

High School Program of Studies 2016-2017



Spring Branch Independent School District

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DEFINING SUCCESS

What do we want to achieve with the Spring Branch Plan?

Spring Branch ISD believes that a great school system:

- ★ builds on the strengths and gifts of each child,
- ★ provides students from poverty the same opportunities for success after high school as students from non-poverty homes,
- ★ instills in every student the belief that they can achieve more than they think possible, and
- ★ assures that every adult in the system is committed to the successful completion of some form of higher education for every child.

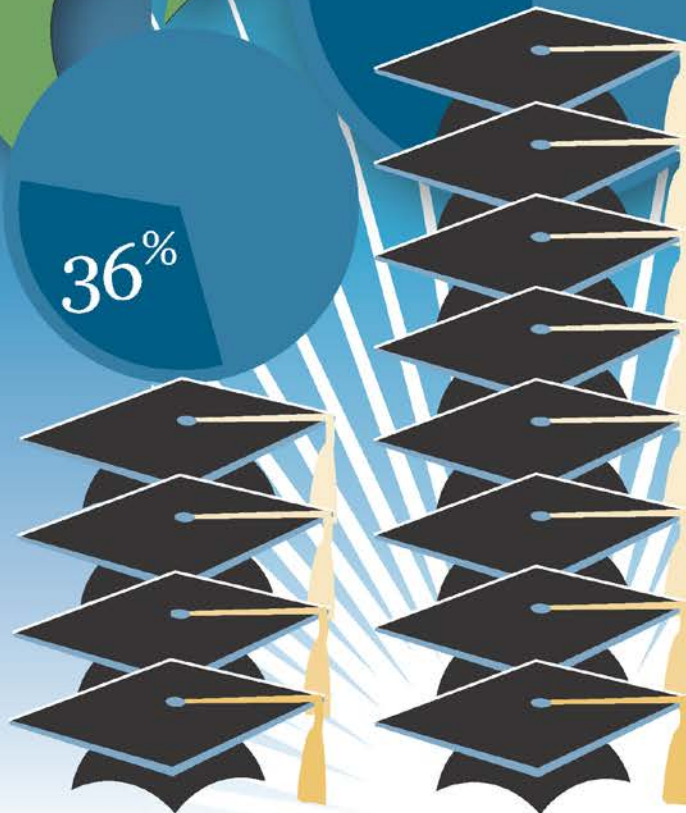


SBISD will *double* the number of students completing a technical certificate, military training, two-year degree or four-year degree.

Spring Branch T-2-4

GOAL
72%

36%





Spring Branch T-2-4

Our Goal

Spring Branch ISD will double the number of students completing a Technical certificate, military training, or a 2-year or 4-year degree.

Our Beliefs

We believe a great school system:

- ★ *builds on the strengths and gifts of each child,*
- ★ *provides students from poverty the same opportunities for success after high school as students from non-poverty homes,*
- ★ *instills in every student the belief that they can achieve more than they think possible, and*
- ★ *assures that every adult in the system is committed to the successful completion of some form of higher education for every child.*

The Spring Branch Way

Our Core Values



Our Core Values serve as guiding principles that undergird and inform our actions, behaviors and decisions.

Every Child

We put students at the heart of everything we do.

Collective Greatness

We, as a community, leverage our individual strengths to reach challenging goals.

Collaborative Spirit

We believe in each other and find joy in our work.

Limitless Curiosity

We never stop learning and growing.

Moral Compass

We are guided by strong character, ethics and integrity.



Spring Branch Independent School District
Inspiring minds. Shaping lives.

www.springbranchisd.com

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GENERAL INFORMATION

Academic Program Categories

Academic Program Categories include:

- Grade Level
- Pre-Advanced Placement (Pre-AP)
- Advanced Placement (AP)
- International Baccalaureate (IB)
- Dual Credit/Early College Program
- English for Speakers of Other Languages (ESOL)
- Gifted & Talented
- Sheltered Instruction
- Special Education
- Virtual Learning

Grade Level

These courses meet the requirements as set forth by the Texas Education Agency as academic Grade Level courses. Each course has a set of Texas Essential Knowledge and Skills (TEKS) that students must learn in the course. Enrollment in programs other than Grade Level requires special consideration.

Pre-Advanced Placement (Pre-AP)

The purpose of the Pre-AP Initiative is to engage ninth and tenth grade students in active, high-level learning, thereby ensuring that the students develop the skills, habits of mind, and concepts needed to succeed in college-level courses. Rigorous curriculum and instruction challenge the students to expand their knowledge and skills in preparation for the college-level environment of AP courses. Pre-AP courses require more homework and a faster-paced learning environment, but provide greater opportunity to explore a subject in greater depth, with greater rigor. SBISD is committed to expanded access in challenging courses as it seeks to prepare every student for post-secondary success. Weighted grades are awarded for Pre-AP courses in the four core subject areas. (Language Arts, Math, Science and Social Studies)

AP—Advanced Placement

AP courses are college-level courses based on College Board curriculum. They are fast-paced and require more academic dedication and homework than Grade Level courses. They are rigorous and challenging, and build high-level critical thinking skills in specific content areas. The Pre-AP/AP Parent/Student Contract must be signed and submitted to the teacher.

IB—International Baccalaureate

The International Baccalaureate® (IB) is a non-profit educational foundation offering four highly-respected programmes of international education that develop the intellectual, personal, emotional, and social skills needed to live, learn, and work in a rapidly-globalizing world. Schools must be authorized, by the IB organization, to offer any of the programme.

DC—Dual Credit

A student may enroll in academic courses for college credit while simultaneously earning high school credit in 11th and/or 12th grade at one of the participating Institutions of Higher Education such as Houston Community College, University of Houston Downtown or University of St. Thomas (check with your counselor for any updates). These are college-level courses which are more rigorous and will require more homework. The student must meet qualifications (see page 12 for additional details).

English for Speakers of Other Languages (ESOL)

This program is designed to meet the needs of English Language Learners (ELLs). ELLs receive intensive instruction in English from certified English as Second Language (ESL) teachers trained in recognizing and addressing language differences. This program is an integral part of the total school program and is based on the Texas Essential Knowledge and Skills (TEKS) and English Language Proficiency Standards (ELPS) as required by the state. Placement in these classes is determined by the Language Proficiency Assessment Committee (LPAC).

GENERAL INFORMATION

Sheltered Instruction

Sheltered instruction occurs in general education content-specific classes offered to English Language Learners (ELLs) for state credit in high school. A sheltered content class incorporates second language acquisition strategies and support systems to communicate meaning in the content area. These sheltered classes are taught by teachers certified in a content area and trained in sheltered instruction. The sheltered classes cover all mandated TEKS; incorporate English Language Proficiency Standards (ELPS); and focus on modifying the instructional pacing and methods and accommodating materials for instruction.

Gifted and Talented (GT)

In order to participate in a GT class, students must be identified as “gifted and talented” through the district selection process. Students may be referred for the GT program by contacting the counselor’s office. The secondary GT identification process takes place in the spring for services to begin the following school year. Students may be identified to receive GT services in Language Arts/Social Studies, Mathematics/Science, or in all four core subject areas. Teachers of GT students have been trained to differentiate the curriculum to meet the needs of this population. Differentiation includes providing for GT students’ preferences for abstract learning, in-depth research and complex content. GT and Pre-AP/AP courses may be combined.

Special Education

For eligible students, course placement is determined by the Admission, Review and Dismissal (ARD) Committee, given consideration of present levels of performance and individual program goals.

Virtual Learning

Students interested in taking on-line classes should check with their counselor for course offerings. On-line learning will be an option for those students who have need of an on-line course for graduation and who meet other criteria specified by their school.

Additional information about SBISD instructional programs can be found at:

Secondary Grading Expectations www.springbranchisd.com/gradingExpectations

Secondary Student Handbook www.springbranchisd.com/handbooks

GENERAL INFORMATION

Credit Requirements and GPA

Credit requirements for graduation must all be **state-approved**.

The calculation of a high school student's grade point average for rank in class is based on grade points assigned as follows:

Course classifications for weighted grade points are defined as:

- P** = Advanced Placement
- Q** = Pre-Advanced Placement
- G** = Gifted/Talented
- I** = International Baccalaureate
- D** = Dual Credit (effective for students entering high school beginning in 2014-2015)

LEVEL	A	B	C	D	F
Numeric Grade	90-100	80-89	75-79	70-74	69 & below
Advanced (P, Q, G, I, D)*	7	6	5	4	0
Grade Level	6	5	4	3	0
Modified (V)	5	4	3	2	0
Basic/Functional	4	3	2	1	0

Weighted grade points (P/Q/G/I/D) may be awarded for only one course in each of the four core curricular areas (English, Mathematics, Science, and Social Studies) per year in grades 9-12. The courses approved for weighted grade points are:

- **English:** English I, II, III, IV
- **Mathematics:** Geometry, Algebra II, Pre-Calculus, Statistics, Calculus, Independent Study (only specific courses qualify; see counselor)
- **Science:** Biology I, II; Chemistry I, II; Physics I, II, C; Environmental Science AP
- **Social Studies:** World Geography, World History, U.S. History, U.S. Government, Economics, European History, Psychology, Human Geography, Sociology

Grade Point Average (GPA)

- Is determined by dividing the total grade points by the number of semester courses.
- Both grades, the failing grade and the retake grade, for courses repeated to regain credit are included in calculating the GPA.
- Only courses taken during the school day on campus will be counted for GPA purposes. This means such courses as original credit summer school courses, correspondence courses, and on-line courses not taken during the school day will count for credit but not for GPA. The only exception is for courses that have to be repeated due to failure.
- Grades from high school courses brought forward from middle school do not count in high school GPA.

Class Rank and Grade Point Average (GPA) are calculated using the semester averages from ninth, tenth, eleventh, and first semester of the twelfth grade.

Grade Level Classification in High School

The number of credits required for classification purposes follows University Interscholastic League (UIL) guidelines. All students entering high school from middle school will be classified as 9th graders for the first year regardless of the number of high school credits earned in middle school or through credit by examination.

GENERAL INFORMATION

The following chart indicates the number of credits required for each grade level in high school.

9th Grade	0 state credits
10th Grade	5 state credits
11th Grade	11 state credits
12th Grade	17 state credits

In addition to the above, all students classified as seniors must be able to fulfill graduation requirements by the end of the school year (defined as August 1–July 31) in which they are classified as seniors, including summer graduation.

Graduation Ceremony

In order to participate in the graduation ceremony, each student must have met **all** graduation requirements, including passing all required courses and mastery of appropriate state assessments.

Programs That Can Help Students Earn College Credit in High School

Advanced Placement

The College Board offers a series of exams called Advanced Placement Exams which may allow a student to earn college credit. Each college has its own criteria for awarding credit, so students should check their preferred colleges' catalogs and web sites.

Spring Branch ISD high schools offer both Pre-AP and AP courses to prepare students for the AP exams. The work level is more difficult and demanding than in Grade Level courses because they are designed to provide students with a college-level experience in high school. Pre-AP and AP courses are awarded extra grade points, one per core subject area, with a maximum of four per year.

The following guidelines provide a profile of a student who typically experiences success in Pre-AP/AP courses:

- Successful completion of prerequisite coursework.
- Current or previous successful performance in related area/course.
- 85th percentile or higher on the most recent standardized achievement test or other district-identified testing measure.
- Teacher recommendation.

Careful consideration should be made before enrolling in a Pre-AP or AP course.

- Curriculum alignment and required reading vary between Grade Level and Pre-AP/AP courses.
- Schedule changes from Pre-AP/AP courses to Grade Level courses may only occur at specified times. Please refer to the Pre-AP/AP Contract on pages 7-8 for specific information.
- If there is not an opening in a Grade Level class the same period, students may have schedule changes that affect other classes and experience teacher changes.
- SBISD Grading Expectations include a provision for grade enhancement when a change is made from Pre-AP/AP courses to Grade Level courses at the end of a grading period within a semester. The adjustment raises the numerical grade from the Pre-AP/AP course to a grade in the next higher letter grade range for the Grade Level course. The adjustment is NOT an automatic 10 points. These guidelines can be found on the school and district web sites.
- For AP courses for which there are no grade level equivalents, students must have at least a "C" average to remain in the course at end of the 1st six weeks. The parent/guardian of a student with a "D" average who wishes to remain in the course must sign a statement documenting that they understand the student will not have the opportunity to exit the course until the end of the semester. These courses include:

Art: Studio Art AP, AP Art History

Foreign Language: Courses levels IV-VI

Mathematics: Statistics AP, Calculus AB, BC, Computer Science AP

Science: Environmental Science AP, Physics B, Physics C, Biology AP, Chemistry AP

Social Studies: Euro History AP, Psychology AP (2nd semester only), US History AP

GENERAL INFORMATION

Distrito Escolar Independiente de Spring Branch

CONTRATO *PRE-AP/AP* DE PADRES/ESTUDIANTES

Este contrato llenado y firmado deberá ser sometido con la forma del curso que hayas seleccionado si optas por inscribirte en las clases de Nivel Pre-Avanzado (*Pre-AP*) ó Nivel Avanzado (*AP*).

