305)

Grade Placement: 10-12

Prerequisite: Introduction to Culinary Arts; uniform and fee required. If taking course as dual credit, student must meet TCC requirements.

Credit: 2

Site: HCTC

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking. This includes hospitality management, production skills and an introduction to the history of culinary. Culinary Arts class teaches students basic techniques of the professional kitchen and “from scratch” cooking. Students will pursue a Texas and National safety and sanitation certification, a requirement to work in any professional kitchen. A foundation of work ethic, professionalism, and teamwork is a focus for the continuation of the program.

Advanced Culinary Arts (Dual Credit Optional)

Course: 5376 (HAMG 2301)

Grade Placement: 11-12

Prerequisite: Culinary Arts; uniform and fee required. If taking course as dual credit, student must meet TCC requirements.

Credit: 2

Site: HCTC

Advanced Culinary Arts continues the academic education of culinary methods and vocabulary with a focus on advanced technique and banquet style production. This class will demonstrate a real-world simulation and provide knowledge of business acumen regarding The Bistro and on-site caterings. An emphasis on teamwork, planning, and preparation are key components to the success of the culinary student.

Practicum in Culinary Arts

Course: 5377

Grade Placement: 12

Prerequisite: Advanced Culinary Arts; uniform and fee and transportation to job site is required

Credit: 2

Site: Practicum job site

Students will work in the culinary industry while being mentored by industry experts and teacher. Students will need to provide their own transportation to their job site. Uniforms may be required, pending job site requirements.



CAREER AND TECHNICAL EDUCATION: HUMAN SERVICES

Course Name	Credits	Grade Levels	Prerequisites
Principles of Human Services	1	8-12	None
Interpersonal Studies	.5	9-12	Principles of Human Services (required for endorsement)
Dollars and Sense	.5	9-12	Principles of Human Services (required for endorsement)
Child Development	1	10-12	Principles of Human Services (required for endorsement)
Counseling and Mental Health	1	11-12	Principles of Human Services (required for endorsement)
Introduction to Cosmetology	1	11	Co-req Cosmetology 1 <u>and</u> provide own transportation; supply and TDLR fee
Cosmetology 1	2	11	<u>Co- req Introduction to Cosmetology and provide own transportation; supply and TDLR fee</u>
Cosmetology 2	3	12	<u>Intro to Cosmetology and Cosmetology 1 and provide own transportation; Lab and supply fee</u>

Principles of Human Services

Course: 5371

Grade Placement: 8-12

Prerequisite: None

Credit: 1

Site: BHS, SHS, CTHS, CMS, EWMS, HMS, MCMC, PVMS, WMS

This course will enable students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, and personal care services.

Interpersonal Studies

Course: 5405

Grade Placement: 9-12

Prerequisite: Principles of Human Services (required for endorsement)

Credit: .5

Site: BHS, SHS, CTHS

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

Child Development

Course: 5330

Grade Placement: 10-12

Prerequisite: Principles of Human Services (required for endorsement)

Credit: 1

Site: BHS, SHS, CTHS

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

Counseling and Mental Health

Course: 5281

Grade Placement: 11-12

Prerequisite: Principles of Human Services (required for endorsement)

Credit: 1

Site: BHS, SHS, CTHS

This course is designed for students to model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Course content includes a focus on career opportunities in counseling and mental health, effective communication techniques, characteristics of various mental illnesses, and use of technology in the profession. Students are expected to apply knowledge of ethical and legal responsibilities, limitations, and the implication of their actions.

Dollars and Sense

Course: 5139

Grade Placement: 9-12

Prerequisite: Principles of Human Services (required for endorsement)

Credit: .5

Site: BHS, SHS, CTHS

Dollars and Sense focuses on consumer practices and responsibilities, money-management processes, decision-making skills, impact of technology, and preparation for human services careers.

Introduction to Cosmetology and Cosmetology 1

Course: 5618 (Introduction to Cosmetology) and 5619 (Cosmetology 1)

Grade Placement: 11

Prerequisite: Introduction to Cosmetology and Cosmetology 1 must be taken together. Students must provide their own transportation; supply fee and Texas Department of Licensing and Regulation (TDLR) fee; uniform required

Credit: 3 total credits

Site: HCTC

This two-year licensing program provides students with career specific training necessary for entry-level employment in cosmetology careers. This includes hair color, hair cutting, shampooing, hairstyling, makeup application, facials, permanent waving, chemical relaxing, manicures and pedicures while observing all state safety and sanitation requirements.

Cosmetology 2

Course: 5621

Grade Placement: 12

Prerequisite: Introduction to Cosmetology and Cosmetology I. Students must provide their own transportation; Lab and state exam fee; uniform required

Credit: 3

Site: HCTC

In the second year, this program continues with a focus on the information and skills necessary to prepare for a career in cosmetology and to pass the Texas State Licensing Board of Cosmetology exam. Students will be **required** to sit for the Cosmetology state certification exam.



Information Technology

CAREER AND TECHNICAL EDUCATION: INFORMATION TECHNOLOGY

Course Name	Credits	Grade Levels	Prerequisites
Principles of Information Technology	1	9-12	None
Computer Maintenance and Lab (Dual Credit Optional) (CPMT 1403, ITNW 1309)	2	10-12	Principles of Information Technology; fee
Networking and Security and Lab (Dual Credit Optional) (ITNW 1425, ITSY 1300)	2	11-12	Computer Maintenance and Lab; provide own transportation to sites; fee
Practicum in Information Technology 1	2	12	Networking and Security and Lab; provide own transportation to sites; fee

Principles of Information Technology

Course: 5096

Grade Placement: 9-12

Prerequisite: None

Credit: 1

Site: BHS, SHS, CTHS

In this course students will develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students will explore a variety of careers in IT, such as Computer Technician, Software Engineer, and Network Administrator. Hands on labs will include building a computer, install Windows and networking computers. In addition, students will learn interpersonal skills to prepare for a rapidly evolving workplace environment.

Networking and Security and Lab (Dual Credit Optional)

Course: 5092 or 5092DC (ITNW 1425, ITSY 1300)

Grade Placement: 11-12

Prerequisite: Computer Maintenance and Lab; provide own transportation to site; fee required. If taking course as dual credit, student must meet TCC requirements.

Credit: 2 and optional TCC dual credit

Site: HCTC

This course continues the study of networking technologies. This high-tech learning environment provides students the knowledge and experience to enter the workforce and/or further their education and training in the computer-networking field. Students work in a lab to prepare for industry certifications and will shadow computer technicians in the industry at sites within the school district. Students will need to provide their own transportation to shadowing sites.

Computer Maintenance and Lab (Dual Credit Optional)

Course: 5091 or 5091DC (CPMT 1403, ITNW 1309)

Grade Placement: 10-12

Prerequisite: Principles of Information and Technology; If taking course as dual credit, student must meet TCC requirements.

Credit: 2 and optional TCC dual credit

Site: HCTC

In this course students will gain knowledge and skills in the area of computer technologies including advanced knowledge of electrical and electronic theory, computer principles, and components related to the installation, diagnosis, service and repair of computer-based technology systems. The course prepares students for the A+ certification.

Practicum in Information Technology 1

Course: 5191

Grade Placement: 12

Prerequisite: Networking and Security and Lab; provide own transportation to IT job site fee required

Credit: 2

Site: Practicum job site

This is the final course in the Information Technology pathway. Students will need to seek employment within the Information Technology field and will need to provide their own transportation to their job site. Students will be monitored by industry mentors and their instructor to apply both critical thinking skills and information technology concepts and standards.



Law and Public Service

CAREER AND TECHNICAL EDUCATION: LAW AND PUBLIC SERVICE

Course Name	Credits	Grade Levels	Prerequisites
Principles of Law, Public Safety, Corrections, and Security	1	9-12	None
Fire Protection Technology 1 Dual Credit (FIRT 1301, FIRT 1329, FIRT 1307, FIRT 1338) <i>course located at TCC Northwest</i>	2	11-12	Principles of Law, Public Safety, Corrections, and Security, <u>and</u> Transportation <u>and</u> TCC admissions
Forensic Science (take with HCTC course)	1	11-12	Biology, Chemistry, <u>and</u> Enrollment in other class held at HCTC
Forensic Science-Accelerated	1	11-12	Biology, Chemistry, <u>and</u> ability to have two consecutive class periods
Law Enforcement 1	1	10-12	Principles of Law, Public Safety, Corrections, and Security
Law Enforcement 2 and Federal Law Enforcement and Protective Services	2	12	Law Enforcement 1; fee
Courts 1: Courts System & Practices / Business Law	2	10-12	Principles of Law, Public Safety, Corrections, and Security
Courts 2: Legal Research and Writing / Advanced Court Systems	2	11-12	Courts 1

Principles of Law, Public Safety, Corrections, and Security

Course: 5910

Grade Placement: 9-12

Prerequisite: None

Credit: 1

Site: BHS, SHS, CTHS

The students will be introduced to professions in law enforcement, security, corrections and fire and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills and knowledge, such as ethics, origins of law, constitutionality, jurisdiction, courtroom procedures, and responsibilities of first responders necessary for careers in law enforcement, fire service, security, and corrections.