Firma del Estudiante: _____ Escuela: _____

Firma del Padre: _____ Grado: _____ Año Escolar: _____

Favor de seleccionar cada clase de *Pre-AP/AP* en la cual deseas registrarte:

Inglés Matemáticas Ciencias Estudios Sociales Electiva(s) _____

El objeto de las reglas de entrada y salida del *Pre-AP/AP* es para proveer información a los padres y a los estudiantes y para facilitar el éxito del estudiante en cursos académicos avanzados. Los cursos *Pre-AP/AP* se ofrecen a cualquier estudiante que desee tomarlos, pero se recomienda que los padres y los estudiantes se fijen en el perfil de los estudiantes quienes típicamente tienen éxito en los cursos de *Pre-AP/AP*. **La decisión de matricularse en los cursos *Pre-AP/AP* al final es la responsabilidad de los padres y de los estudiantes.** Las clases *Pre-AP/AP* en el Distrito Escolar Independiente de Spring Branch estimulan y retan a los estudiantes a un nivel académico avanzado. Por lo tanto, *Pre-AP/AP* requiere que los estudiantes se comprometan a asignaturas de lectura y escritura analíticas más independientes dentro y fuera del salón de clases.

Reglas de Admisión a los Cursos *Pre-AP/AP*

Animamos a los estudiantes que estén interesados en los cursos *Pre-AP/AP* que se matriculen. Las siguientes guías proveen un perfil del estudiante que típicamente obtiene éxito en los cursos *Pre-AP* y *AP*.

- Éxito en terminar los trabajos de clase pre-requeridos
- Presente o previo éxito en el desarrollo de cursos relacionados
- Obtener resultados iguales o más altos que el 85 por ciento más alto en el más reciente examen estándar de rendimiento escolar u otro examen identificado como medida en el distrito
- Recomendación del maestro(a)
- Se deben de considerar con cautela otras obligaciones como actividades extraescolares, empleo, servicio a la comunidad, actividades religiosas y tareas escolares

Los cursos de *Pre-AP/AP* son asignados como cursos de año. Será requerido que los estudiantes enrolados en estos cursos cumplan los dos semestres del curso de *Pre-AP/AP*, a menos que se habrá salido del programa por haber recibieron una "D" o "F" en sus calificaciones (bajo de 75).

Información de Salida respecto a los Cursos *Pre-AP/AP*

- Las oportunidades para que un estudiante pueda salir de una clase de *Pre-AP/AP* se limitan al final del primer período formal de calificaciones (seis o nueve semanas) y al final del primer semestre. Cada escuela establecerá pautas para cuándo y cómo los estudiantes pueden solicitar abandonar las clases *Pre-AP/AP*, dentro del primer periodo de calificación formal.
- Los estudiantes deben de considerar salir de un curso *Pre-AP/AP* al final del primer período formal de calificaciones (seis o nueve semanas) o al final del primer semestre si no mantienen cuando menos una "C" de promedio. Esta decisión requiere la aprobación del padre o tutor.
- Si al final de cualquier período formal de calificaciones (seis o nueve semanas) la calificación del estudiante en un curso *Pre-AP/AP* baja a menos de 70 (reprobando), se le dará de baja al estudiante del curso *Pre-AP/AP* a menos que el director de la escuela tome otra decisión. El personal del plantel recomendará que el estudiante se re-asigne de un curso *AP* a un curso a Nivel de Grado.
- Para cursos de "Advanced Placement" o Lugar Avanzado (*AP*) que no tienen equivalente de grado, el alumno debe tener un promedio de por lo menos una "C" para permanecer en el curso al final de las primeras 6 semanas. El padre de un alumno que tiene un promedio de "D" y gustaría permanecer en el curso debe firmar un documento donde dice que entienden que el alumno no tendrá la oportunidad de salir del curso hasta el fin del semestre.
- Si al final del primer semestre el estudiante recibe una "D" o menos (bajo de 75) y desea salirse del curso, donde no hay un curso al nivel de grado, el estudiante tendrá que seleccionar un curso electivo que sea disponible y que será posible de recibir crédito basado en la asistencia de 90% del tiempo asignado.

Spring Branch ISD se enorgullece en ofrecer un curso de estudios sólido en todas las materias. Si un cambio de horario a clases de Nivel de Grado ocurre, el estudiante continuará con las oportunidades de enseñanza de calidad diseñadas para prepararlo efectivamente para el curso de estudios de la preparatoria y la universidad.

Me doy por enterado de las reglas de admisión y de salida referente a la participación en los cursos *Pre-AP/AP* en *SBISD*.

Firma del Estudiante

Firma del Padre

Fecha

Special Education/504 Accommodations in Pre-AP and Advanced Placement Courses

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

1. Special education or Section 504 students must have equal opportunity to participate in Pre-AP or AP courses in accordance with these guidelines.
2. While ARD Committees may wish to consider Pre-AP or AP courses in connection with transition plans for students who will be attending college, ARD Committees and 504 Committees are not required to place students in Pre-AP or AP classes unless they can be reasonably expected to be successful with the allowable accommodations described in these guidelines. If a parent chooses to enroll their student in a Pre-AP or AP course, the ARD Committee shall recommend accommodations in accordance with these guidelines.
3. Accommodations for special education and 504 students may not alter the content or academic standards of the Pre-AP or AP course. Thus, certain allowable accommodations may include, but are not necessarily limited to the following:
 - Extended time for testing
 - Opportunity to repeat and explain instructions
 - Assignment notebook
 - Minimal auditory distractions
 - Encouragement for classroom participation
 - Large print, Braille/peer to read aloud
 - Behavior intervention plan
 - Assistive technology as defined by the committee
 - Altered format of exams, such as highlighted instructions or alternative spacing of questions
 - Altered assignments as needed for persons with motoric or visual impairment
4. The following are examples of accommodations which would alter the content or the standards of the course, and are not allowable:
 - Reduced assignments
 - Special projects in lieu of assignments
 - Exams of reduced length
 - Open book exams
 - Peer tutoring/paired work arrangement
 - Any reduction of content or standards of the course
 - Reduced mastery

If the ARD Committee or Section 504 Committee does not believe that a student will be successful in a Pre-AP or AP course, even with the allowable accommodations indicated above, it should notify the parents or the student, as appropriate, of its concerns and document them in the record of the ARD Committee or 504 meeting during which the matter is discussed. While the decision to enroll in a Pre-AP/AP class is ultimately to be made by the parent or student, the ARD or 504 Committee may meet and recommend removal of the student from the classroom if the student is not meeting the standards applicable to students in that program and, as a result, is failing or at risk of failure.

Programs That Can Help Students Earn College Credit in High School

International Baccalaureate

The IB Diploma Programme and Middle Years Programme are offered at Westchester Academy of International Studies. They are demanding, rigorous programs of study that hold students to international standards. Major colleges and universities around the world readily accept the IB Diploma Programme. In some cases, students have earned enough college credits through the two-year schedule of courses to begin post-secondary studies as sophomores. All public universities in Texas award a minimum of 24 college hours for the IB Diploma. Each university has specific policies concerning awarding credit for IB courses, so please consult your prospective university for more details.

IB Courses are offered at two levels: Higher Level (HL) and Standard Level (SL). Both levels explore coursework in great depth and detail while providing a rigorous, broad and balanced curriculum. These courses are taught over a two-year period. In the fall of their senior year, students will declare the level for each class and take the subject-specific exams in May of their senior year. This distinction allows students to select classes which allow them to pursue areas of strength and interest while challenging them to “stretch” in areas that are more challenging. The end result is a well-rounded student with greater preparation for college coursework.

To earn the IB Diploma:

- A student must successfully complete one course from each of six curriculum areas.
- Students complete Internal Assessment criteria during the course and sit for an External Assessment exam at the end of their 11th or 12th grade year.
- Students must accumulate 24 points for the IB diploma.
- In addition, students must take a combination of either 3 Higher Level and 3 Standard Level courses or 4 HL Higher Level and 2 Standard Level courses.
- A final requirement is the completion of the following IB-specific coursework: Theory of Knowledge, Extended Essay, and Creativity, Action, and Service (CAS).

If a student does not want to take all six courses for the IB Diploma, he/she may pursue completion of IB Certificates in selected classes. For example, a student may elect to take only IB English HL, IB History of Europe HL, and IB Visual Arts HL. These three IB courses would be subject to the same testing and assessment which would result in IB Certificates, possibly earning college credit.

International Baccalaureate Middle Years Programme (IB MYP)—WAIS is an authorized school for the IB Middle Years Programme. IB Middle Years Programme schools share a common philosophy—a commitment to high quality, challenging, international education that WAIS believes is important for their students.

Programs That Can Help Students Earn College Credit in High School

Dual Credit

A student may enroll in academic and/or technical courses for college credit before graduating from high school. Students receive both high school and college credit on successful completion of these courses. Grades earned will be used in calculating grade point averages and class rank. **There is no limit on the number of credits a student may earn in this manner.** Students may take up to two courses per semester unless limit is waived by the principal. The benefits of this program include:

- Earning 24-30 college hours while in high school
- Reducing time in college
- Preparation for a smooth transition to a college environment
- Less structured learning environment
- Substantial saving on college tuition

SBISD Dual Credit Offerings*

SBISD Course	Community College Course	Early College Program	Campus-Based	College Credits
English III	ENG 1301/1302	AOC, MHS, NHS, SWHS, SHS, WAIS	MHS, SWHS, SHS	3/3
English IV	ENG 2322/2323		MHS, SWHS, SHS	3/3
US History	HIS 1301/1302		MHS, SHS	3/3
Government	GOVT 2305			3
SS Topics	GOVT 2306			3
Economics	ECO 2301			3
Psychology	PSYCH 2301			3
Sociology	SOC 2301			3
Advanced Biotechnology	BIO 1406		MHS	4
Biology II	BIO 1406		SWHS, WAIS	4
Chemistry II	CHEM 1405		SWHS, WAIS	4

***Advanced Mathematics Options available on a case-by-case basis.**

Dual Credit—On Campus

To qualify, a student must:

- Enroll online at an Institution of Higher Education (IHE) with which Spring Branch ISD (SBISD) has an agreement (e.g. Houston Community College System, University of Houston Downtown, and University of St. Thomas)
- Be responsible for paying the required tuition
- Submit scores from the Texas TSI assessment or show exemption by way of SAT, ACT, PSAT, PLAN, or STAAR end-of-course (EOC) scores. Exemption scores are:
 - SAT:** Critical Reading — 500 Math — 500 Composite (excluding Writing) — 1070
 - ACT:** English — 19 Math — 19 Composite — 23
 - PSAT:** Combined Score 107 with 50 minimum of Critical Reading and/or Mathematics
 - PLAN:** Composite 23 with 19 or higher on English and Mathematics
 - STAAR:** English II EOC — 4000
- After August 26, 2013, students who do not meet exemptions for TSI will have to take the Texas TSI assessment for placement in college level courses.

GENERAL INFORMATION

Some advanced coursework will require additional testing by IHE as a prerequisite. University of Houston Downtown (UHD) requires TSI testing for all applicants.

Students may take Dual Credit courses if offered on their home campus or on the Institute for Higher Education (IHE) campus as part of the SBISD Early College Program. Scholarships may be available. Check with your counselor for details.

Dual Credit—Early College Program

SBISD also has a districtwide Early College Program in which students take college courses at HCC Northwest College at Spring Branch or, if attending Stratford High School, take University of Houston Downtown (UHD) college courses at the high school campus. All of those participating in the UHD program are required to take the TSI test to determine eligibility. Please see your high school counselor for more information.

Dual Credit—Off Campus

Under special arrangements students may apply for high school credit for college coursework if the course is comparable to an approved course. The student obtains a list of essential elements of the course and takes it to the college department chair or professor, who checks those elements included in the college course.

TO APPLY TO SBISD for permission, a student will submit to the principal:

1. Written letter of application signed by student and parents/guardians requesting permission to satisfy high school course requirement with a college course;
2. List of essential elements as marked by college course professor;
3. A list of textbook(s) used in college course;
4. Course syllabus or any other available descriptive information;
5. Dates on which the course begins and ends.