Fire Protection Technology 1 Dual Credit

Course: 5918 (FIRT 1301, FIRT1329, FIRT 1307, FIRT 1338)

Grade Placement: 11-12

Prerequisite: Principles of Law, Public Safety, Corrections, and Security and Transportation and TCC admissions

Credit: 2

Site: TCC Northwest

Fire Protection Technology I will introduce students to firefighter safety and development. Students will analyze Texas Commission on Fire Protection rules and regulation, proper incident reporting and records, proper use of personal protections equipment and the principles of fire safety. ***Students must register and pay for the courses and books through Tarrant County College, Northwest Campus.***

Forensic Science (taken w/HCTC course)**Course:** 5912**Grade Placement:** 11-12**Prerequisite:** Biology, Chemistry, and enrollment in other class held at HCTC**Credit:** 1**Site:** HCTC

Forensic Science is a course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. (Only students that will be at the HCTC for 2 periods may take this course.)

Students may fulfill their 4th science requirement by taking Forensic Science

Forensic Science-Accelerated**Course:** 5911**Grade Placement:** 11-12**Prerequisite:** Biology and Chemistry**Credit:** 1 (two consecutive class periods)**Site:** HCTC

Forensic Science is a course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes.

****This course meets for 2 periods a day. Students will complete the year-long course in one semester. Students may fulfill their 4th science requirement by taking Forensic Science.***

Law Enforcement 1**Course:** 5913**Grade Placement:** 10-12**Prerequisite:** Principles of Law, Public Safety, Corrections and Security**Credit:** 1**Site:** BHS, SHS, CTHS

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

Law Enforcement 2 and Federal Law Enforcement and Protective Services**Course:** 5914 and 5914L**Grade Placement:** 12**Prerequisite:** Law Enforcement I and Correctional Services; fee and uniform required**Credit:** 1 each**Site:** HCTC

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

Courts 1: Courts Systems and Practices and Business Law**Course:** 5915 and 5190**Grade Placement:** 10-12**Prerequisite:** Principles of Law, Public Safety, Corrections, and Security**Credit:** 2**Site:** HCTC

This course is an overview of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial through sentencing and appeals and examines the types and rules of evidence. Emphasis is placed on trial advocacy and on practical courtroom procedures.

Courts 2: Legal Research and Writing and Advanced Courts Systems**Course:** 5915L and 5920**Grade Placement:** 11 - 12**Prerequisite:** Courts 1**Credit:** 2**Site:** HCTC

Courts 2 provides students with a foundation to understand the basic mechanics of the U.S. legal system. Building on prior instruction in constitutional issues and the basics of American court systems, this course provides insight into the practical application of the law, as well as civil and criminal procedure, giving students a hands-on opportunity to experience a variety of legal professions. Students will gain an understanding of the attorney-client relationship and the importance of confidentiality, discovery, pretrial motions, jury selection, opening statements, direct and cross examinations, proper use of objections and the rules of evidence, and closing arguments. By conducting elements of a full trial in a mock setting, students will also increase their ability to extemporize appropriately by thinking on their feet. Students will learn how to evaluate a set of facts and mold it into a coherent trial strategy, learning trial practice from the ground floor. Students will also explore the methods and tools used to conduct legal research, develop, and frame legal arguments, produce legal writings such as briefs, memorandums, and other legal documents.



CAREER AND TECHNICAL EDUCATION: MANUFACTURING

Course Name	Credits	Grade Levels	Prerequisites
Manufacturing Engineering 1 and 2	2	10-12	Principles of Applied Engineering and Algebra I
Precision Metal Engineering 2	2	11-12	Precision Metal Engineering 1; fee
Practicum in Manufacturing Engineering	2	12	Precision Metal Engineering 2; transportation to Practicum job site
Introduction to Welding	1	9-12	None
Welding 1 (Dual Credit Optional) (WLDG 1428, WLDG 1430)	2	11-12	Introduction to Welding and 10-hour OSHA certification; Algebra 1 (rec)fee
Welding 2 (Dual Credit Optional) WLDG 1312, WLDG 1434)	2	12	Welding 1 and completion of AWS Level 1 certification; fee

Introduction to Welding

Course: 5528

Grade Placement: 9-12

Prerequisite: None

Credit: 1

Site: BHS, SHS, CTHS

Students will be introduced to welding technology with an emphasis on basic welding laboratory principles and operating procedures. Students will learn the three basic welding processes. Topics include: industrial safety and health practices, hand tool and power machine use, measurement, laboratory operating procedures, welding power sources, welding career potentials, and introduction to welding codes and standards. This course supports integration of academic and technical knowledge and skills. Successful completion of the 10-hour Occupational Safety and Health Administration Manufacturing training exam is a required prerequisite for continuing in the course. **Students who have not passed the exam by the end of the first six weeks will be removed from the course and placed in another elective.**

Manufacturing Engineering 1 and 2

Course: 5526 and 5526B

Grade Placement: 10-12

Prerequisite: Principles of Applied Engineering and Algebra I; fee and uniform required

Credit: 2

Site: HCTC

In Manufacturing Engineering 1 and 2, students will 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. Students will prepare for success in the global economy. The study of manufacturing engineering will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting.

Precision Metal Engineering 2**Course:** 5521**Grade Placement:** 11-12**Prerequisite:** Precision Metal Engineering; fee and uniform required**Credit:** 2**Site:** HCTC

Knowledge and skills in the proper application of Manufacturing Engineering, the design of technology, efficient manufacturing technology and the assessment of the global economy. Advanced students will pursue NIMS (National Institute of Metalworking Skills) certification.

Practicum in Manufacturing Engineering**Course:** 5523**Grade Placement:** 12**Prerequisite:** Precision Metal Engineering 2; uniform may be required by practicum job site**Credit:** 2**Site:** Practicum job site

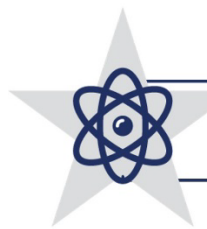
Students will work in the manufacturing engineering industry while being mentored by industry experts and teacher. Students will need to provide their own transportation to their job site. *Uniforms may be required, pending job site requirements.*

Welding 1 (Dual Credit Optional)**Course:** 5524 or 5524DC (WLDG 1428, WLDG 1430)**Grade Placement:** 11-12**Prerequisite:** Introduction to Welding and 10-hour OSHA certification; Algebra 1 (rec) fee and uniform required. If taking course as dual credit, student must meet TCC requirements.**Credit:** 2 and optional TCC dual credit**Site:** HCTC

Welding provides the knowledge, skills and technologies required for employment in metal technology systems. Students develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. This course prepares students for the American Welding Society level one certification.

Welding 2 (Dual Credit Optional)**Course:** 5525 or 5525DC (WLDG 1312, WLDG 1434)**Grade Placement:** 12**Prerequisite:** Welding 1 and successful completion of American Welding Society (AWS) Level 1 certification; fee and uniform required. *If taking course as dual credit, student must meet TCC requirements.***Credit:** 2 and optional TCC dual credit**Site:** HCTC

Welding 2 builds on knowledge and skills developed in Welding 1. Students will develop advanced welding concepts and skills as they relate to personal and career development. This course prepares students for the American Welding Society level 2 certification.



CAREER AND TECHNICAL EDUCATION: SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS (STEM)

Course Name	Credits	Grade Levels	Prerequisites
Principles of Applied Engineering	1	8-12	None
Introduction to Robotics	1	10-12	Algebra 1, Principles of Applied Engineering, and Biology
Manufacturing Engineering 1 and 2	2	10-12	Principles of Applied Engineering and Algebra I
Aerospace 1: Scientific Research and Design and Engineering Design and Problem Solving	2	11-12	Principles of Applied Engineering, Algebra 2 (recommended), Chemistry, Physics, Biology, or IPC; fee
Aerospace 2: Practicum in STEM	2	12	Aerospace 1, Algebra 2 (rec), Chemistry, Physics, Biology or IPC; fee required
Drone Engineering 1: Digital Electronics and Engineering Design and Presentation	2	11-12	Principles of Applied Engineering, Algebra I, and Geometry; fee

Principles of Applied Engineering

Course: 5551

Grade Placement: 8-12

Prerequisite: None

Credit: 1

Site: BHS, SHS, CTHS, CMS, EWMS, HMS, MCMS, PVMS, WMS

This course is an introductory course in the engineering program. The course exposes students to technical drawing including computer aided design (CAD) programs, design concepts and processes, and the building of a product. The course is project-based incorporating basic building skills as a means to investigate design, structure, electricity, aerodynamics, etc.

Introduction to Robotics

Course: 5549

Grade Placement: 10-12

Prerequisite: Principles of Applied Engineering, Algebra 1, Biology

Credit: 1

Site: BHS, SHS, CTHS

This course exposes students to some of the major concepts and technologies that they will encounter as they investigate engineering, robotic, and high-tech careers. Students will employ science, technology, engineering, and mathematical concepts in the solution of real-world challenging situations. VEX EDR and multiple coding styles and languages will be utilized in this course. This course satisfies a science credit for students.

Manufacturing Engineering 1 and 2

Course: 5526 and 5526B

Grade Placement: 10-12

Prerequisite: Principles of Applied Engineering and Algebra I; fee and uniform required

Credit: 2

Site: HCTC

In Manufacturing Engineering 1 and 2, students will 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. Students will prepare for success in the global economy. The study of manufacturing engineering will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting.