TO RECEIVE CREDIT for the course from SBISD, a student must provide a college transcript showing the numerical grade assigned. No credit will be granted for a failing grade. The grade assigned on the transcript will become the grade recorded on the student's high school transcript, but will not be used to determine class rank.

Dual Credit GPA Points

In the 2013-2014 school year, the District decided to weight grade points in dual credit English, mathematics, science, and social studies classes beginning with students who started high school in 2014-2015.

Dual Credit Fees

The Houston Community College Board of Trustees decided to waive all out-of-district fees for dual credit students. Beginning in the fall of 2016, SBISD dual credit students will take their courses free of charge.



Articulated Courses—Career & Technical Education (CTE)

Articulated credits are developed through a written agreement with individual colleges. These agreements specify a sequence of courses that will earn college credit and apply toward a certificate program and/or a degree once the student fulfills the obligations of the agreement. These requirements generally include earning a "B" or better in the articulated courses, completing all courses in the sequence, enrolling in the college within a specified time period, and earning a prescribed number of credits in that college. Once that is completed the articulated courses will be listed on the college transcript. Articulated courses are free and available through a number of higher education institutions that serve SBISD students.

Other Learning Opportunities: Original Credit and Credit Recovery

We understand that students occasionally need opportunities to earn credit outside of the traditional classroom. Original and credit recovery options available to SBISD students are as follows:

Virtual High School Courses

SBISD offers online courses for original and retake credit. These courses are available during the school day on campus, as an extra course beyond the regular class schedule at Academy of Choice Night School, and in summer school.

The list of courses below is available for students. Additional courses may also be available; consult your counselor if you are looking for a course not on this list.

Language Arts	Mathematics	Science	Social Studies	Electives
English I English II English III English IV	Algebra I Algebra II Geometry	Biology Chemistry	U.S. Government U.S. History Economics World Geography World History	Health Physical Education Spanish I

Students interested in taking a virtual course in 2016-2017 should select the course during January; registration for virtual courses will begin in May.

Alternative Learning Assignment (ALA)

ALA is for students who lose credit for the class as a result of excessive absences. For each hour of class a student is absent, he/she must make up 1 hour of an ALA. For each full day of school a student is absent, he/she must make up 7 hours of ALAs. For more information regarding this option, see the grade level principal.

Correspondence Courses

Board Policy EHDE (LOCAL): A student may earn a maximum of 1.5 high school graduation credits, or local credits, per semester through correspondence or virtual courses during any one school year. Students shall seek approval from the campus principal or designee to take additional correspondence or virtual coursework for credit during the summer months. Final culminating assessments for correspondence and virtual courses must be taken on District premises in the presence of a District administrator or designee. The Superintendent or designee may waive limitations on an individual basis for extenuating circumstances.

Credit toward state graduation requirements may be granted for correspondence courses only under the following conditions:

1. The institution offering the course is The University of Texas at Austin, Texas Tech University, or another public institution of higher education approved by the Commissioner of Education.
2. Correspondence courses, taken outside the normal course load as established by the home campus, are not included in the calculation of class rank or grade point average. Those courses taken within the normal course load are counted in the Grade Point Average and included in the calculation of class rank.
3. There is no limit to the number of correspondence courses allowed for repeat courses.
4. Any other exceptions based on STAAR End-of-Course-tested courses and/or graduation requirements must be approved by the principal.

Retake

- If a student fails a course with a grade of “69” or below, the student may retake the course. The grade earned is counted in the grade point average.

GENERAL INFORMATION

- Only courses taken during the school day on campus will be counted for GPA purposes. This means such courses as original credit summer school courses, correspondence courses, and on-line courses not taken during the school day will count for credit but not for GPA. The only exception is for courses that have to be repeated due to failure.

Credit by Examination (CBE)

CBE is offered for two different groups: students with prior instruction in the class and those without. Four opportunities will be given to earn state-approved credit per year. Students who receive original credit through examination for courses in which there is an associated STAAR End-of-Course exam are exempt from the associated STAAR End-of-Course exam. The credit awarded through examination serves as the credit for the exam to meet graduation requirements.

- **No prior instruction**—The student must score 80% or above on an approved criterion-referenced examination. SBISD administers these exams four times each year. Dates of these exams are set and advertised on the District website and at the campus. Applications will be available at the student's home school.
- **Prior instruction**—Includes:
 - * Courses studied in an independent homeschool program with documented curriculum and grades
 - * Courses taken at an accredited private school for which grades are not available
 - * Courses taken outside Texas for which the TEKS are not fully aligned

The student must score 75% or higher on a scale of 100. All exams are developed by a district-approved vendor. There is no fee for this process.

A student who has excessive absences or who has failed a course may not be permitted to earn or regain course credit through credit by examination unless so determined by the building principal, prior to testing.

Houston Community College (HCC)

Students may earn original credit by attendance at night or during the weekends at one of the HCC campuses. For coursework or credit to be accepted, a student **must** receive permission from the home school counselor or designee to attend. A maximum of two credit units may be earned at HCC. (Fee requirement)

Credit Recovery

Students who have failed classes needed for graduation can recover credit by taking a computer program course called Odyssey at the computer lab. The courseware modules contain tutorials, drills, application and problem solving activities, and mastery tests. This opportunity is self-paced. See the counselor for an application and information regarding availability on your campus.

Summer School

Students may earn original credit or regain credits lost through summer school programs. For coursework or credit to be accepted, a student **must** receive permission from the home school principal or designee to attend any summer school program. A maximum of two credit units may be earned during summer school. (Fee requirement)

Zero (0) Hour

Some campuses may offer 0 hour classes. Students should check with their counselor for information regarding courses offered.

Academy of Choice (AOC) Night School

Students can sign up for credit restoration/retake or for original credit sessions held at AOC during the evening. There will be sessions in the fall and in the spring. The sessions are open to every campus. Original credit is available through TxVSN but must be approved by the counselor. See your counselor for an application.

Academy of Choice (AOC)

Academy of Choice High School is a campus of choice, providing students flexibility, tailored schedules, and personalized learning plans, to ensure student success in achieving educational and post-graduation goals. AOC offers classes during the day, in the evening, and online. AOC is an option for those students who do not thrive in the traditional campus setting.

Daily Schedule:

- Day Classes** 8:00 a.m. – 3:30 p.m.
- Evening Classes** 4:00 p.m. – 8:00 p.m.
- Virtual Classes** 24 hours a day, 7 days a week

Benefits of Attending AOC:

- ◇ Tailored schedules
- ◇ Personalized learning plans
- ◇ Teachers and staff work closely with you to ensure you are successful.
- ◇ Night classes
- ◇ Mini-mesters
- ◇ On-line classes
- ◇ Field trips to colleges and universities and guest speakers that feature career fields to experience what your future looks like.
- ◇ Small campus
- ◇ Small class sizes
- ◇ All students receive a SBISD netbook computer to use in class and at home during the academic school year.
- ◇ Transportation is provided in the mornings to school, and after school at 3:30 p.m., 5:00 p.m., and 8:00 p.m.

Facts about Graduating from AOC:

AOC is a campus of choice established by the district for the benefit of students who need personalized, non-traditional learning opportunities. Students who attend AOC classes are enrolled at AOC, by transferring from their home campus. AOC students will receive their diploma from their home campus, and are eligible to participate in all activities offered from their home campus.

How to Enroll:

- ◇ Students discuss the desire to become an AOC student with their home campus counselor.
- ◇ Home campus counselor fills out the appropriate paperwork and sends the request to AOC.
- ◇ After approval from home campus counselor, parent should call AOC to schedule an interview.
- ◇ Students who attend AOC agree complete a commitment card, and to focus on being successful in achieving a high school diploma, as well as explore opportunities related to pursuing a technical school, 2-year college, 4-year college or university, or a military career.

GENERAL INFORMATION

LEARNING OPPORTUNITY	ORIGINAL CREDIT	CREDIT RECOVERY
Alternative Learning Assignment (ALA)		X
Correspondence Courses	X	X
Credit by Examination	X	X
Retake		X
Virtual Learning	X	X
Houston Community College (HCC) Adult High School	X	X
Odyssey Lab	X	X
Academy of Choice (AOC) Night School	X	X
Summer School	X (not all courses available)	X
Zero (0) Hour	X	X

For more information on any of these programs or others, remember to see your counselor!

Testing Information

STAAR End-of-Course (EOC) Assessments

EOC assessments are required for graduation for students entering high school in 2011-2012 and after to measure students' academic performance in core high school courses and to become part of the graduation requirements beginning with the freshman class of 2011-2012. The EOC assessments for lower-level courses must include questions to determine readiness for advanced coursework. The assessments for higher-level courses must include a series of special purpose questions to measure college readiness and the need for developmental coursework in higher education. Successful completion of the following EOC assessments is required for graduation: English I, English II, Algebra I, Biology, and U.S. History.

Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT)

The PSAT/NMSQT (known as the PSAT) is scheduled one time only, the third week in October. It is administered to freshmen, sophomores, and juniors during the school day. This practice test for the SAT and for 11th grade is also the qualifying exam for the National Merit Scholarship Program, the National Hispanic Recognition Program, and the National Scholarship Service for African-American Students. It covers critical reading, writing, and math skills. It is a valuable predictor for success in higher-level courses, for future SAT scores, and for success in college. Many scholarship and college applications ask for junior year PSAT scores. While only juniors are eligible for scholarship consideration, sophomores may take the test for practice. Sophomores may register and pay to take the test on the Saturday administration (space is limited).

Home schooled 11th grade students in Spring Branch ISD may participate in the Saturday administration of the PSAT/NMSQT offered by the district.

Price: Freshmen, Sophomores, and Juniors: No charge.

Registration: None (handled by the school).

Type: Five timed sections.

ACT (College Entrance Exam)

The ACT is one of two college entrance exams required by most colleges and universities. The ACT tests skills in English, math, science, and reading. There is also a 30-minute essay test available for an extra charge. Scores range from 1 to 36 on each section. Those scores are combined into a composite score which also ranges from 1 to 36. A score above 20 is generally in the top 50%. The ACT is administered on Saturdays about 6 times a year. Registration with ACT is required about six weeks in advance. <http://www.actstudent.org>

Price: Approximately \$39.50 for ACT, \$56.50 for ACT Plus Writing (subject to change).

Registration: By mail or on-line at www.actstudent.org

SAT Reasoning Test (College Entrance Exam)

The SAT Reasoning Test is one of two college entrance exams required by most colleges and universities. The SAT tests verbal and mathematics reasoning skills, and writing ability. It has nine sections. Scores range from 200 to 800 on each section. A score of 500 on each section is generally in the top 50%. The SAT is given on Saturdays about 7 times a year. Registration with the College Board is required about six weeks in advance. <http://www.collegeboard.com/student/testing/sat/reg.html>

Price: Approximately \$54.50 (subject to change). Juniors: SAT School Day (Spring): No charge

Registration: By mail or on-line at www.collegeboard.com

Type: Nine timed sections, including an essay.

GENERAL INFORMATION

SAT Subject Tests (College Entrance Exams)

The SAT Subject Tests are one-hour multiple-choice tests. They provide the opportunity for students to demonstrate mastery of specific subjects in the areas of English, history, mathematics, science, and languages. Some colleges and universities require specific exams for admission or placement, and some award credit for high scores. Scores range from 200 to 800, with credit consideration typically given for scores above 560. Students should register for these tests after completing the highest level courses in the subject areas. The SAT Subject Tests are given on Saturdays about 7 times a year. Up to three exams may be taken on the same day, but the SAT Reasoning Test may not be taken on the same day. Registration with the College Board is required about six weeks in advance. <http://www.collegeboard.com/student/testing/sat/reg.html>

Price: Basic registration \$26. Language with Listening tests add \$26. All other subjects tests \$16. (Prices subject to change.)

Registration: By mail or on-line at www.collegeboard.com

Type: Individual 1 hour tests.

Advanced Placement (AP) Exams

The College Board AP exams are given once a year, in May, during the school day. Each three-hour exam covers college level content in a specific course. The tests consist of both multiple choice and essay questions. Foreign Language exams include a speaking and listening section. Scores range from 1-5, with most colleges awarding credit for scores of 3 or better. Registration takes place in March in the counselors' office.

Price: Approximately \$92. (Prices subject to change.)

Registration: In March, in the counselor's office. Pre-payment required. College Board fee waivers available for qualified students.

Type: Three hours each subject

Texas Success Initiative Assessment (TSI) Placement Testing

The State of Texas requires all students to demonstrate college level readiness in reading, math, and writing before taking any courses that count towards a college degree. Students may be exempt from TSI with specified scores on the SAT, ACT, PLAN, or PSAT. Students are encouraged to check with the state college/university for specific placement testing requirements. Meeting TSI standards is also required for any dual credit classes.