Drone Engineering 1: Digital Electronics and Engineering Design and Presentation

Course: 5548 and 5552

Grade Placement: 11-12

Prerequisite: Principles of Applied Engineering, Algebra I, and Geometry

Credit: 1 each

Site: HCTC

This advanced course helps students learn the engineering skills to use robotic design for commercial and personal needs. Through the design process, students transfer advanced academic skills in using software and hardware to build prototypes and test their designs and may earn their Federal Aviation Agency license as a commercial Small Unmanned Aerial System (sUAS) pilot.

Students receive one math credit by taking Digital Electronics.

Aerospace 1: Scientific Research and Design and Engineering Design and Problem Solving

Course: 5921/5922

Grade Placement: 11-12

Prerequisite: Principles of Applied Engineering, Algebra II (rec), Chemistry, Physics, Biology, or IPC; fee required

Credit: 1 each

Site: HCTC

Students learn the engineering required for current aerospace needs. Students may design, build, and operate unmanned aerial vehicles such as hypersonic boost gliders, high performance rockets reaching up to 5 miles, altitude at 970mph.

Students receive one science credit by taking Scientific Research and Design.

Aerospace 2: Practicum in STEM

Course: 5923

Grade Placement: 12

Prerequisite: Aerospace 1; fee required

Credit: 2

Site: HCTC

In this advanced course students will apply engineering concepts for concurrent aerospace needs. Students will design, build, and operate rockets.



Transportation, Distribution, and Logistics

CAREER AND TECHNICAL EDUCATION: TRANSPORTATION, DISTRIBUTION, AND LOGISTICS

Course Name	Credits	Grade Levels	Prerequisites
Introduction to Transportation Technology	.5	9-12	None
Automotive Technology 1 (Dual Credit Optional) (AUMT 1405, AUMT 1410)	2	10-12	Introduction to Transportation Technology and 10-hour OSHA certification; fee
Automotive Technology 2 (Dual Credit Optional) (AUMT 1407, AUMT 2417)	2	11-12	Automotive Technology 1; fee
Practicum in Automotive Technology	2	12	Automotive Technology 2; student required to obtain job in automotive industry; transportation to job site
Introduction to Aircraft Technology and Aircraft Airframe Technology Dual Credit (AERM 1315 and 1205-Fall) (AERM 1310 and 1208-Spring)	3	11-12	Introduction to Aircraft Technology; TCC Admission Standards; Course is located at Tarrant County College Alliance Airport
Practicum TDL-Aircraft Technology/Aircraft Mechanic Dual Credit (AERM 1314 – Fall) (AERM 1303 – Spring)	3	12	Intro to Aircraft Tech and Aircraft Airframe Tech; TCC Admission Standards; Course is located Tarrant County College Alliance Airport

Introduction to Transportation Technology

Course: 5631

Grade Placement: 9-12

Prerequisite: None

Credit: .5

Site: BHS, SHS, CTHS

This course will explore the automobile, alternate forms of transportation, and the infrastructure of transportation. Models, simulations, and computer aided design (CAD) will be used to investigate transportation in various forms of transportation. Much of the course will be project-based investigations. Students will complete the 10-hour OSHA certification.

Automotive Technology 1: Maintenance and Light Repair (Dual Credit Optional)

Course: 5633 or 5633DC (AUMT 1405, AUMT 1410)

Grade Placement: 10-12

Prerequisite: Introduction to Transportation Technology; uniform and class fee required. If taking course as dual credit, student must meet TCC requirements.

Credit: 2

Automotive Technology courses introduce the knowledge and skills necessary in the repair, maintenance, and diagnosis of motor vehicles. The goal of this program is to prepare students to earn their A.S.E. (Automotive Service Excellence) certifications and to gain entry level employment in the automotive field. Students will also learn life skills that will help them succeed at graduation

Automotive Technology 2: Automotive Service (Dual Credit Optional)

Course: 5634 or 5634DC (AUMT 1407, AUMT 2417)

Grade Placement: 11-12

Prerequisite: Automotive Technology 1; uniform and class fee required. If taking course as dual credit, student must meet TCC requirements.

Credit: 2

Site: HCTC

Automotive Technology courses introduce the knowledge and skills necessary in the repair, maintenance, and diagnosis of motor vehicles. The primary goal of this program is to prepare students to successfully take the A.S.E. (Automotive Service Excellence) certification exams and to gain entry level employment in the automotive field. Students will also learn life skills that will help them succeed at graduation.

Practicum in Automotive Technology

Course: 5637

Grade Placement: 12

Prerequisite: Automotive Technology 2; student required to obtain job in automotive industry; transportation to job site is required

Credit: 2

Site: job site

Students will work in the automotive industry while being mentored by industry experts and teacher. Students will need to provide their own transportation to their job site. *Uniforms may be required, pending job site requirements.*

Introduction to Aircraft Technology and Aircraft Airframe Technology - Dual Credit

Course: 5635 (AERM 1315, AERM 1205, AERM 1310, AERM 1208)

Grade Placement: 11-12

Prerequisite: TCC Admission Standards, Introduction to Transportation Technology and must provide own transportation to TCC Northwest Campus/Alliance Airport

Credit: 3

Site: TCC Northwest/Alliance Airport

Advanced Aircraft Technology is designed to provide job- specific training for entry-level employment in the highly technical career field of aircraft mechanics. Instruction includes aircraft electrical and electronic systems, service and repair of hydraulic systems, engines, airframes, and rigging. This is a dual credit course offered at the Tarrant County College Northwest campus. Successful completion of both semesters will result in the awarding of 12 hours of college credit. ***Students must register and pay for the courses and books through Tarrant County College, Northwest Campus.***

Aircraft Powerplant Technology and Advanced Transportation Systems Laboratory - Dual Credit

(AERM 1314, AERM 1303)

Course: 5636

Grade Placement: 12

Prerequisite: - Intro to Aircraft Technology and Aircraft Airframes Technology, TCC Admission Standards and must provide own transportation to Tarrant County College Northwest Campus/Alliance Airport

Credit: 3

Site: TCC Northwest/Alliance Airport

Students must register and pay for the courses and books through Tarrant County College, Northwest Campus.

COMMUNICATIONS

<i>Course Name</i>	<i>Credits</i>	<i>Grade Levels</i>	<i>Prerequisites</i>
Professional Communications	.5	9-12	None
Professional Communications Dual Credit (SPCH 1311)	.5	9-12	Course is offered at TCC Campus or Virtual.
Debate I	1	9-12	None
Debate II	1	10-12	Debate I
Debate III	1	11-12	Debate II
Oral Interpretation I	1	10-12	Teacher Approval
Oral Interpretation II	1	10-12	Oral Interpretation I <u>and</u> Teacher Approval
Oral Interpretation III	1	11-12	Oral Interpretation II <u>and</u> Teacher Approval

Professional Communications

Course: 5088

Grade Placement: 9-12

Prerequisite: None

Credit: .5

Professional Communications blends written, oral, and graphic communication in a career-based environment. Students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct internet research.

Debate I

Course: 1101

Grade Placement: 9-12

Prerequisite: None

Credit: 1

This course concentrates on argumentation and debate strategies. The current national topic and various other social issues will be debated. Organization, thinking and performance under pressure are skills that will be developed. The accrued abilities of reading, writing, listening, speaking and analyzing may be tested through competitive debate. Students should have strong reading and writing skills. Participation in individual speaking and debate contests is strongly encouraged.

Debate II

Course: 1102

Grade Placement: 10-12

Prerequisite: Debate I

Credit: 1

This course develops further the topics covered in Debate I. Students will study specific formats and forums for debate, the processes of logic and critical thinking. Competitive debate will provide practice of written and oral argument, listening, speaking and analyzing. Participation in individual speaking and debate contests is required.

Debate III**Course:** 1103**Grade Placement:** 11-12**Prerequisite:** Debate II**Credit:** 1

This course continues the development of topics studied in Debate II. Students will have the opportunity to specialize in a specific debate format, to continue studying the processes of logic and critical thinking, and to explore a variety of popular philosophies. Participation in individual speaking and debate contests is required.

Oral Interpretation I**Course:** 1120**Grade Placement:** 10-12**Prerequisite:** Teacher Approval/Audition**Credit:** 1**Oral Interpretation II****Course:** 1121**Grade Placement:** 10-12**Prerequisite:** Oral Interpretation I *and* Teacher Approval/Audition**Credit:** 1**Oral Interpretation III****Course:** 1122**Grade Placement:** 11-12**Prerequisite:** Oral Interpretation II *and* Teacher Approval/Audition**Credit:** 1

In this course, students study the oral reading or performance of a literary text as a form of communication art. Students select, research, analyze, adapt, interpret, and perform literary texts and focus on the intellectual, emotional, sensory, and aesthetic levels of texts to attempt to capture the entirety of the author's work. Individual or group performances of literature will be presented and evaluated. Competitive events require time outside of school.

FINE ARTS: ART

Course Name	Credits	GPA Level	Grade Levels	Prerequisites
Art I	1	1	8-12	None
Advanced Art I	1	2	8-11	Teacher Recommendation
Partners in Art I	1	1	9-12	Teacher Recommendation
Art II Drawing	1	1	9-12	Art I
Advanced Art II Drawing	1	2	9-12	Advanced Art 1 <u>or</u> Teacher Recommendation
Art II Photography	1	1	9-12	Art I
Art II Sculpture	1	1	9-12	Art I
Advanced Art III Drawing	1	2	10-12	Advanced Art II <u>or</u> Teacher Recommendation
Advanced Art III Graphic Design	1	2	10-12	Advanced Art II <u>or</u> Teacher Recommendation
Advanced Art III Photography	1	2	10-12	Art II Photography <u>or</u> Teacher Recommendation
Advanced Art III Sculpture	1	2	10-12	Art II Sculpture <u>or</u> Teacher Recommendation
Art History AP	1	3	10-12	None
Art IV Studio Art-Drawing Portfolio AP	1	3	11-12	Advanced Art III Drawing or Teacher Recommendation
Art IV 2-D Design Portfolio AP	1	3	11-12	Advanced Art III Drawing or Advanced Art III Photo or Teacher Recommendation
Art IV Studio Art 3D Design AP	1	3	11-12	Art II Sculpture <u>and</u> Advanced Art III Sculpture

Level 1- no extra points to GPA

Level 2- 5 extra points to GPA

Level 3- 10 extra points to GPA

* A materials and supplies fee is assessed for all high school visual arts courses.

Art I

Course: 2010

Grade Placement: 8-12

Prerequisite: None

Credit: 1

The first semester of Art 1 will introduce the student to drawing and color study using the elements and principles of design. Drawing will consist of sequential learning steps with emphasis on developing value skills. Color studies will include but not be restricted to using water base paint. The second semester, which builds on first semester skills, will include the study of painting, printmaking, sculpture, and ceramics. Printmaking will involve relief printing; sculpture will include additive construction; and ceramics will consist of hand building methods of pinch, coil, and slab. During both semesters art past and contemporary masterpieces will be part of most units. **Art I is basic to all other art courses. Therefore, all students wishing to take Art II or higher-level courses must have successfully completed Art I.**

Advanced Art I

Course: 2015

Grade Placement: 8-11

Prerequisite: Teacher Recommendation

Credit: 1

The Advanced Art curriculum will follow the College Board directives of the Advanced Placement General and Drawing Portfolio requirements. Advanced Art 1 provides learning opportunities for students beyond those available in the regular Art 1 class by extending the state essential knowledge and skills through drawing and color study (first semester). Students also learn what will be expected of them for the AP Portfolio Examination. The second semester focuses on painting, printmaking, sculpture, and ceramics.

Partners in Art I

Course: If you are interested in Partners in Art, please see your counselor.

Grade Placement: 9-12

Prerequisite: Teacher Recommendation

Credit: 1

This is a success oriented visual arts course for students with special needs and peer partners. This course can be taken for a fine arts credit or as an elective. Partners in Art I will enhance the existing academic schedule by offering a class that includes students with disabilities and students without disabilities working together to encourage visual art skills while developing respect for one another. This comprehensive study stresses the elements and principles of art and their uses in two and three-dimensional art. Various media and art forms are used to gain understanding of the basics of art.

Art II Drawing

Course: 2020

Grade Placement: 9-12

Prerequisite: Art 1

Credit: 1

The first semester of Art II Drawing is designed to continue a sequential study of drawing and colored media. Formal compositions will be completed in realistic, abstract, and non-objective styles. Art history/appreciation will be part of each study. Second semester, which builds on first semester skills, will include painting, printmaking techniques, and three-dimensional studies. Students will build upon skills learned in Art 1 in sculpture and ceramics. Art history/appreciation also will be linked to each unit.

Advanced Art II Drawing

Course: 2025

Grade Placement: 9-12

Prerequisite: Advanced Art 1 or Teacher Recommendation

Credit: 1

The Advanced Art II Drawing curriculum is designed to spiral and expand the Art I or Advanced Art I curriculum. The Advanced Art II course work follows College Board outlines for Advanced Placement General and Drawing Portfolios. Students will apply the elements and principles of art in all compositions to a greater proficiency than other Art II students as well as connect art history and criticism to those productions. Students will develop skills in drawing and color theory application beyond the average Art II student as they continue reviewing requirements of the AP examination. Second semester extends learning through higher expectations in painting, printmaking, sculpture, and ceramics. ***Advanced Art II is an honors credit class recommended for students seriously looking at a visual art career.***

Art II Photography

Course: 2050

Grade Placement: 9-12

Prerequisite: Art I

Credit: 1

In this course students will strengthen art skills through the study of design and composition. The focus of this course is photography, both film and digital. Students will learn to compose photographs in an artistic manner, develop film and print photographs. Artistic awareness, critical thinking, imaginative expression, appreciation of art culture and aesthetic judgment are emphasized.

Art II Sculpture**Course:** 2071**Grade Placement:** 9-12**Prerequisite:** Art I**Credit:** 1

Sculpture II includes objective and nonobjective three-dimensional assignments. Construction skills and classical techniques are an integral part of each assignment. Students will use various medias including wood and clay.

Advanced Art III Drawing**Course:** 2035**Grade Placement:** 10-12**Prerequisite:** Advanced Art II or Teacher Recommendation**Credit:** 1

Advanced Art III is an advanced studio course for the college-bound and career-oriented student. It is designed for talented art students who wish to pursue college level studies while in high school. Emphasis will be on advanced drawing and painting styles, 2-D and 3-D design, and color study. Computer manipulated works are incorporated into the curriculum. Students will compile portfolios that fulfill current College Board requirements.

Advanced Art III Graphic Design**Course:** 2053**Grade Placement:** 10-12**Prerequisite:** Advanced Art II or Teacher Recommendation**Credit:** 1

This is a course to begin addressing a very broad interpretation of two-dimensional design issues. This course is intended to prepare students to develop specific design skills that could be used to help them develop as AP Design Portfolio. Students are asked to demonstrate proficiency in two-dimensional design using a variety of art forms. These could include, but are not limited to, graphic design typography, digital imaging, photography, collage, fabric design, weaving, illustration, painting, and printmaking.

Advanced Art III Photography**Course:** 2055**Grade Placement:** 10-12**Prerequisite:** Art II Photography**Credit:** 1

In this course students will further develop art skills through the study of design and composition in photography. Artistic awareness, critical thinking, imaginative expression, appreciation of art culture and aesthetic judgment are emphasized.

Advanced Art III Sculpture**Course:** 2075**Grade Placement:** 10-12**Prerequisite:** Art II Sculpture**Credit:** 1

This third-year course is an in-depth study of sculpture and will challenge the students with problems on an advanced level. Students will develop a personal style and demonstrate effective use of selected sculptural media in solving special three-dimensional problems and assignments.

Art History AP**Course:** 2085**Grade Placement:** 10-12**Prerequisite:** None**Credit:** 1

Advanced Placement Art History is the equivalent to an introductory course in university level art history. An exam will be administered and assessed by the College Board in May. Many colleges and universities offer advanced placement and/or credit to students who have performed successfully on the AP Art History Exam. ***Students are expected to take the Advanced Placement Exam in the Spring.***

Art IV Studio Art-Drawing Portfolio AP**Course:** 2045**Grade Placement:** 11-12**Prerequisite:** Advanced Art III Drawing and/or Teacher Approval**Credit:** 1

In this course students will address a very broad interpretation of drawing issues and media. Students will explore drawing issues such as light and shade, line quality, rendering of form, composition, surface manipulation, and illusion of depth through a variety of two-dimensional media. ***All students are expected to submit a portfolio for Advanced Placement review.***

Art IV 2-D Design Portfolio AP**Course:** 2065**Grade Placement:** 11-12**Prerequisite:** Advanced Art III Drawing or Advanced Art III Photo or Teacher Approval**Credit:** 1

In this course students will address two-dimensional design issues. Design involves purposeful decision making about how to use the elements and principles of art in an integrative way. Students are expected to demonstrate mastery of 2-D design through any two-dimensional medium or process, including, but not limited to, graphic design, digital imaging, photography, collage, fabric design, weaving, illustration, painting, and printmaking. ***All students are expected to submit a portfolio for Advanced Placement review.***

Art IV Studio Art 3-D Design AP**Course:** 2076**Grade Placement:** 11-12**Prerequisite:** Art II Sculpture and Advanced Art III Sculpture and/or Teacher Approval**Credit:** 1

In AP Studio Art 3D Design students will address sculptural issues. Design involves purposeful decision making about using the elements and principles of art in an integrative way. Students are expected to demonstrate mastery of 3-D design through any three-dimensional approach, including but not limited to figurative or nonfigurative sculpture, architectural models, metal work, ceramics, and three-dimensional fiber arts. ***All students are expected to submit a portfolio for Advanced Placement review.***

FINE ARTS: DANCE

Course Name	Credits	Grade Levels	Prerequisite
Dance I/Aerobic Activities	2	9-12	None
Dance II	1	10-12	Dance I <u>and</u> Teacher Approval
Dance/Drill Team I-IV	1	9-12	Competitive Tryout
Dance Composition/Improvisation I, II	1	11-12	Successful completion of Dance II

Dance I/Aerobic Activities

Course: 3310

Grade Placement: 9-12

Prerequisite: None

Credit: 2

Dance I will explore various styles of dance including ballet, lyrical, jazz, hip hop, and others. In addition to learning a variety of routines and combinations, students will cover the fundamentals, technique, vocabulary, and history of each dance style. Creativity and expression will be encouraged through student choreography, both individually and as a group. The class will consist of both physical and written activities.