Fee waivers are available for those who qualify. See your counselor for information.

Graduation Program – Overview

Foundation High School Program

A new, more flexible graduation program that allows students to pursue their interests is in place for all students who entered high school beginning in the 2014-2015 school year.

The program contains:

- A 22-credit Foundation Plan which is the core of the new Texas high school diploma
- Five endorsement options that allow students to focus on a related series of courses

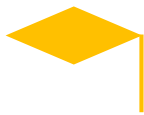
Foundation Plan (22 credits)

English (4 credits)	English I	English II	English III	An advanced English course
Mathematics (3 credits)	Algebra I	Geometry	An advanced math course	
Science (3 credits)	Biology	Integrated Physics & Chemistry or an advanced science	An advanced science course	
Social Studies (3 credits)	W. History or W. Geography	U.S. History	U.S. Government (.5 credit)	Economics (.5 credit)
Languages other than English (2 credits)	2 credits in the same language or 2 credits in Computer Science			
Physical Education (1 credit)	Fine Arts (1 credit)	Electives (5 credits)		

Foundation Plan with Endorsements (26 credits)

Spring Branch ISD encourages every student to graduate with at least one endorsement.*

Select an endorsement below to view specific graduation requirements:



[STEM](#)



[Business/Industry](#)



[Public Services](#)



[Arts/Humanities](#)



[Multidisciplinary](#)

Enhancements

Additionally, a student may earn the Distinguished Level of Achievement and/or a Performance Acknowledgment for outstanding performance. The Distinguished Level of Achievement must be earned to be admitted to a Texas public university under the Top 10 percent automatic admission law.

Distinguished Level of Achievement	Performance Acknowledgments
• Foundation Program requirements	• dual credit course
• 4 credits in mathematics including Algebra II	• bilingualism and biliteracy
• 4 credits in science	• PSAT, ACT's PLAN, SAT, or ACT
• at least 1 endorsement	• Advanced Placement or International Baccalaureate exam
	• earning a nationally or internationally recognized business or industry certification or license

* A student entering 9th grade must indicate an endorsement he or she plans to follow. A student may change or add an endorsement at any time.

* A student may graduate without earning an endorsement if, after his or her sophomore year, the student's parent signs a form permitting the student to omit the endorsement requirement.

Source: Texas Education Agency Graduation Tool

**Science, Technology, Engineering, and Mathematics (STEM) Endorsement
26 Credits**

In order to earn a Science, Technology, Engineering, and Mathematics (STEM) Endorsement, students must meet the following General Course Requirements, Pathway Requirements, and Additional Credit requirements to earn a minimum of 26 total credits.

General Course Requirements

19 credits

- 4 credits English – ELA I, II, III, & one advanced English
- 4 credits Mathematics – Algebra I, Geometry, Algebra II, and one advanced mathematics
- 4 credits Science – Biology, Chemistry, Physics, and one advanced science
- 3 credits Social Studies – World Geography or World History, U.S. History, Government & Economics
- 2 credits in same Language Other than English
- 1 credit in Physical Education
- 1 credit in Fine Arts

Pathway Requirements

1-6 credits (depending upon pathway selected)

Select one of the options below.

Computer Science	<u>4 credits</u>
Mathematics	<u>1 additional advanced mathematics credit</u> beyond Algebra II
Science	<u>1 additional advanced science</u>
Career & Technical Education	<u>Computer Integrated Manufacturing</u> – Project Lead the Way
	<u>Computer Science & Software Engineering</u> – Project Lead the Way
	<u>Digital Electronics</u> – Project Lead the Way

Additional Credit Requirements

Remaining Credits to 26 - Choice Electives

Credit Checklist – This is a tool for monitoring your progress. Your counselor will maintain an official record of your coursework.

Distinguished Level of Achievement

Students must earn at least one Endorsement and successfully complete a 4th science + Algebra II
(Distinguished Level of Achievement required for top 10% consideration)

GRADUATION REQUIREMENTS

**Business & Industry Endorsement
26 Credits**

In order to earn a Business & Industry Endorsement, students must meet the following General Course Requirements, Pathway Requirements, and Additional Credit Requirements to earn a minimum of 26 total credits.

General Course Requirements

19 credits

- 4 credits English – ELA I, II, III, & one advanced English
- 4 credits Mathematics – Algebra I, Geometry, and two advanced math
- 4 credits Science – Biology, IPC or Chemistry or Physics, and two advanced science
- 3 credits Social Studies – World Geography or World History, U.S. History, Government & Economics
- 2 credits in same Language Other than English
- 1 credit in Physical Education
- 1 credit in Fine Arts

Pathway Requirements

4-6 credits (depending upon pathway selected)

Select one of the options below.

Language Arts Electives	<u>4 ELA elective credits</u> with 3 levels in the same area
Technology Applications	<u>4 credits</u>
Career & Technical Education	<u>Agriculture, Food & Natural Resources</u>
	<u>Architecture & Construction</u>
	<u>Arts, A/V Technology & Communications</u>
	<u>Business, Management & Administration</u>
	<u>Finance</u>
	<u>Hospitality & Tourism</u>
	<u>Information Technology</u>
	<u>Manufacturing</u>
<u>Marketing</u>	

Additional Credit Requirements

Remaining Credits to 26 - Choice Electives

Credit Checklist – This is a tool for monitoring your progress. Your counselor will maintain an official record of your coursework.

Distinguished Level of Achievement

Students must earn at least one Endorsement and successfully complete a 4th science + Algebra II
(Distinguished Level of Achievement required for top 10% consideration)

GRADUATION REQUIREMENTS

**Public Services Endorsement
26 Credits**

In order to earn a Public Services Endorsement, students must meet the following General Course Requirements, Pathway Requirements, and Additional Credit Requirements to earn a minimum of 26 total credits.

General Course Requirements

19 credits

- 4 credits English – ELA I, II, III, & one advanced English
- 4 credits Mathematics – Algebra I, Geometry, and two advanced math
- 4 credits Science – Biology, IPC or Chemistry or Physics, and two advanced science
- 3 credits Social Studies – World Geography or World History, U.S. History, Government & Economics
- 2 credits in same Language Other than English
- 1 credit in Physical Education
- 1 credit in Fine Arts

Pathway Requirements

4-6 credits (depending upon pathway selected)

Select one of the options below.

Navy Junior Reserve Officers Training Corps (NJROTC)	<u>4 credits</u>
Career & Technical Education	<u>Education & Training</u>
	<u>Health Science</u>
	<u>Human Services</u>
	<u>Law, Public Safety, Corrections & Security</u>

Additional Credit Requirements

Remaining Credits to 26 - Choice Electives

Credit Checklist – This is a tool for monitoring your progress. Your counselor will maintain an official record of your coursework.

Distinguished Level of Achievement

Students must earn at least one Endorsement and successfully complete a 4th science + Algebra II
(Distinguished Level of Achievement required for top 10% consideration)

GRADUATION REQUIREMENTS

**Arts & Humanities Endorsement
26 Credits**

In order to earn an Arts & Humanities Endorsement, students must meet the following General Course Requirements, Pathway Requirements, and Additional Credit Requirements to earn a minimum of 26 total credits.

General Course Requirements

19 credits

- 4 credits English – ELA I, II, III, & one advanced English
- 4 credits Mathematics – Algebra I, Geometry, and two advanced math
- 4 credits Science – Biology, IPC or Chemistry or Physics, and two advanced science
- 3 credits Social Studies – World Geography or World History, U.S. History, Government & Economics
- 2 credits in same Language Other than English
- 1 credit in Physical Education
- 1 credit in Fine Arts

Pathway Requirements

2-3 credits (depending upon pathway selected)

Select one of the options below.

English Electives	<u>3 credits</u> beyond English IV
Fine Arts	<u>3 additional credits</u> beyond the one required credit
Languages Other Than English (LOTE)	<u>2 additional credits</u> beyond the two required credits
Social Studies	<u>2 additional credits</u> beyond the three required credits

Additional Credit Requirements

Remaining Credits to 26 - Choice Electives

Credit Checklist – This is a tool for monitoring your progress. Your counselor will maintain an official record of your coursework.

Distinguished Level of Achievement

Students must earn at least one Endorsement and successfully complete a 4th science + Algebra II
(Distinguished Level of Achievement required for top 10% consideration)

Multidisciplinary Endorsement

26 Credits

In order to earn a Multidisciplinary Endorsement, students must meet the following General Course Requirements, Pathway Requirements, and Additional Credit Requirements to earn a minimum of 26 total credits.

General Course Requirements

19 credits

- 4 credits English – ELA I, II, III, & one advanced English
- 4 credits Mathematics – Algebra I, Geometry, and two advanced math
- 4 credits Science – Biology, IPC or Chemistry or Physics, and two advanced science
- 3 credits Social Studies – World Geography or World History, U.S. History, Government & Economics
- 2 credits in same Language Other than English
- 1 credit in Physical Education
- 1 credit in Fine Arts

Pathway Requirements

1-4 credits (depending upon pathway selected)

Select one of the options below.

Social Studies	<u>1 additional credit</u> beyond the three required credits
Four total credits in: Advanced Placement (AP) or International Baccalaureate (IB) or Dual Credit	May be a combination of: English Mathematics Science Social Studies Economics Languages Other than English Fine Arts

Additional Credit Requirements

Remaining Credits to 26 - Choice Electives

Credit Checklist – This is a tool for monitoring your progress. Your counselor will maintain an official record of your coursework.

Distinguished Level of Achievement

Students must earn at least one Endorsement and successfully complete a 4th science + Algebra II
(Distinguished Level of Achievement required for top 10% consideration)

4 x 4 Graduation Plans

The following plans apply to students who entered high school PRIOR to 2014-2015.
 Students entering high school in the fall of 2014 and thereafter should refer to the FHSP + Endorsement plan.

26-Credit Recommended High School Program Graduation Requirements	
ENGLISH	4
Must consist of English I, II, III and IV (ESOL I and ESOL II may be substituted for English I and II for students with limited English proficiency)	
MATHEMATICS	4
Must include Algebra I, Geometry, Algebra II and at least one course from the following:	
<ul style="list-style-type: none"> o Math Models with Application - <i>must be completed prior to enrollment in Algebra II if selected.</i> o A math course with Algebra II as a prerequisite, including Precalculus, AP Statistics, AP Computer Science, Topics in Math or dual credit college math 	
SCIENCE	4
Three credits must consist of one biology credit (Biology, PreAP Biology), one chemistry credit (Chemistry or PreAP Chemistry), one physics credit (Physics or PreAP Physics) and at least one course from the following	
<ul style="list-style-type: none"> o Integrated Physics & Chemistry - <i>must be completed prior to enrollment in Chemistry and Physics if selected.</i> o An additional lab-based course, including Aquatic Science, Anatomy & Physiology, AP Biology, AP Physics, AP Chemistry, AP Environmental Science, Environmental Systems, Earth & Space Science, Advanced Animal Science 	
SOCIAL STUDIES	4
One credit each of World Geography, World History and U.S. History; one-half credit each of Government and Economics	
OTHER LANGUAGES	2
Must consist of 2 levels in the same language	
FINE ARTS	1
Choir, Band, Orchestra, Dance, Art, Theatre Arts, Art History, or Music Theory I and II; Principles & Elements of Floral Design or Digital Art & Animation may substitute	
PHYSICAL EDUCATION	1
May include Athletics or PE (up to 4 credits), Foundations of Personal Fitness (.5 credit), Dance Team I; the fall semesters of Marching Band or the first year of Cheerleading may substitute.	
SPEECH	0.5
Professional Communications or Communication Applications	
ELECTIVES	5.5
TOTAL CREDITS	26
College Board Advanced Placement and Dual Credit courses may be substituted in appropriate areas.	
STATE ASSESSMENT PERFORMANCE	
In addition to the credit requirements as listed above:	
<ul style="list-style-type: none"> o Students who first entered 9th grade in 2011 and after must meet passing standards on English I Reading & Writing, English II Reading & Writing, Algebra I, Biology, and U.S. History EOC exams. o Students who first entered 9th grade in 2010 or before must meet passing standards on all four sections of the Exit Level TAKS test (English Language Arts, Math, Science, and Social Studies). 	