Beginning in the 2011-2012 school year, the Texas Essential Knowledge and Skills for aerobic activities is embedded in the Dance I course to allow students to earn physical education credit upon successful completion of each semester. A grade of "P" (Passing) will be recorded on a student's transcript for Aerobic Activities.

Awarding of the aerobic activities credit is dependent upon teacher certification in both physical education and fine arts and is subject to change.

Dance II

Course: 3320

Grade Placement: 10-12

Prerequisite: Dance 1 and Teacher Approval

Credit: 1

Dance II refines skills acquired in Dance I, while introducing students to new and challenging elements and skills. Dance II is an intermediate to advanced level dance class. Students have prior knowledge of dance elements, theory, technique and terminology.

Dance/Drill Team

Course: 3331, 3332, 3333, 3334

Grade Placement: 9-12

Prerequisite: Competitive Tryout

Credit: 1 each

Dance Team is a precision dance/drill team that performs at athletic events and school and community functions. Dance Team specializes in jazz, high kick, precision pom, hip hop, lyrical, and modern dance styles. The Dance Team travels and competes at the regional, state, and national level. Membership is determined through auditions in the spring.

Students in dance/drill team also receive .5 credit PE Substitution Drill Team in the fall up to 1 credit for participation in extracurricular (after school) activity.

Dance Composition/Improvisation**Course:** 3351, 3352**Grade Placement:** 11-12**Prerequisite:** Successful completion of Dance II**Credit:** 1

Dance Composition/Improvisation is designed to give students a broad introduction to dance composition and choreography. Students will learn to generate and manipulate movement through exercises and improvisation and will expand those skills into creating dances.

FINE ARTS: CHOIR AND BAND

Course Name	Credits	GPA Level	Grade Levels	Prerequisites
Treble Choir I or Tenor/Bass Choir I	1	1	9-12	None
Treble or Tenor/Bass Choir II-IV	1 each	1	10-12	Audition Only
Vocal Ensemble I-IV	1 each	1	9-12	Concurrent Enrollment in a Choir Course, Audition <i>and</i> Director Approval
Band I-IV	1 each	1	9-12	Previous Year's Band Experience
Jazz Ensemble I-IV	1 each	1	9-12	Concurrent Enrollment in a Band Course, Audition, <i>or</i> Director Approval
Music Theory AP	1	3	11-12	Strong Background in Music Theory, Concurrent Enrollment in Band, Choir <i>or</i> Outside Instrumental Music Classes
Color Guard I-IV	1	1	9-12	Audition Only

Level 1- no extra points to GPA

Level 2- 5 extra points to GPA

Level 3- 10 extra points to GPA

CHORAL MUSIC

Treble Choir I or Tenor/Bass Choir I

Course: 2211/2221

Grade Placement: 9-12

Prerequisite: None

Credit: 1

A training choir for students with little to no choral experience. Basics of choral singing, basic theory and music fundamentals will be studied. Students will be encouraged to participate in auditions for a performing choir at the end of the course.

Treble Choir II-IV or Tenor/Bass Choir II-IV

Course: 2212/2222, 2213/2223, 2214/2224

Grade Placement: 10-12

Prerequisite: Audition Only

Credit: 1 each

These choir classes emphasize choral singing, music theory, listening and performance. Repertoire includes: traditional choral music and music of all style periods and genres. 9th, 10th, 11th and 12th grade students will comprise various classes according to achievement levels checked by audition. The classes may be composed of all males or all females, or they may be mixed according to number and distribution of voices available. The performing groups include Treble Choir, Men's Choir, Select Women's Choir, and Varsity Mixed Choir. These groups may participate in UIL competition. Concert performances are required.

Vocal Ensemble I-IV**Course:** 2251, 2252, 2253, 2254**Grade Placement:** 9-12**Prerequisite:** Concurrent Enrollment in a Choir Course, Audition and Director Approval**Credit:** 1 each

These choir classes emphasize choral singing, music theory, listening and performance. Repertoire includes: traditional choral music and music of all style periods and genres. 9th, 10th, 11th and 12th grade students will comprise various classes according to achievement levels checked by audition. The classes may be composed of all males or all females, or they may be mixed according to number and distribution of voices available. The performing groups include Treble Choir, Men's Choir, Select Women's Choir, and Varsity Mixed Choir. These groups may participate in UIL competition. Concert performances are required.

INSTRUMENTAL MUSIC

Band I-IV

Course: 2311, 2312, 2313, 2314

Grade Placement: 9-12

Prerequisite: Previous Year's Band Experience

Credit: 1 each

Students in band have the opportunity to further their fundamental skills on an instrument and enhance their musical understanding, while also preparing specific musical programs throughout the year. Enrollment in band also promotes mental and physical discipline, good citizenship through group endeavor, cultural growth, and an enhanced ability to form musical value judgments through critical listening. Students will participate in both the marching band **AND** a concert band ensemble as assigned by the Director of Bands. Students enrolling in band should have been enrolled in band at their respective school in the previous year. Attendance is mandatory at all rehearsals and performances. ***Students in marching band also receive .5 credit PE Substitution Marching Band in the fall up to 1 credit for participation in extracurricular (after school) activity.***

Jazz Ensemble I-IV

Course: 2351, 2352, 2353, 2354

Grade Placement: 9-12

Prerequisite: Concurrent Enrollment in a Band Course or Teacher Approval

Credit: 1 each

Students in Jazz Ensemble perform a variety of jazz literature including traditional swing, Latin, and rock/funk styles. Students will be exposed to and perform elementary improvisation both individually and in the ensemble. The Jazz Ensemble gives several concerts, performs in competition, and plays civic concerts throughout the year. Attendance is required at all rehearsals and performances. Membership requires a high degree of musical skill and personal discipline. Students performing on a traditional instrument (Saxophone, Trumpet, Trombone, and Percussion) must be enrolled in a Band class in addition to the Jazz Ensemble course. Students performing non-traditional instruments (Piano, Guitar, and Bass) must receive director approval before enrolling.

Color Guard I-IV

Course: 2341, 2342, 2343, 2344

Grade Placement: 9-12

Prerequisite: Audition Only

Credit: 1

Activities include preparations and rehearsals for marching band performances, individual performances, festivals, school activities and Winter Guard competitions. Note: Each fall semester of completed marching band activity fulfills a semester of required PE. Two fall semesters are required for 1 full credit.

Music Theory AP

Course: 2375

Grade Placement: 11-12

Prerequisite: Strong Background in Music Theory; Concurrent Enrollment in Band or Choir.

Credit: 1

Students will learn and understand the essential components and function of written music. The content of this course comprises knowledge of the basic musical elements, principles of melody writing, functions of harmony, exposure to different musical textures, and how each of these aspects are connected to form what we know as music. This course is designed to prepare students for the music theory curriculum of an undergraduate music degree, while also giving students the opportunity for producing, understanding, and enhancing their own musical compositions. Students should have a basic knowledge of reading music and have acquired basic performance skills in voice or an instrument prior to enrolling in the course. ***Students who take Music Theory AP are expected to take the Advanced Placement Exam.***

FINE ARTS: THEATRE

Course Name	Credits	Grade Levels	Prerequisites
Theatre Arts I	1	9-12	None
Theatre Arts II	1	10-12	Theatre Arts I and Teacher Approval
Theatre Arts III-IV	1 each	11-12	Theatre Arts II and Teacher Approval
Technical Theatre I	1	9-12	
Technical Theatre II-IV	1 each	10-12	Teacher Approval
Theatre Production I-IV	1 each	9-12	Teacher Approval
Musical Theatre I-III	1	9-12	Teacher Approval

Theater Arts I

Course: 2110

Grade Placement: 9-12

Prerequisite: None

Credit: 1

This course is an introductory class for beginning theatre students. The course offers the student a chance to explore the world of theatre through units in theatre history, voice and diction, pantomime, improvisation, and play structure. This student is given opportunities to analyze scripts, write original monologues, perform in duet scenes, and learn basic characterization techniques and become familiar with important stage terminology. ***Students who were in Theatre in 8th grade and who have auditioned/interviewed will be placed in Theatre Arts I Select upon teacher approval.***

Theatre Arts II

Course: 2120

Grade Placement: 10-12

Prerequisite: Theatre Arts I and Teacher Approval

Credit: 1

This intermediate course extends on the student's training in Theatre I by offering more advanced studies in script analysis, acting theories, play writing, and directing skills. The class also explores advanced characterization in both classical and contemporary styles.

Theatre Arts III/IV

Course: 2140/2150

Grade Placement: 11-12

Prerequisite: Theatre Arts II or III and Teacher Approval

Credit: 1 each

These classes are offered to the dedicated theatre student who wishes to take his/her acting skills to the next level. The courses are designed for those advanced students who are seeking to work in a university theatre program, community theatre, or even a career in theatre, Radio/ TV or Film. These students are offered an opportunity to utilize the acting theories used in many colleges and universities, a chance to perform their own productions, and a unit designed to improve college audition skills and portfolios.