26-Credit Distinguished Achievement Program Graduation Requirements	
ENGLISH	4
Must consist of English I, II, III and IV (ESOL I and ESOL II may be substituted for English I and II for students with limited English proficiency)	
MATHEMATICS	4
Must include Algebra I, Algebra II, Geometry and at least one math course with Algebra II as a prerequisite, including Precalculus, AP Calculus, AP Statistics, AP Computer Science, Topics in Math or a dual credit college math course	
<ul style="list-style-type: none"> o <i>Math Models with Application does not satisfy a math credit for DAP candidates.</i> 	
SCIENCE	4
Three credits must consist of one biology credit (Biology, PreAP Biology), one chemistry credit (Chemistry, PreAP Chemistry), one physics credit (Physics, PreAP Physics) and at least one additional lab-based course, including Aquatic Science, Anatomy & Physiology, AP Biology, AP Physics, AP Chemistry, AP Environmental Science, Environmental Systems, Earth & Space Science, Advanced Animal Science	
<ul style="list-style-type: none"> o <i>Integrated Physics & Chemistry does not satisfy a science credit for DAP candidates.</i> 	
SOCIAL STUDIES	4
One credit each of World Geography, World History and U.S. History; one-half credit each of Government and Economics	
OTHER LANGUAGES	3
Must consist of 3 levels in the same language	
FINE ARTS	1
Choir, Band, Orchestra, Dance, Art, Theatre Arts, Music Theory, Music History & Literature or Art History, Principles & Elements of Floral Design or Digital Art & Animation may substitute	
PHYSICAL EDUCATION	1
May include Athletics or PE (up to 4 credits), Foundations of Personal Fitness (.5 credit), Dance Team I; the fall semesters of Marching Band or the first year of Cheerleading may substitute.	
SPEECH	0.5
Communication Applications or Professional Communications	
ELECTIVES	4.5
TOTAL CREDITS	26
College Board Advanced Placement and Dual Credit courses may be substituted in appropriate areas.	
STATE ASSESSMENT PERFORMANCE	
In addition to the credit requirements as listed above:	
<ul style="list-style-type: none"> o Students who first entered 9th grade in 2011 and after must meet passing standards on English I Reading & Writing, English II Reading & Writing, Algebra I, Biology, and U.S. History EOC exams. o Students who first entered 9th grade in 2010 or before must meet passing standards on all four sections of the Exit Level TAKS test (English Language Arts, Math, Science, and Social Studies). 	
ADVANCED MEASURES	
In addition to the requirements listed above, DAP candidates must submit four (4) advanced measures from the following categories:	
<ul style="list-style-type: none"> o AP test score of 3 or above o IB test score of 4 or above o Qualifying PSAT score based on 11th grade test o College course with a final grade of A or B (3.0 or above) o Articulated course (ATC) with a final grade of A or B (3.0 or above) o Original Research / Project 	<ul style="list-style-type: none"> 1 – 4 measures 1 – 4 measures 1 measure 1 – 4 measures 1 – 2 measures 1 measure

Grade Level Information

NINTH GRADE—Class of 2020

Testing: STAAR End-of-Course exams; PSAT in October

Ninth Grade Timeline (*check off the items you have completed*)

- Sign up to take the most challenging classes that you can.
- Learn how your GPA will be computed.
- Get to know your counselor and other college resources available in your school.
- Register for Naviance if you have not done so.
- Talk to adults to see what they like/dislike about their jobs and what education is needed.
- Become involved in extracurricular activities.
- Do your best on the PSAT and review your results using *College QuickStart*.
- Start keeping all of your report cards, certificates, etc. in a folder or portfolio.
- Become involved in volunteer activities and keep track of these.
- Do your best on state testing.
- Start thinking about your dream career and check out career web sites.
- Collect your personal information (log of volunteer activities, awards, resume, etc.) in a file.
- Go to career day at your school or elsewhere.
- Learn the difference between Dual Credit, AP, and IB courses.
- Check out Endorsement elective courses.
- Complete *Freshman Transition* survey in Naviance creating an academic goal, a personal/social development goal.
- Complete the *Career Interest Profiler* in Naviance.
- Complete *Career Cluster Finder* and add career clusters to favorite list in Naviance.
- Update your four-year course plan to reflect chosen Endorsement and pathway.
- Check out and plan for courses you can receive college credit in junior year.
- Research summer programs that focus on particular subjects, like science or math.

TENTH GRADE—Class of 2019

Testing: Required: STAAR End-of-Course exams; PSAT

Tenth Grade Timeline (*check off the items you have completed*)

- Check out Endorsement elective courses.
- Check out and plan for courses for which you can receive college credit in junior year.
- Keep up with your classes; grades are one of the top things universities consider.
- Start a savings account.
- Get to know your graduation plan; plan your classes with your counselor.
- Learn the difference between Dual Credit, AP, and IB courses.
- Become familiar with college entrance requirements.
- Do your best on state assessments.
- Decide what leadership roles you would like to consider.
- Update your four-year academic plan based on the courses you have completed and what courses you need/want to take.
- Do your best on the PSAT and review your results using *College QuickStart*.
- Complete *Do What You Are* survey in Naviance.
- Begin building your resume in Naviance.
- Update your four-year course plan in Naviance to reflect chosen Endorsement and pathway.
- If you are considering Dual Credit courses, do your best on the Texas Success Initiative Test (TSI); check with counselor.

GRADUATION REQUIREMENTS

ELEVENTH GRADE—CLASS OF 2018

Testing: Required: STAAR End-of-Course exams; PSAT/NMSQT in October; SAT
Strongly Recommended: ACT in spring (necessary for college application process for fall of senior year); SAT retest in summer

Eleventh Grade Timeline (*check off the items you have completed*)

August

Check to see that you are scheduled for the correct courses.

September

- Begin attending college sessions at your high school.
- Obtain the catalogs/brochures of the colleges/universities.
- Research colleges/universities in Naviance.
- Match T-2-4 options to your career interests to make informed decisions.
- Add colleges to *Colleges I'm Thinking About* list in Naviance.

October

- Take the PSAT/NMSQT and review your results using *College QuickStart*.
- Attend College/Career Night and learn about the different colleges and universities.

November

- Update your working resume in Naviance.
- Begin your *Brag Sheet* survey in Naviance.
- Visit your campus career/college center.

December

- Compute your GPA if you have not done so already.
- Utilize *Supermatch* and *College Search* in Naviance and add three colleges to *Colleges I'm Thinking About* list.

January

- Begin writing your personal essays for applications, scholarships, etc.
- Decide on courses for your senior year and consider Dual Credit or AP coursework.
- Review your PSAT results and use *My Road* site to review career options and areas that need extra practice before the SAT.
- Practice to improve your SAT scores using Schmoop and Khan Academy.

February

- Ask for verification of community service and keep in your portfolio/folder.
- Research to see if universities of interest require SAT Subject tests.

March

- Do your best on the SAT.
- Determine 1-2 colleges for your *Dream* school list, your *Reach* list, and your *Sure Thing* list.
- Check to see when AP Exam Registration will take place.

April

- Check that your graduation requirements are in order.

May

- Do your best on state assessments.
- Register to take both the ACT and SAT during the summer. Remember to select the colleges to receive your scores during registration.
- Study and take as many AP Exams as you can. Study for AP Exams in Shmoop.com.

GRADUATION REQUIREMENTS

May (continued)

- ___ Check out web sites and Naviance for information about applications for financial aid, admissions requirements, and deadlines. Check for satellite offices for major universities and become acquainted with the recruiters.
- ___ If possible, visit the colleges that most interest you.

June

- ___ Take the ACT and the SAT.
- ___ Visit the colleges you are interested in.
- ___ Explore career opportunities using Naviance and begin to narrow down majors.
- ___ Work on college admission essays and upload them to Naviance.
- ___ Update your resume and log of volunteer activities in Naviance.
- ___ Get a calendar and begin to write down your schedule of post-secondary planning activities.
- ___ Check your portfolio and make sure you have your records in order with SAT and/or ACT scores, essays, resume, record of your volunteer work, and record of your employment (if applicable).
- ___ Begin to research scholarship opportunities on web sites, in Naviance, and in your campus college center.

TWELFTH GRADE—CLASS OF 2017

It is **critical** that each student and his or her parent carefully review the requirements for graduation and the student's transcript to ensure the proper classes are selected to meet graduation requirements. The counselor will work diligently with you to select the proper classes, but remember, your graduation is ultimately your responsibility. Opportunities to retake classes failed during the senior year are usually offered outside the school day.

Testing: Remember—all graduation requirements, including passing all parts of STAAR*, must be met before you can take part in the graduation ceremony.

Required: STAAR End-of-Course exams

Recommended: SAT, ACT, Texas Success Initiative (TSI) assessment, AP, SAT Subject Tests, if appropriate



By senior year, you need to have plans for post-graduation and you need to make sure your selections adequately prepare you for your future plans.

- **College**—APPLY EARLY to choose 3 to 5 schools: one dream school that may seem like a stretch, one sure thing, and several choices in between. Make sure you meet the admission requirements and are registered for the proper entrance exams. Do not wait until just before the deadline or you may be too late.
- **Technical school**—check with several to make sure they have the kind of training you are seeking. Compare their job placement rates and financial aid opportunities to determine which is your best choice.
- **Military**—talk to recruiters for several branches of the service. See which one offers you the best opportunities. Make an appointment to take the ASVAB and keep in touch with the recruiter of the branch you select.
- **Work**—make sure you have adequate job skills for a career with a future, not just a temporary job. See if the benefits plan offers incentives for further education.

GRADUATION REQUIREMENTS

Twelfth Grade Timeline (check off the items you have completed)

August

- Check out the college websites to research information about admissions, financial aid, majors available, etc. Be sure to check out deadlines.
- Work on the essays required for the college/university applications.
- Update your resume. Be sure to include all of your volunteer work and extracurricular activities.
- Make sure that you have the required classes for your graduation plan and the college or university that you are planning to attend.
- Finalize *Colleges I'm Applying To* list in Naviance.
- Take as many challenging (possibly AP, IB, or Dual Credit) courses as you can.
- Prepare your application carefully either at AppyTexas.org, or CommonApp.org Follow the instructions, and PAY CLOSE ATTENTION TO DEADLINES! Link your Common App in your Naviance account.
- Complete either the Common Application and/or ApplyTexas application and request transcripts for each.
- Be sure to ask your registrar, counselor, and teachers at least two weeks before your application deadlines to submit the necessary documents to colleges (transcript, letters of recommendation, etc.) utilizing Naviance. Some colleges require TRex transcript submission. Check with the college or university.
- Difficulty paying college application fees? See your counselor about getting a fee waiver.
- Need to improve your SAT or ACT score? Register to take it again and study using Shmoop and Khan Academy.
- Use *SuperMatch* in Naviance and complete Common App FERPA waiver on Family Connection.

September

- Keep a calendar with deadlines posted for easy visibility.
- Register for and take SAT and ACT, and SAT Subject Tests, or any other exams required for admission to the colleges to which you are applying if you have not done so.
- Keep up with the scholarship bulletins throughout the year.

October

- Attend College Night and meet the college representatives who may be reviewing your application for admission.
- Check that you are scheduled to graduate at the end of the year.
- Meet with your counselor early to discuss your plans, transcript requests, fee waivers, and letters of recommendation (2-week notice).

November

- Check for scholarship opportunities in counselor's office, Naviance, web sites, etc.; complete and submit application forms before deadlines.
- Request letters of recommendation (2-week notice) from teachers.
- Males need to complete their Selective Service registration. See your counselor for details.
- Verify that the college admissions office has all your paperwork.

January

- Begin the TASFA or FAFSA (Free Application for Federal Student Aid) at www.fafsa.ed.gov.
- Check to see if you will need to fill out a CSS/Financial Aid Profile for the Common App.

February

- Complete your FAFSA or TASFA, if possible.
- If possible, visit the colleges that most interest you.
- Check for scholarship opportunities in counselor's office, Naviance, web sites, etc.; complete and submit application forms before deadlines.
- Check AP Exam Registration dates.

GRADUATION REQUIREMENTS

March

- Continue attending college sessions hosted at your school.
- Check for scholarship opportunities in counselor's office, Naviance, web sites, etc.; complete and submit application forms before deadlines.
- Evaluate the colleges/universities to which you have been admitted and determine which college/university you will be attending. Update the information in Naviance.
- Complete your housing application.

April

- Review your FAFSA Student Aid Report (SAR).
- Review the financial aid packages offered by the different universities. Remember that you have a choice regarding what you will accept and what you will decline. Work with your parents through this process. Be ready to commit by May.
- Submit a copy of your award letters to your counselor/advisor.

May

- Take AP Exams (Advanced Placement Program).
- Do your best on the Texas Success Initiative Assessment (TSI), if applicable (check with counselor).
- Check on your housing arrangements at the college you have selected.
- Complete the *Senior End of the Year* survey in Naviance.

June

- Review your financial aid package; determine if you will need additional monies for college.
- Submit request to registrar to send your final transcript which reflects graduation to the branch of the military service you have enlisted in or to the technical school, college, or university that you will be attending.

Planning for Your Future: Helpful Web Sites

Check out these web sites...