Technical Theatre I**Course:** 2131**Grade Placement:** 9-12**Prerequisite:** none**Credit:** 1

Students in this elective course will focus on concepts and skills in theatre production. Topics to be covered include properties, lighting, costumes, makeup, sound, and stage craft skills. Aesthetic growth through appreciation of theatrical events is also stressed. Students will construct sets and handle the technical aspects of dramatic and musical performance at the school. Attendance at some evening events is required.

Technical Theatre II-IV**Course:** 2132, 2133, 2134**Grade Placement:** 10-12**Prerequisite:** Teacher Approval**Credit:** 1 each

These courses are for those theatre students wishing to work behind the scenes of a production. "Hands on" training is offered in areas of set design and construction, set painting, stage lighting and design, stage make-up techniques, prop construction, house management, publicity design, set design, and stage management. These classes are responsible for the technical elements that go into all of the theatre productions as well as those of other performance groups on campus and the community.

Theatre Production I-IV**Course:** 2161, 2162, 2163, 2164**Grade Placement:** 9-12**Prerequisite:** Teacher Approval**Credit:** 1 each

Students may earn credit for Theater Production by participating in theatrical productions, such as but not limited to; the fall play, the annual musical, and UIL-OAP competition. Students must provide their own transportation and after school and evening rehearsals are required. Participation in public performance is required!

Health/Physical Education

<i>Course Name</i>	<i>Credits</i>	<i>Grade Levels</i>	<i>Prerequisites</i>
Health Education	.5	8-12	None
Dance I / Skill-Based Lifetime Activities	2	9-12	Students Must Register for Dance I
Cheerleading (Gymnastics)	1	9-12	Competitive Tryouts
Lifetime Fitness and Wellness Pursuits (Boys/Girls)	1	9-12	None
Lifetime Recreation and Outdoor Pursuits	1	9-12	None
Skill-Based Lifetime Activities	1	9-12	None
Partners in PE (Lifetime Fitness and Wellness Pursuits)	1	9-12	Application and Teacher Approval
Beginning Gymnastic I-IV (Boys/Girls)	1	9-12	None

Health Education

Course: 1810

Grade Placement: 8-12

Prerequisite: None

Credit: .5

The course enables each student to develop an understanding of the attitudes and habits that are conducive to healthful living. The Health education class will help students develop skills that will make them health-literate adults. Students will use problem-solving, research, goal- setting and communication skills to protect their health and that of the community.

Dance I / Skill-Based Lifetime Activities

Course: 3310

Grade Placement: 9-12

Prerequisite: Students Must Register for Dance I

Credit: 2 (1 Physical Education + 1 Fine Art)

Students in Dance I also receive Skill-Based Lifetime Activities credit. Skill-Based Lifetime Activities target a variety of movements that promote and encourage health-related fitness. Students enrolled in this course will acquire skills and knowledge in a variety of cardiovascular activities such as jogging, power walking, step aerobics, and circuit training.

Cheerleading (PE Substitution)

Course: 3241, 3242, 3243, 3244

Grade Placement: 9-12

Prerequisite: Competitive Tryouts

Credit: 1 each

The cheerleaders perform at athletic events and other school and community functions as well as represent their school at regional and national cheer competitions. Cheer class is designed to improve the technical and performance skills of the high school cheerleaders both individually and as a group.

Lifetime Fitness and Wellness Pursuits (Boys/Girls)

Course: 3011/3021

Grade Placement: 9-12

Prerequisite: None

Credit: 1

The purpose of this course is to motivate students to strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness. Instructional units focus on basic conditioning, advantages of weight training, proper nutrition, and the appraisal of individual fitness levels.

Lifetime Recreation and Outdoor Pursuits

Course: 3014

Grade Placement: 9-12

Prerequisite: None

Credit: 1

This course will apply movement principles in order to demonstrate competency in two or more outdoor activities, such as hiking, camping, fishing, and orienteering. The student will also develop new motor skills and understand that lifelong activities promote good health.

Skill-Based Lifetime Activities

Course: 3012

Grade Placement: 9-12

Prerequisite: None

Credit: 1

Students are expected to participate in a wide range of individual and team sports that can be pursued for a lifetime. In this course students develop health-related fitness and an appreciation for teamwork and fair play. Students learn skills, rules, and regulations for participation. The instructional focus of this course is on the benefits of participating in physical activities throughout a lifetime.

Beginning Gymnastic (Boys/Girls)

Course: 3141-44 (Boys)

3151-54 (Girls)

Grade Placement: 9-12

Prerequisite: None

Credit: 1

The purpose of this course is an introduction to the basic skills that make up the sport of gymnastics. Instructional units focus on basic flips, handstands, body strength and other aspects of the sport. No previous experience in gymnastics is required. Boys and girls gymnastics classes are separate, not co-ed.

Partners in PE (PIP) – Lifetime Fitness and Wellness Pursuits

Course: 3390

Grade Placement: 9-12

Prerequisite: Application and Teacher Approval

Credit: 1

Partners in PE is a success-oriented PE program featuring supervised peer tutors and individualized learning and instruction. The purpose of the program is to encourage physical activity, increase knowledge of health and fitness strategies, and assist in the acquisition of individual lifetime recreation activities and/or skills associated with team sports. Please see your counselor if you are interested in participating.

PRIVATE OR COMMERCIALY SPONSORED PHYSICAL ACTIVITY

Students may be awarded up to 4 physical education credits upon documentation of 80 hours of approved private or commercially-sponsored programs conducted on or off campus. Eighty documented hours of supervised participation must be submitted by an approved, trained instructor for a maximum of .5 credit per semester. ***Prior permission is required.***

JOURNALISM

<i>Course Name</i>	<i>Credits</i>	<i>Grade Levels</i>	<i>Prerequisites</i>
Journalism	1	9-12	None
Advanced Journalism-Publications I-III	1 each	10-12	Journalism
Photojournalism	.5	9-12	None

Journalism

Course: 1130

Grade Placement: 9-12

Prerequisite: None

Credit: 1

This course provides an introduction to the history and basics of journalism to include editing, layout and publishing. Areas of study will focus on general news writing, including both newsletters and newspapers.

Advanced Journalism -Publications I-III

Course: 1146, 1147, 1148

Grade Placement: 10-12

Prerequisite: Journalism and Teacher Approval

Credit: 1

This course explores the methods and processes of journalistic products, including both the school yearbook and newspaper. By specializing in one area or combining a variety of roles, students have the opportunity to develop or refine skills as writers, photographers, layout editors, copy editors, and/or managing editors. Students are expected to enter class with the knowledge of how to write in the journalistic style, basic photography experience, and a basic understanding of computers.

Photojournalism

Course: 1160

Grade Placement: 9-12

Prerequisite: None

Credit: .5

Students in Photojournalism communicate in a variety of forms for a variety of audiences and purposes. Students are expected to plan, interpret, and critique visual representation, carefully examining their product for publication. Students will become analytical consumers of media and technology to enhance their communication skills. Students will study the laws and ethical considerations that impact photography. Technology, visual, and electronic media are used as tools for learning as students create, clarify, critique, and produce effective visual representations. Students will refine and enhance their journalistic skills and produce photographs for a journalistic publication.

LANGUAGES OTHER THAN ENGLISH

Course	Credits	GPA Levels	Grade Levels	Prerequisite
American Sign Language I	1	1	9-12	None
American Sign Language II	1	1	10-12	American Sign Language I
American Sign Language III	1	1	11-12	American Sign Language I, American Sign Language II
American Sign Language IV	1	1	12	American Sign Language I, American Sign Language II, American Sign Language III
American Sign Language I Dual Credit (SLNG 1401) <i>Course offered on TCC Campus</i>	1	2	9-12	Student must meet all TCC entrance requirements and provide own transportation to campus.
American Sign Language II Dual Credit (SLNG 1402) <i>Course offered on TCC Campus</i>	1	2	10-12	Student must meet all TCC entrance requirements and provide own transportation to TCC campus.
French I	1	1	9-12	None
French II	1	1	10-12	French I
Advanced French II	1	2	10-12	French I
Advanced French III	1	2	11-12	French II See Suggested Guidelines
French IV AP	1	3	12	French III See Suggested Guidelines
German I	1	1	9-12	None
German II	1	1	10-12	German I
Advanced German II	1	2	10-12	German I
Advanced German III	1	2	11-12	German II See Suggested Guidelines
German IV AP	1	3	12	German III See Suggested Guidelines
Spanish I	1	1	8-12	None
Spanish II	1	1	9-12	Spanish I
Advanced Spanish II	1	2	9-12	Spanish I
Advanced Spanish III	1	2	10-12	Spanish II See Suggested Guidelines
Spanish for Native Speakers I & II	2	1	9-10	Placement Exam
Spanish IV AP	1	3	11-12	Spanish III See Suggested Guidelines
Advanced Spanish V Spanish Literature for Spanish Speakers	1	2	9	8th Grade Spanish IV AP /Heritage Speaker
Spanish V AP	1	3	10-12	Spanish IV AP
Spanish III Dual Credit (SPAN 2311) <i>Course offered on TCC Campus</i>	1	2	10-12	Spanish II (Advanced Recommended), Student must meet all TCC entrance requirements and provide own transportation to TCC campus.
Special Topics in Language and Culture	1	1	10-12	Placement by LOTE Exit Committee
Special Topics in Languages and Culture Foreign Exchange	1	1	11-12	Completion of or enrollment in German III
Advanced Computer Science	1	2	9-12	Algebra I

AP Computer Science Principles	1	3	10-12	Algebra I
AP Computer Science A	2	3	10-12	Algebra 1 and Advanced Computer Science or AP Computer Science Principles

Level 1- no extra points to GPA

Level 2- 5 extra points to GPA

Level 3- 10 extra points to GPA

Suggested Guidelines for Advanced Placement Languages Other Than English

- Successful completion of language courses taken previously with an average of 80 or above
- Students encouraged to seek teacher advisement
- Student should have passed STAAR

These suggested guidelines are designed to aid the student in choosing the course in which he/she will be most successful.