TEST REGISTRATION AND INFORMATION

www.collegeboard.com	Register for the SAT I and SAT II. Do college and financial aid searches.
www.act.org	Online registration for ACT.
www.Shmoop.com	Check with your counselor on creating a free Shmoop account to help you prepare for ACT and SAT

INTEREST INVENTORIES AND CAREER INFORMATION

www.careerkey.org	Click on "CONTINUE," then "YOU" on the second page, and "Take the Career Key" to help select a potential career interest. There is a fee of about \$8.
www.cdr.state.tx.us	Students can search for careers, salaries, and expenses.
www.bls.gov/oco	Nationally-recognized resource offers information on job responsibilities, earnings, and job prospects.

COLLEGE SEARCHES AND APPLICATIONS

www.commonapp.org	Common application for over 200 private colleges and universities with complete instructions for applying online.
www.applytexas.org	The Common Application for Freshman Admission to Texas Public Colleges. Most colleges prefer this application and for it to be completed and submitted online.
www.collegeview.com	Allows you to create a list of schools that meet your preferences for size, geography, areas of study, and student body. Link to the home pages of many universities and email the colleges' admissions offices for more information.
www.collegenet.com	Search for colleges using your defined criteria.
www.nces.ed.gov/ipeds	Search for a school by name, location, program, degree offerings, or a combination of criteria.
www.collegeforalltexas.com	Here is everything a Texan needs to know about preparing for, applying for, and paying for college or technical school.
www.college.gov	Search for information on preparing for, applying for, and paying for college or technical school.
www.naviance.com	Helps students be better prepared for attending college and preparing for a career.

FINANCIAL AID

www.fastweb.org	Build a personal profile to search a massive database of scholarships and get applications for those matching your qualifications.
www.fafsa.ed.gov	The Free Application for Federal Student Aid. Title IV codes. This is the one application for need-based aid, such as grants and loans. DO NOT SUBMIT THIS APPLICATION UNTIL JANUARY of your senior year!
www.fsaid.ed.gov	At this site you can create your FAFSA ID number.
www.studentaid.ed.gov	Federal student financial aid information from the U.S. Department of Education. Includes texts of Funding Your Education, and Student Guide, which is a comprehensive description of the federal student aid programs.

SELECTIVE SERVICE

www.sss.gov	All males 18-25 must register for the selective service. Register online at this site.
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Utilize Family Access, a password-protected site that provides both parents and students access to course grades, homework, attendance, and other data. Visit www.springbranchisd.com, click on "For Parents," and locate Naviance (Family Connections).

Course Descriptions

English Language Arts

- Note:**
- **Certain dual credit courses offered through the Early College Program are available at certain Institutions of Higher Education (IHE). See counselor for courses available and course summaries from participating IHE catalog(s).**
 - **Memorial High School, Stratford High School, and Academy of Choice subscribe to turnitin.com, an anti-plagiarism website. The English department uses this website to identify plagiarism in students' written products.**
 - **Some courses may be used as a 4th English Language Arts course under Foundation Graduation Plan. These courses are designated FP4.**

<p>English I AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>Students enrolled in English I will develop and refine their communication skills. They will plan, draft, edit, and complete written compositions on a regular basis. Students will write to persuade, report, and describe. They will read extensively in multiple genres from world literature. Students learn literary forms and terms and analyze literary works. They will listen to, present, and interpret oral presentations and visual representations. English I students will further develop reading skills.</p>	<p>EL112 A/B Credit: 1.0</p>
<p>English I Pre-AP/GT MHS, NHS, SWHS, SHS, WAIS</p> <p>English I Pre-AP/GT is a fast-paced, rigorous Language Arts program designed to study and practice the skills needed for success in AP or IB English. Students who take this course are expected to grasp concepts quickly and be independent learners with strong reading and composition skills. On-going and extensive readings and writing assignments are aimed at developing higher-level analytical, creative, and problem solving skills, along with a sharpened awareness of one's self and his/her place in the world. Students read multiple genres, learn literary forms, and analyze literature through close reading, both in and outside the classroom. They will refine composition skills including open-ended responses. Students will also listen to, present, and interpret oral and visual representations.</p>	<p>EL111 A/B Pre-AP Course Prerequisite: Pre-AP Guidelines</p> <p>EL110 A/B GT Course Prerequisite: GT Identification</p> <p>Credit: 1.0</p>
<p>English II AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>Students in English II increase and refine their communication skills. They practice all forms of writing on a regular basis with emphasis on persuasive forms such as logical arguments, expressions of opinion and personal writing. Students read extensively in multiple genres from world literature; they read critically and research self-selected and assigned topics. Students produce, analyze, appreciate, and evaluate oral performances and visual representations.</p>	<p>EL122 A/B Prerequisite: English I</p> <p>Credit: 1.0</p>
<p>English II Pre-AP/GT MHS, NHS, SWHS, SHS, WAIS</p> <p>This course is designed for strong readers with proficient composition skills. In addition to acquiring all of the English II knowledge and skills, students will be routinely challenged by close reading and literary analysis of complex texts. The reading pace is rigorous, and much of it is completed outside of class. Writing assignments include timed writings and writings using the writing process including documented essays. A major goal of this course is to develop the student's analytic skills in reading and writing.</p>	<p>EL121 A/B Pre-AP Course Prerequisite: English I and Pre-AP Guidelines</p> <p>EL120 A/B GT Course Prerequisite: English I and GT Identification</p> <p>Credit: 1.0</p>
<p>English III AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>Students in English III further increase and refine their communication skills. Students write frequently in various genres. English III students read extensively in multiple genres from American literature and world literature. They analyze literary texts and research self-selected and assigned topics. Students will prepare, organize, present, and interpret oral and visual representations.</p>	<p>EL132 A/B Prerequisite: English II</p> <p>Credit: 1.0</p>

English Language Arts

<p>English III Accelerated MHS, SHS</p> <p>In English III Accelerated, the students are preparing for success in college English classes. They enhance their communication skills through written and oral presentations addressing a variety of modes and genres. They maintain an extensive writing portfolio to develop their writing as well as thinking skills. English III Accelerated students read extensively within and outside of the classroom in multiple genres from American and world literature. They analyze literary texts and research self-selected and assigned topics.</p>	<p>EL13A A/B Prerequisite: English II Credit: 1.0</p>
<p>English III AP/GT MHS, NHS, SWHS, SHS, WAIS</p> <p>This course prepares students for the Advanced Placement Language and Composition Examination through rigorous analysis of texts and practice of writing in various modes. Student respond to essays, speeches, novels, short stories, and poems from a variety of periods and rhetorical contexts. This class is commensurate with college freshman English. Students are expected to sit for the national AP English Language and Composition Exam in May. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2123.html</p>	<p>EL139 A/B AP Course Prerequisite: English II and AP Guidelines</p> <p>EL130 A/B GT Course Prerequisite: English II and GT Identification Credit: 1.0</p>
<p>English III AP/Dual Credit Campus-based ENGL 1301/1302 MHS, SWHS, SHS</p> <p>DC Option: Students engage in the same intensive study of literature and practice of writing as in the English III AP/GT course while earning college credit at Houston Community College. Enrollment at HCC and purchase of needed textbooks are required. This course prepares students for the English Language and Composition AP exam. <i>This course is taught by SBISD teachers who possess a Master's or Ph.D. degree in English. Turnitin.com is used in this class.</i></p>	<p>EL136 A/B Dual Credit Prerequisite: English II, AP Guidelines, and Dual Credit Criteria Credit: 1.0</p>
<p>English III Dual Credit Campus-based and Early College ENGL 1301/1302 MHS, NHS, SWHS, SHS, WAIS</p> <p>A course devoted to improving the student's writing and critical reading. Writing essays for a variety of purposes from personal to academic, including the introduction to argumentation, critical analysis, and the use of sources. The second semester (1302) is a more extensive study of the skills introduced in ENGL 1301 with an emphasis on critical thinking, research and documentation techniques, and literary and rhetorical analysis. <i>The campus-based program is taught by SBISD faculty at the high school campus. The Early College is taught by HCC faculty at the college campus.</i></p>	<p>EL13D A/B Dual Credit Prerequisite: English II and Dual Credit/ECP Criteria Credit: 1.0 (0.5 per semester)</p> <p>Check with your counselor which option is available on your campus.</p>
<p>IB English III/IV WAIS</p> <p>English III/IV IB at WAIS consists of a two-year program designed to prepare students to be successful in college. Students prepare for the IB battery of oral and written assessments as part of the language A1 requirement for gaining an IB diploma. They view literature from the dual perspectives of readers and writers, and are exposed to a variety of texts representing different cultures and time periods. Students write in a variety of modes for different purposes. In accordance with the charter of WAIS, student exposure to world literature and thought prepares students to interact within and positively impact our global society.</p>	<p>III: EL13I A/B (junior) IV: EL14I A/B (senior) Prerequisite: English II Credit: 2.0 FP4</p>
<p>English IV AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>Students in English IV will continue to increase and refine their communication skills. In English IV students are expected to write on a regular basis in a variety of forms, including business, personal, literary, and persuasive texts. Students read extensively and intensively for different purposes in varied sources, including British literature and other world literature. They read critically to evaluate texts and use reading and research skills to develop self-selected topics. The students listen and speak effectively for a variety of purposes and produce and critique oral performances and visual representations.</p>	<p>EL142 A/B Prerequisite: English III Credit: 1.0 FP4</p>

English Language Arts

<p>English IV AP/GT MHS, NHS, SWHS, SHS, WAIS</p> <p>This college level course prepares students for the complexity of thought required by the AP English Literature and Composition exam. The course prepares students for college-level reading, writing, and independent thinking. Students read and analyze culturally and critically important texts inside and outside of class. Students analyze style, structure, and meaning in a variety of genres and time periods with emphasis on British and world literature. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2124.html</p>	<p>EL149 A/B AP Course Prerequisite: English III and AP Guidelines</p> <p>EL140 A/B GT Course Prerequisite: English III and GT Identification</p> <p>Credit: 1.0 FP4</p>
<p>English IV Dual Credit MHS, NHS, SWHS, SHS</p> <p>Students are given the opportunity to earn six semester hours of college credit in English 1301 and English 1302 (Composition I and II) while also addressing the English IV standards. Students compose a variety of essays incorporating analytical thinking, appropriate strategies for purpose and audience, and correct manuscript form through rigorous revision. Each semester, two essays must be written in class under an instructor's supervision. Students will write at least 5000 words each semester. In the second semester, students will focus specifically on strategies for successful argumentation.</p>	<p>EL146 A/B Prerequisite: English III / Dual Credit Criteria</p> <p>Credit: 1.0 FP4</p>
<p>English IV Dual Credit/Early College ENGL 2322/2323* MHS, NHS, SWHS, SHS, WAIS</p> <p>A critical study of major British writers from the Anglo-Saxon period through the eighteenth century. The second semester includes a critical study of major British writers of the nineteenth and twentieth centuries. This course requires substantial reading and research. <i>*For students who have completed English 1301/1302.</i></p>	<p>EL24D A/B Dual Credit Prerequisite: ENGL 1301/1302*</p> <p>Credit: 1.0 (0.5 per semester) FP4</p>
<p>College Preparatory Reading and Writing</p> <p>This course is offered for students on the Foundation Plan in their 4th year of high school who may not be successful on the Texas Success Initiative (TSI) Assessment or other college readiness measure. Students who enroll in this course will follow the Student Learning Outcomes for Houston Community College (HCC) Developmental Integrated Reading and Writing. Students will also successfully write three essays: expository, persuasive, and critical analysis. College Preparatory Reading and Writing course credit at HCC will be awarded when the student scores a 3 or greater on each of the assigned essays and earns a 75 each semester. Successful completion of both semesters and all HCC course guidelines waives the TSI reading and writing assessment requirement. (HCC INRW 0420)</p>	<p>EL250 A/B Prerequisite: English III; must be senior in high school graduating on the Foundation Plan</p> <p>Credit: 1.0 Type: Elective—4th year English option FP4</p>
<p>ESOL I: English for Speakers of Other Languages</p> <p>This class is for the non-English speaking student who needs to learn basic survival English in listening, speaking, reading, and writing. Students will learn how to carry on a conversation as well as write essays and read short stories. Meets state English requirement for eligible students.</p>	<p>EL116 A/B Prerequisite: LPAC Recommendation</p> <p>Credit: 1.0</p>