American Sign Language I

Course: 1930

Grade Placement: 9-12

Prerequisite: None

Credit: 1

American Sign Language I is an introduction to the language and to American Deaf culture. The main emphasis is on communication, both receptive and expressive. Students will recognize the interrelationships of languages and develop a cultural appreciation of the Deaf world.

American Sign Language II

Course: 1940

Grade Placement: 10-12

Prerequisite: American Sign Language I

Credit: 1

American Sign Language II allows students to continue to develop receptive and expressive skills as well as expand their vocabulary and repertoire of grammatical structures. Alongside this additional language development, students continue to explore Deaf culture.

American Sign Language III

Course: 1950

Grade Placement: 11-12

Prerequisite: American Sign Language I, American Sign Language II

Credit: 1

American Sign Language III is a course where students continue to build their receptive and expressive skills by adding additional grammatical features such as location classifiers, quantifiers, and spatial agreement.

American Sign Language IV

Course: 1960

Grade Placement: 12

Prerequisite: American Sign Language I, American Sign Language II, American Sign Language III

Credit: 1

American Sign Language IV allows students to study ASL poetry and literature as well as Deaf history, culture, and community. Students further their sign fluency through involvement with the Deaf community. Students also explore professions which utilize ASL skills.

French I

Course: 1610

Grade Placement: 9-12

Prerequisite: None

Credit: 1

This course is designed as an introduction to the basic structure and vocabulary of the French language. Pronunciation, speaking, and grammar are emphasized through oral and written exercises. Emphasis is placed on the development of basic vocabulary. French culture will also be introduced.

French II

Course: 1620

Grade Placement: 10-12

Prerequisite: French I

Credit: 1

This course builds on the skills acquired in French I. The basic structure and vocabulary from the first level will be reviewed. Students will continue to develop skills in speaking, listening, reading, and writing as their knowledge of the language increases. Linguistic practice is conducted in a cultural context.

Advanced French II

Course: 1625

Grade Placement: 10-12

Prerequisite: French I

Credit: 1

This course includes thematic vocabulary and expanded grammar concepts in a cultural and contextualized environment. This course builds on the skills acquired in French I as students continue to develop speaking, listening, reading, and writing skills. This course prepares students for Advanced French III as students are introduced to AP writing and literature.

Advanced French III

Course: 1635

Grade Placement: 11-12

Prerequisite: French II See Suggested Guidelines

Credit: 1

This course builds on the skills acquired in French I and II. Structure and vocabulary from the previous courses will be reviewed. Students will develop more advanced skills in speaking, listening, reading, and writing through the use of the language in the classroom. Students are introduced to French literature, and communicative skills are emphasized. **Students who excel in this course may seek advanced placement testing for the possibility of earning college credit.**

French IV AP

Course: 1645

Grade Placement: 12

Prerequisite: French III (See Suggested Guidelines)

Credit: 1

The French Language and Culture AP course is designed to provide students with a learning experience equivalent to that of an introductory college course. The course provides opportunities for students to demonstrate their proficiency in French across six groups of learning objectives identifying what students should know and be able to do across the three modes of communication. These objectives include Spoken Interpersonal Communication, Written Interpersonal Communication, Audio, Visual, and Audiovisual Interpretive Communication, Written and Print Interpretive Communication, Spoken Presentational Communication, and Written Presentational Communication. Students increase their knowledge of cultures through the study of history, literature, art, music, and current events, make comparisons between languages and between cultures, and use French in real-life settings. French is spoken almost exclusively in the French Language and Culture AP course. **Extra time is required on the part of AP students for class**

preparation, outside reading, and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses. Students who take French Language and Culture AP are expected to take the Advanced Placement Exam in the spring.

German I

Course: 1710

Grade Placement: 9-12

Prerequisite: None

Credit: 1

This course is designed as an introduction to the basic structure and vocabulary of the German language. Pronunciation, speaking, and grammar are emphasized through oral and written exercises. Emphasis is placed on the development of basic vocabulary. German culture will also be introduced.

German II

Course: 1720

Grade Placement: 10-12

Prerequisite: German I

Credit: 1

This course builds on the skills acquired in German I. The basic structure and vocabulary from the first level will be reviewed. Students will continue to develop skills in speaking, listening, reading, and writing as their knowledge of the language increases. Linguistic practice is conducted in a cultural context.

Advanced German II

Course: 1725

Grade Placement: 10-12

Prerequisite: German I

Credit: 1

This course includes thematic vocabulary and expanded grammar concepts in a cultural and contextualized environment. This course builds on the skills acquired in German I as students continue to develop speaking, listening, reading, and writing skills. This course prepares students for Advanced German III as students are introduced to AP writing and literature.

Advanced German III

Course: 1735

Grade Placement: 11-12

Prerequisite: German II (See Suggested Guidelines)

Credit: 1

This course builds on the skills acquired in German I and II. Structure and vocabulary from the first courses will be reviewed. Students will develop more advanced skills in speaking, listening, reading, and writing through use of the language in the classroom. Students are introduced to German literature, and communicative skills are emphasized. ***Students who excel in this course may seek advanced placement testing for the possibility of earning college credit.***

German IV AP

Course: 1745

Grade Placement: 12

Prerequisite: German III (See Suggested Guidelines)

Credit: 1

The AP German Language and Culture course engages students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of products, both tangible (e.g., tools, books, music) and intangible (e.g., laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspectives (values, attitudes, and assumptions that underlie both practices and products). The three modes of communication (Interpersonal, Interpretive, and Presentational) defined in the Standards for Foreign Language Learning in the 21st Century are foundational to the AP German Language and Culture course. The AP German Language and Culture course takes a holistic approach to language proficiency and recognizes the complex interrelatedness of comprehension and comprehensibility, vocabulary usage, language

control, communication strategies, and cultural awareness. The AP German Language and Culture course strives to promote both fluency and accuracy in language use. The course is taught in the target language. ***Extra time is required on the part of AP students for class preparation, outside reading, and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses. Students who take German Language and Culture AP are expected to take the Advanced Placement Exam in the spring.***

Spanish I

Course: 1510

Grade Placement: 8-12

Prerequisite: None

Credit: 1

This course is designed as an introduction to the basic structure and vocabulary of the Spanish language. Pronunciation, speaking, and grammar are emphasized through oral and written exercises. Emphasis is placed on the development of basic vocabulary. Hispanic culture will also be introduced.

Spanish II

Course: 1520

Grade Placement: 9-12

Prerequisite: Spanish I

Credit: 1

This course builds on the skills acquired in Spanish I. Basic structure and vocabulary from the first level will be reviewed. Students will continue to develop skills in speaking, listening, reading, and writing as their knowledge of the language increases. Linguistic practice is conducted in a cultural context.

Advanced Spanish II

Course: 1525

Grade Placement: 9-12

Prerequisite: Spanish I

Credit: 1

This course includes thematic vocabulary and expanded grammar concepts in a cultural and contextualized environment. This course builds on the skills acquired in Spanish I as students continue to develop speaking, listening, reading, and writing skills. This course prepares students for Advanced Spanish III as students are introduced to AP writing and literature.

Advanced Spanish III

Course: 1535

Grade Placement: 10-12

Prerequisites: Spanish II (See Suggested Guidelines)

Credit: 1

This course builds on the skills acquired in Spanish I and II. Structure and vocabulary from the first courses will be reviewed. Students will develop more advanced skills in speaking, listening, reading, and writing through use of the language in the classroom. Students are introduced to Spanish literature, and communicative skills are emphasized. ***Students who excel in this course may seek advanced placement testing for the possibility of earning college credit.***

Spanish for Native Speakers I & II

Course: 1561 and 1562

Grade Placement: 9-10

Prerequisite: Placement Exam

Credit: 2

This course is designed for students who demonstrate, through a placement test, skills in understanding and speaking Spanish but who need to give greater attention to reading, writing, and conventions of the language. The course is conducted almost entirely in Spanish.

Spanish IV AP

Course: 1545

Grade Placement: 11-12

Prerequisite: Spanish III (See Suggested Guidelines)

Credit: 1

The Spanish Language and Culture AP course is designed to provide students with a learning experience equivalent to that of an introductory college course. The course provides opportunities for students to demonstrate their proficiency in Spanish across six groups of learning objectives identifying what students should know and be able to do across the three modes of communication. These objectives include Spoken Interpersonal Communication, Written Interpersonal Communication, Audio, Visual, and Audiovisual Interpretive Communication, Written and Print Interpretive Communication, Spoken Presentational Communication, and Written Presentational Communication. Students increase their knowledge of the cultures of the Spanish-speaking world through the study of history, literature, art, music, and current events to make connections between their learning in the Spanish classroom setting, their learning in other disciplines, and their daily lives. Spanish is spoken almost exclusively in the Spanish Language and Culture AP course. ***Extra time is required on the part of AP students for class preparation, outside reading, and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses. Students who take Spanish Language and Culture AP are expected to take the Advanced Placement Exam in the spring.***

Advanced Spanish V Spanish Literature for Spanish Speakers

Course: 1565

Grade Placement: 9

Prerequisite: 8th Grade Spanish IV AP See Suggested Guidelines

Credit: 1

Advanced Spanish V is an accelerated course for heritage speakers. This is an introductory course to the Spanish V AP Literature course. The course is designed to introduce students to the formal study of a representative body of Peninsular and Latin American literary texts. Additionally, students will further explore the five C's - communication, culture, connections, comparisons, and communities - at the advanced proficiency level. Students will acquire additional vocabulary and sophistication in their use of the target language through projects, literature, intensified oral practice, and the study of grammatical constructions all within the context of a real-world setting.

Spanish V AP

Course: 1555

Grade Placement: 10-12

Prerequisite: Spanish IV AP See Suggested Guidelines

Credit: 1

The AP® Spanish Literature and Culture course is designed to provide students with a learning experience equivalent to that of an introductory college course in literature written in Spanish. The course introduces students to the formal study of a representative body of texts from Peninsular Spanish, Latin American, and U.S. Hispanic literature. The course provides opportunities for students to demonstrate their proficiency in Spanish across the three modes of communication (interpersonal, interpretive, and presentational) and the five goal areas (communication, cultures, connections, comparisons, and communities) outlined in the Standards for Foreign Language Learning in the 21st Century. The overarching aims of the course are to provide students with ongoing and varied opportunities to further develop their proficiencies across the full range of language skills with special attention to critical reading and analytical writing and to encourage them to reflect on the many voices and cultures included in a rich and diverse body of literature written in Spanish. ***Extra time is required on the part of AP students for class preparation, outside reading, and completion of assignments. AP courses provide students with a learning experience equivalent to that obtained in most college introductory courses. Students who take Spanish Literature and Culture AP are expected to take the Advanced Placement Exam in the spring.***

Special Topics in Language and Culture**Course:** 1505**Grade Placement:** 10-12**Prerequisite:** Placement by LOTE Exit Committee**Credit:** 1

Description: Students will demonstrate novice level communication skills required in a LOTE level 1 course. They will also develop a greater understanding of other cultures, make connections to other disciplines, draw comparisons between languages and cultures, and effectively engage in global communities.

Special Topics in Languages and Culture Foreign Exchange**Course:** 1506**Grade Placement:** 11-12**Prerequisite:** Completion of or enrollment in German III**Credit:** 1

Description: This course is an immersion program for students who have completed or enrolled in German III. Students travel to Germany with a group of 10-20 German III students and an EMS ISD German teacher for a three-week immersion experience as part of the German American Partnership Program (GAPP).

COMPUTER SCIENCE

<i>Course Name</i>	<i>Credits</i>	<i>Grade Levels</i>	<i>Prerequisites</i>
Advanced Computer Science	1	9-12	Algebra I
AP Computer Science Principles	1	10-12	Algebra I
AP Computer Science A	2	10-12	Algebra 1 and Advanced Computer Science or AP Computer Science Principles

Advanced Computer Science

Course: 5070

Grade Placement: 9-12

Prerequisite: Algebra I

Credit: 1

Advanced Computer Science will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts. This course can count as a LOTE credit. (Computer Science I)

AP Computer Science Principles

Course: 5072

Grade Placement: 10-12

Prerequisite: Algebra I

Credit: 1

Course is designed to be equivalent to a first-semester introductory college computing course. Students are introduced to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world. Students will develop a range of skills and develop effective communication and collaboration skills. Technology topics covered include creativity, abstraction, data and information, algorithms, programming, internet, and global impact. This course can count as a LOTE credit.

AP Computer Science A

Course: 5075A/5075B

Grade Placement: 10-12

Prerequisite: Algebra 1 and Advanced Computer Science or AP Computer Science Principles recommended

Credit: 2

This college level computer science course is designed to prepare students for the Advanced Placement Computer Science Examination and is recommended for college bound students who wish to major in computer science or an analytical field. This course includes the study of advanced programming techniques, file management, data structures and an introduction to Object-Oriented Programming. Java is the language used for completing program assignments. The District's expectation is that the student will take the appropriate AP test. Effective August 27, 2018, 43 TexReg 5529 course may be credited as 1 mathematics and 1 LOTE credit. EMS Students receive 1 Math AP credit and 1 LOTE Pass/Fail credit.

MILITARY SCIENCE - ROTC

Course Name	Credits	Grade Levels	Prerequisites
Junior Reserve Officer Training Corps I	1	9-12	None
Junior Reserve Officer Training Corps II	1	10-12	JROTC I
Junior Reserve Officer Training Corps III	1	11-12	JROTC II
Junior Reserve Officer Training Corps IV	1	12	JROTC III

Junior Reserve Officer Training Corps I

Course: 3380

Prerequisite: None

Grade Placement: 9-12

Credit: 1

Site: SHS

JROTC I is the introductory course for all new cadets. Students will focus on becoming effective cadet followers as they learn basic Air Force JROTC customs and courtesies, dress and appearance standards, and drill fundamentals. ***Students enrolled in this course receive physical education substitution credit.***

Junior Reserve Officer Training Corps II

Course: 8012

Prerequisite: JROTC I

Grade Placement: 10-12

Credit: 1

Site: SHS

JROTC II is designed for second year cadets. These students will generally help train new cadets, lead smaller extracurricular teams or clubs, or manage a specific functional area within the cadet corps.

Junior Reserve Officer Training Corps III

Course: 8013

Prerequisite: ROTC II

Grade Placement: 11-12

Credit: 1

Site: SHS

JROTC III is intended for third year students. These junior and senior cadets will focus on leading larger groups of cadets and managing larger programs affecting the entire Cadet Group.

Junior Reserve Officer Training Corps IV

Course: 8014

Prerequisite: ROTC III

Grade Placement: 12

Credit: 1

Site: SHS

JROTC IV is intended for fourth year students. These senior cadets have experienced the entire JROTC program and are generally responsible for running all cadet programs. Fourth year cadets may also be assigned special corps projects or a position as an instructor's aide.

JUNIOR RESERVE OFFICER TRAINING CORPS (JROTC) PROGRAM OVERVIEW

Air Force JROTC (AFJROTC) offers a one to four-year elective course of study designed to **“develop citizens of character dedicated to serving their nation and community.”** This program uses traditional classroom instruction along with military-style training techniques to help students (referred to as “cadets”) grow in the areas of personal responsibility, self-discipline, and leadership. Although students do not incur a military service commitment for taking JROTC, they can earn early promotions if they enlist after graduation.

Cadets of all grades are required to wear AFJROTC uniforms once a week. Uniforms are loaned to cadets once they demonstrate the ability to meet basic Air Force grooming standards (haircuts, shave, and cosmetics). AFJROTC dress and appearance requirements are outlined in Air Force Instruction 36-2903 (https://static.e-publishing.af.mil/production/1/af_a1/publication/afi36-2903/afi36-2903.pdf). Failure to maintain these standards will result in failing grades and dismissal from the program.

Although the specific topic of study rotates each year, cadets will learn about Aerospace Science, Leadership Education, and wellness each semester and each week. Aerospace Science (AS) subjects include history of flight, exploring space, and global cultural studies. Leadership Education (LE) focuses on building better citizens through lessons on Air Force traditions and customs, drill and ceremony (marching), and life/career skills. The wellness component of each semester consists of weekly physical training (PT) which is designed to motivate cadets to lead an active, healthy lifestyle. **Students enrolled in JROTC I receive physical education substitution credit.**

The rotation of subject matter ensures students can take JROTC classes all four years without repeating a course of study (See SY 16-17 JROTC Curriculum for a detailed description for each subject). This also allows for mixed classes of freshman through seniors where more experienced cadets can practice leadership skills learned from past years. The key distinction between JROTC I, II, III, and IV comes from these additional leadership requirements levied on students as they progress through the program. The program’s goal is to establish a cadet-run “corps” which serves the cadets, the school, and the community.

OTHER ELECTIVES

<i>Course Name</i>	<i>Credits</i>	<i>Grade Levels</i>	<i>Prerequisites</i>
Peer Assistance and Leadership I (PAL 1)	1	11-12	Application / Teacher Approval
Peer Assistance and Leadership II (PAL 2)	1	12	PAL I

Peer Assistance & Leadership I (PAL 1)

Course: 1825

Grade Placement: 11-12

Prerequisite: Application or Teacher Approval

Credit: 1 (Double Block Class)

This course provides selected students with an opportunity to be trained to work as a peer facilitator with younger students on their own campus or from feeder middle and/or elementary schools. PAL students will learn skills which will enable them to help younger students have a positive and productive school experience.

Peer Assistance & Leadership II (PAL 2)

Course: 1826

Grade Placement: 12

Prerequisite: PAL

Credit: 1 (Double Block Class)

This course provides selected students the opportunity to continue to develop their skills working as a peer facilitator with younger students on their own campus or from feeder middle and/or elementary schools. PAL 2 students will expand their skills learned in PAL 1. Using these skills, they will be able to continue to help younger students have a positive and productive school experience.