English Language Arts

<p>ESOL II: English for Speakers of Other Languages</p> <p>This class is for the non-English speaking student who needs to learn basic survival English in listening, speaking, reading, and writing. Students will learn how to carry on a conversation as well as write essays and read short stories. Meets state English requirement for eligible students.</p> <p><i>*English ESOL I and ESOL II are offered for students whose primary language is a language other than English. Placement is based on an English language fluency assessment and LPAC decision. A maximum of two years of English credit through ESOL may be counted towards graduation requirements.</i></p>	<p>EL126 A/B Prerequisite: LPAC Recommendation Credit: 1.0</p>
<p>Reading I: Reading for Speakers of Other Languages</p> <p>Non-English-speaking students are offered instruction in word recognition, comprehension strategies, and vocabulary. They are given opportunities to locate information in varied sources, to read critically, to evaluate sources, and to draw supportable conclusions. Students learn how various texts are organized and how authors choose language for effect. All these strategies are applied in texts that cross the subject fields.</p>	<p>EL416 A/B Prerequisite: LPAC Recommendation Credit: 1.0</p>
<p>Reading I and II Sheltered: Reading for Speakers of Other Languages</p> <p>ESL (ELL) students are offered instruction in word recognition, comprehension strategies, and vocabulary. They are given opportunities to locate information in varied sources, to read critically, to evaluate sources, and to draw supportable conclusions. Students learn how various texts are organized and how authors choose language for effect. All strategies are applied in texts that address various content areas.</p>	<p>I: EL415 A/B II: EL425 A/B Prerequisite: LPAC Recommendation Credit: 1.0</p>
<p>English I Sheltered</p> <p>Students enrolled in this course will study the same skills as English I with additional support provided as needed. The emphasis is on increasing and improving students' reading, writing, listening, and speaking skills, so students may be successful in English II.</p>	<p>EL115 A/B Prerequisite: LPAC Recommendation Credit: 1.0</p>
<p>English II Sheltered</p> <p>Students enrolled in this course will study the same skills as English II with additional support provided as needed. The emphasis is on increasing and improving students' reading, writing, listening, and speaking skills, so students may be successful in English III.</p>	<p>EL125 A/B Prerequisite: English I Sheltered or English I SOL & LPAC Recommendation Credit: 1.0</p>
<p>English III Sheltered</p> <p>Students enrolled in this course will study the same skills as English III with additional support provided as needed. The emphasis is on increasing and improving students' reading, writing, listening, and speaking skills, so students may be successful in English IV or another 4th English option.</p>	<p>EL135 A/B Prerequisite: English II Sheltered or English II SOL & LPAC Recommendation Credit: 1.0</p>

Language Arts Electives

<p>Creative Writing AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>Creative writing is a course designed to allow students to write creatively in chosen genres. The first half of the course is a survey of various literary genres: fiction, cartoons, screenplays, poetry, plays. The second half is devoted to writing within a writing workshop setting, where students share their work with the class and revise. Students are able to write in whatever genre they prefer and will be encouraged to publish their work in outside publications as well as in a school publication created by members of the class.</p>	<p>EL232 A/B Grades: 10, 11, 12 Credit: 1.0 (MHS 0.5) FP4</p>
<p>Literary Genres—Shakespeare Studies SHS</p> <p>This course introduces students to Shakespeare's repertoire of plays, including comedies, histories, and tragedies. Students read, analyze, discuss, and write about such works as <i>Much Ado about Nothing</i>, <i>Richard III</i>, <i>Henry IV</i>, <i>Othello</i>, and <i>The Tempest</i>. Viewing of scenes from film versions of the plays as well as performance projects offer opportunities to analyze varying interpretations of the plays, including their production and acting choices.</p>	<p>ELA471 A/B Grades: 9-12 MHS; 11-12 SHS Credit: 0.5–1.0 FP4</p>
<p>Practical Writing Skills NHS, SWHS, WAIS</p> <p>This course emphasizes skill in the use of conventions and mechanics of written English, the appropriate and effective application of English grammar, the reading comprehension of informational text, and the effective use of vocabulary. Students are expected to understand the recursive nature of reading and writing. Evaluation of students' own writing as well as the writing of others ensures that students completing this course are able to analyze and evaluate their writing.</p>	<p>ELA212 A/B Prerequisite: English I, II, and III Credit: 1.0</p>
<p>Reading I, II, III AOC, MHS, NHS (Reading I), SWHS</p> <p>Reading I, II, III offer students reading instruction to navigate academic demands successfully as well as attain life-long literacy skills. Specific instruction in word recognition, vocabulary, comprehension strategies, and fluency provides students an opportunity to read with competence, confidence, and understanding. Students learn how traditional and electronic texts are organized and how authors choose language for effect. All of these strategies are applied in instructional-level and independent-level texts that cross the content areas.</p>	<p>I: EL412 A/B II: EL422 A/B III: EL432 A/B Credit: 0.5–3.0 Type: Elective—may be required based on test scores</p>
<p>Literary Genres—Fiction Literature AOC, MHS</p> <p>The purpose of this self-paced elective is to give students the time and opportunity to read books that they would not get to read otherwise and to encourage them to broaden their reading experience by exploring works from other cultures. With the teacher's guidance, students will select and read novels and short story collections by authors from America, Britain, Europe, Asia, South America, and Africa. Students will write informal reader responses and evaluations.</p>	<p>EL282 A/B Grades: 10, 11, 12 Credit: 0.5 each</p>
<p>Photojournalism MHS, SWHS, SHS, WAIS</p> <p>Students enrolled in Photojournalism are expected to plan, interpret, and critique visual representations, and carefully examine their own products for publication. Students study legal and ethical considerations that impact photography. Students also refine and enhance their journalistic skills, especially caption writing and interviewing. Camera basics are also addressed. A lab fee may apply to this course. <i>Requirements: A digital camera.</i></p>	<p>ELA302 ELA302 A/B Credit: 0.5-1.0 Requirements: digital camera</p>
<p>Journalism I MHS, SHS, WAIS</p> <p>Provides the student with the background and fundamentals of journalism including writing each of the four journalistic styles, history and legalities of journalism, graphic design and layout, desktop publishing and computer technology and use of Adobe InDesign and Photoshop. This course is a prerequisite for anyone desiring to apply for a reporter/writer/designer/editor position on the school yearbook or newspaper staff.</p>	<p>EL322 A/B Credit: 1.0</p>

Language Arts Electives

<p>Advanced Journalism— Newspaper Production I, II, III MHS, SWHS, SHS, WAIS</p> <p>Available for sophomores through seniors interested in planning, financing, and implementing the writing, editing, and producing of a newspaper using current computer technology. Courses must be taken sequentially.</p>	<p>I: EL332 A/B II: EL342 A/B III: EL352 A/B Prerequisite: Journalism I and/or teacher recommendation; see counselor for information Credit: 1.0 Newspaper III—FP4</p>
<p>Advanced Journalism— Desktop Publishing MHS, SWHS</p> <p>Provides credit for those students who will develop skills for successful publication of either the yearbook or newspaper.</p>	<p>Yearbook: EL386 A/B Newspaper: EL356 A/B Prerequisite: 2 credits in Advanced Journalism and teacher recommendation Credit: 1.0</p>
<p>Advanced Journalism— Yearbook Production I, II, and III MHS, NHS, SWHS, SHS</p> <p>Available for sophomores through seniors interested in planning, financing, and implementing the writing, editing, and producing of the yearbook using current computer technology. Courses must be taken sequentially.</p>	<p>I: EL362 A/B II: EL372 A/B III: EL382 A/B Prerequisite: Journalism I and/or teacher recommendation; see counselor for information Credit: 1.0 Yearbook III—FP4</p>
<p>Independent Study Journalism SHS</p> <p>Course designed for the highly-motivated, self-directed student who wishes to study in-depth photography, computer pagination, or layout.</p>	<p>EL392 A/B Prerequisite: Journalism I, Newspaper, Yearbook, Photojournalism, and/or teacher recommendation Credit: 0.5 FP4</p>
<p>Broadcast Journalism I MHS, SHS, WAIS</p> <p>The purpose of this course is to provide opportunities for students to develop introductory skills in television production, including media skills, verbal skills, and teamwork. The content will include an overview of television; the history of mass communications with a special emphasis on media literacy; television careers; writing for television compared to other media; and learning equipment such as camera, video recorder, mixer, lighting, and character generator. Students will also produce videos to be used during announcements.</p>	<p>EL312 A/B Prerequisite: Application and/or teacher recommendation Credit: 0.5–1.0</p>
<p>Broadcast Journalism II Broadcast Journalism III MHS, SHS, WAIS</p> <p>The purpose of this course is to provide the student with quality academic instruction in television production by building on what was learned in the Broadcast Journalism I. They will receive further training in equipment operation, reporting, and scriptwriting, as well as planning, directing, and producing video projects that include the school news program.</p>	<p>II: EL313 A/B III: EL314 A/B Prerequisite: Broadcast Journalism I and/or permission from advisor Grades: 10-12 Credit: 1.0 Broadcast Journalism III—FP4</p>
<p>Humanities WAIS</p> <p>Humanities is offered exclusively to 10th graders who are interested in the International Baccalaureate Programme. 10th grade Humanities is a year-long course focused on making connections across curricular areas and disciplines, thinking critically, and problem solving. The majority of the course is centered upon discussion, projects, presentations, and student choice. Students have the opportunities to design their own independent study projects throughout the year in addition to working on theme-based projects that encourage global thinking. Writing of compositions, journals and research texts is expected throughout the course.</p>	<p>EL262 A/B Prerequisite: Interest in pursuing IB Programme Grade: 10 Credit: 1.0 FP4</p>

Language Arts Electives

<p>Theory of Knowledge WAIS</p> <p>Theory of Knowledge is a primary tenet of the IB Diploma Programme. Students reflect on themselves as knowers in the act of knowing. They are challenged to reflect critically and become increasingly aware of the complexity of their knowledge. Students delve into the foundations of knowledge, comparing, contrasting, and connecting various ways of knowing. Six different areas of knowledge are the subject of critical inquiry as students explore and examine the interconnected nature of knowledge.</p>	<p>I: EL271 A/B II: EL281 A/B Prerequisite: Approved by the IB Coordinator Grades: 11-12 Credit: 0.5 each</p>
<p>(IBCP) Approaches to Learning WAIS</p> <p>This course complements the students' career and technical classes taken at the Guthrie Center. Class topic and activities revolve around thinking skills, intercultural understanding, communication, and personal development.</p>	<p>SS337 A/B Credit: 1.0</p>
<p>Visual Media Analysis and Production AOC, SHS</p> <p>This class focuses on looking at how elements of film technique enhance the telling of a cinematic story. Students will explore the variety of film genres such as westerns, musicals, hard-boiled detectives, war movies, and romances which comprise American film. Students will engage in viewing, discussion and analysis, and writing about movies.</p>	<p>EL276 Grades: 9-12 MHS; 11-12 SHS Credit: 0.5 FP4</p>

Language Arts Electives

Speech and Debate

<p>Communication Applications AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>Students will understand and employ concepts and processes in sending and receiving oral messages, evaluating, recognizing using nonverbal communication, listening, and speaking for a variety of purposes. They will develop communication competence in interpersonal, group, and public interaction to establish and maintain productive relationships and function effectively in social, academic, professional, and citizenship roles. Students must research, outline, write, prepare, and deliver a minimum of five oral presentations to the class, including informative speaking, persuasive speaking, debate, extemporaneous, and impromptu presentations. Students will prepare a resume and participate in the formal interview process.</p>	<p>ELA512 OPTIONS: ESOL Communication Applications Credit: 0.5 FP4</p>
<p>Communication Applications Early College Program/Dual Credit SWHS</p> <p>A survey course in the basic principles of oral communication. Includes the study of the use of the body and voice, the speaker-listener relationship, and preparation and delivery of platform speeches.</p>	<p>Dual Credit Credit: 0.5</p>
<p>Debate I-IV MHS, NHS, SWHS, SHS, WAIS</p> <p>Students will study specific formats and forums of debate. They will learn processes of logic and critical thinking as they prepare briefs and cases. They will participate in the debate process of witness, questioner, and auditor, and they will make evaluations of arguments. They will make debate presentations in classroom and tournament situations. Students in Debate are expected to attend tournaments.</p>	<p>I: EL552 A/B II: EL562 A/B III: EL572 A/B IV: EL582 A/B Credit: 1.0 each Debate III—FP4; Debate IV—FP4; considered Independent Study in Speech OPTIONS: With teacher approval, a student may choose a full year that combines the required Communication Applications and 0.5 credit in Debate for a full year course.</p>
<p>Oral Interpretation I-IV SWHS</p> <p>This course introduces the dramatic study of literature through performance. Emphasis is on analysis and performance of poetry, drama, and prose fiction. Upon completion, students should be able to appreciate and to participate in the critical analysis of various literary voices. Students will compete in oral interpretation events at speech and debate tournaments.</p>	<p>ELA514 ELA514 A/B Credit: 1.0 FP4</p>

Mathematics

Note: Certain dual credit courses offered through the Early College Program are available at certain Institutions of Higher Education (IHE). See counselor for courses available and course summaries from participating IHE catalog(s).

- Some courses may be used as an advanced mathematics course under the Foundation Graduation Plan. These courses are designated **FPAM**.

<p>Algebra I AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>Algebra I is the study of algebraic expressions, equations, inequalities, systems of equations and linear, quadratic, and other non-linear functions along with their graphs and applications. Intense preparation to meet STAAR standards is included. A strong background in Algebra I is essential for success in higher level math classes. A grade of 75 or better for the second semester is highly recommended for success in Algebra II.</p>	<p>OPTIONS: Grade Level: MT212 A/B Pre-AP: MT211 A/B Credit: 1.0 State math credit Type: Required—1st year math credit</p>
<p>Geometry AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>Geometry includes the Euclidean study of geometric figures and their relationships, and the study of measurement, area, volume, and similarity. Intense preparation to meet STAAR standards is included.</p>	<p>OPTIONS: Grade Level: MT312 A/B Pre-AP: MT311 A/B GT: MT310 A/B Prerequisite: Algebra I Credit: 1.0 State math credit Type: Required—2nd year math credit</p>
<p>Mathematical Models with Applications* AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>MMA is designed to develop mathematical models and connect the models to a variety of real world situations to make predictions based on collected data. Students will also learn about financial management including income management, tax preparation, and investment strategies. This course serves as a bridge to Algebra II. Intense preparation to meet the STAAR standards is included.</p> <p>* MMA must be taken prior to Algebra II for RHSP</p>	<p>MT702 A/B Prerequisite: Algebra I Credit: 1.0 State math credit Type: Elective—3rd year math credit FPAM</p>
<p>Algebra II AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>Algebra II is the study of the number system, quadratic functions and relations along with their graphs and applications, polynomials, rational functions, systems of equations (linear and quadratic), exponential and logarithmic functions, and data handling and analyses. NOTE: A graphing calculator for home use is recommended for this course. Algebra II is required for the Distinguished Achievement Award and eligibility for Top 10%.</p>	<p>OPTIONS: Grade Level: MT232 A/B Pre-AP: MT231 A/B GT: MT230 A/B Prerequisite: Geometry Credit: 1.0 State math credit Type: Required—3rd year math credit or 4th year for students who took MMA on RHSP FPAM</p>
<p>Pre-Calculus AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>Pre-Calculus is the study of trigonometry, analytic geometry, and elementary analysis. It is the prerequisite to Calculus.</p>	<p>OPTIONS: Grade Level: MT402 A/B Pre-AP: MT401 A/B GT: MT400 A/B Prerequisite: 80 or better in Algebra II highly recommended Credit: 1.0 State math credit Type: Elective—4th year math credit FPAM</p>

Mathematics Options

ELECTIVES

<p>Algebraic Reasoning AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>This TEKS-based course will build on the skills developed in Algebra I through both an analysis lens and an application lens. Students will study algebraic patterns and structures, use number and algebraic methods relating to functions, and model data using tables, graphs, and symbols where appropriate.</p>	<p>MT602 A/B Prerequisite: Algebra I Credit: 1.0 State math credit Type: Elective—4th year math option FPAM</p>
<p>Advanced Quantitative Reasoning (Grade Level) WAIS</p> <p>The course emphasizes statistics and financial applications and prepares students to use algebra, geometry, trigonometry, and discrete mathematics to model a range of situations and solve problems. http://apcentral.collegeboard.com/apc/public/repository/52269_apstatistics_lo_4328.pdf</p>	<p>MT530 A/B Prerequisite: Algebra II Credit: 1.0 State math credit FPAM</p>
<p>College Preparatory Mathematics (HCC MT0409/MT0312) AOC, MHS, NHS, SWHS, SHS</p> <p>This course is offered for students in their 4th year of high school who may not be successful on the Texas Success Initiative (TSI) Assessment or other college readiness measure. Students who enroll in this course will follow the student learning outcomes for Houston Community College (HCC) developmental mathematics courses MT0409 and MT0312. Developmental mathematics credit at HCC will be awarded each semester when the student successfully completes the course. Meeting the standard for earning HCC developmental mathematics credit will waive the TSI mathematics requirement.</p>	<p>MT540 A/B Prerequisite: Must be in senior year of high school Credit: 1.0 math credit Type: Elective—4th year math option FPAM</p>
<p>Algebra III MHS, NHS, SWHS, SHS</p> <p>The goal of this class is to prepare the students to be successful in a college algebra class at the university level. A student who successfully completes this course may be able to earn college algebra credit by talking the CLEP test or the placement test offered by the college he/she plans to attend. The class reviews and expands on topics covered in Algebra I and Algebra II and introduces some Pre-Calculus topics. The course will include an extended look at the functions learned in Algebra II including polynomial, rational, exponential, and logarithmic functions. Students will also learn matrices and determinants as well as some trigonometry topics. <i>Calculator: TI-83+ or TI-84+</i></p>	<p>MT251 A/B Prerequisite: Algebra II Credit: 1.0 State math credit Type: Elective—4th year math option recommended for students who are not highly recommended for Pre-Calculus FPAM</p>
<p>Statistics MHS, SWHS</p> <p>This TEKS-based course builds on the Probability and Statistics TEKS from Grades 6-8 and the Data TEKS from Geometry. Students will develop an understanding of variability to become good consumers of data and be prepared to be successful in a college-level Elementary Statistics class.</p>	<p>MT502 A/B Prerequisite: Algebra I and Geometry Credit: 1.0 State math credit Type: Elective—4th year math option FPAM</p>
<p>Statistics AP MHS, NHS, SWHS, SHS, WAIS</p> <p>The study of statistics includes exploring data (observing patterns and departures from patterns), planning a study (decide what and how to measure), anticipating patterns (produce models using probability and simulation), and statistical inference (confirming models). This course prepares students for the AP Statistics exam which could award college credit. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2151.html</p>	<p>OPTIONS: AP: MT519 A/B GT: MT510 A/B Prerequisite: Algebra II Pre-AP, Algebra II GT/ Pre-AP, or Pre-Calculus Credit: 1.0 State math credit FPAM</p>

Mathematics Options

<p>IB Mathematics Higher Level (HL), Standard Level (SL) and Math Studies SL WAIS</p> <p>IB Mathematics HL, IB Math SL, and Math Studies SL in the IB Programme are two-year courses of study. Topics are algebra concepts, functions and equations, circular functions and trigonometry, matrices, vectors, statistics and probability, and calculus. Students will complete the course requirements of Pre-Calculus in 11th grade and Calculus in 12th grade. IB Mathematics Yr-1, IB Mathematics Yr-2.</p>	<p>OPTIONS: HL: MT42I A/B SL: MT41I A/B MS: MT43I A/B</p> <p>Prerequisite: Algebra II for all IB Math courses Credit: 1.0 State math credit each year Type: Required (Math Studies Algebra II); Elective credit for IB Math HL/SL FPAM</p>
<p>Calculus (Grade Level) MHS, SWHS, SHS</p> <p>During the first 12 weeks, topics of Analytic Geometry will be taught. This includes: fundamental concepts of coordinate geometry, the straight line, conics, simplification of equations, algebraic curves, transcendental functions, and parametric equations. The rest of the year (24 weeks) will include topics of Calculus: limits; differentiation; applications of differentiation; integration; logarithmic, exponential, and other transcendental functions; and applications of integration. <i>Calculator: TI-83+ or TI-84+</i></p>	<p>MT412 A/B Prerequisite: Pre-Calculus (recommend 75+) Credit: 1.0 Local math credit</p>
<p>Calculus AB AP MHS, NHS, SWHS, SHS, WAIS</p> <p>Calculus AB is the study of functions, graphs, and limits; derivatives; and integrals. This course prepares students for the College Board Advanced Placement AB Calculus exam which could earn college credit for the first college Calculus course. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2178.html</p>	<p>OPTIONS: AP: MT419 A/B GT: MT418 A/B</p> <p>Prerequisite: Pre-Calculus (80+), Pre-Calculus Pre-AP (75+), or teacher recommendation Credit: 1.0 State math credit FPAM</p>
<p>Calculus BC AP MHS, SWHS, SHS</p> <p>Calculus BC is the study of functions, graphs, and limits; derivatives; integrals; and polynomial approximations and series. BC Calculus extends the study of Calculus AB to include preparation for the BC level AP exam which could earn the student credit for the first two college Calculus courses. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2118.html</p>	<p>OPTIONS: AP: MT429 A/B GT: MT428 A/B</p> <p>Prerequisite: Pre-Calculus GT, Pre-Calculus Pre-AP (85+) Credit: 1.0 State math credit FPAM</p>

DUAL CREDIT ELECTIVES

These courses are arranged through counselor.

<p>College Algebra Early College Program/Dual Credit SWHS</p> <p>Topics include quadratics, polynomial, rational, logarithmic and exponential functions, system of equations, progression, sequences and series, matrices and determinants. A departmental final examination will be given in this course. 3 (3 lecture)</p>	<p>Dual Credit Prerequisite: Completion of Algebra II and meet DC/ECP eligibility criteria Credit: 0.5 FPAM</p>
<p>Plane Trigonometry Early College Program/Dual Credit AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>Topics include solutions of triangles, Euler identity, graphing of trigonometric and inverse trigonometric functions, identities, trigonometric equations and an introduction to vector analysis. 3 (3 lecture)</p>	<p>Dual Credit Prerequisite: Completion of College Algebra (1314) and meet DC/ECP eligibility criteria Credit: 0.5 FPAM</p>

Mathematics Options

<p>Finite Mathematics with Applications Early College Program/Dual Credit AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>A survey of finite mathematics and its application to problems of business and the natural and social sciences. Topics include set theory, probability, an introduction to matrices, linear programming, and an introduction to statistics. 3 (3 lecture)</p>	<p>Dual Credit Prerequisite: Completion of College Algebra (1314) and meet DC/ECP eligibility criteria Credit: 0.5 FPAM</p>
<p>Elements of Calculus with Applications Early College Program/Dual Credit AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>A survey of differential and integral calculus including the study of functions and graphs from a calculus viewpoint as applied to problems in business and the natural and social sciences. 3 (3 lecture)</p>	<p>Dual Credit Prerequisite: Completion of College Algebra (1314) and meet DC/ECP eligibility criteria Credit: 0.5 FPAM</p>
<p>Pre-Calculus Early College Program/Dual Credit AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>Topics include elementary theory of functions and equations, analytic geometry, vectors, introductory logic, mathematical induction, sequences and finite series. (4 credits)</p>	<p>Dual Credit Prerequisite: Completion of College Algebra (1314) and Plane Trigonometry and meet DC/ECP eligibility criteria Credit: 0.5 FPAM</p>
<p>Calculus I Early College Program/Dual Credit AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>An integrated study of differential calculus with analytic geometry including the study of functions, limits, continuity, differentiation, and an introduction to integration. (4 credits)</p>	<p>Dual Credit Prerequisite: Completion of ECP/DC Pre-Calculus (2412) and meet DC/ECP eligibility criteria Credit: 0.5 FPAM</p>
<p>Calculus II Early College Program/Dual Credit AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>Integral calculus including discussions of transcendental functions, applications of integration, techniques and improper integrals, infinite series, Taylor series, plane curves, and polar coordinates. (4 credits)</p>	<p>Dual Credit Prerequisite: Completion of ECP/DC Calculus (2413) and meet DC/ECP eligibility criteria Credit: 0.5 FPAM</p>
<p>Calculus III Early College Program/Dual Credit AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>A survey of advanced topics in calculus including vectors and vector-valued functions, partial differentiation, Lagrange multipliers, multiple integrals, Jacobians, divergence and Stoke's theorems. (4 credits)</p>	<p>Dual Credit Prerequisite: Completion of ECP/DC Calculus II (2414) and meet DC/ECP eligibility criteria Credit: 0.5 FPAM</p>

Science

Note: Certain dual credit courses offered through the Early College Program are available at certain Institutions of Higher Education (IHE). See counselor for courses available and course summaries from participating IHE catalog(s).

<p>Biology I AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>Students investigate the structure and function of living organisms and the environment in which they live, using a variety of instructional strategies, including a special emphasis on laboratory experiences and real world applications.</p> <p><i>Please note:</i> Dual Language students at WAIS will take this course in Spanish</p>	<p>Grade Level: SC122 A/B Pre-AP: SC121 A/B GT: SC120 A/B</p> <p>Note: Concurrent enrollment in or completion of Algebra I is required. GT and Pre-AP courses may be combined; required for all students</p> <p>Grades: 9-10 Credit: 1.0</p>
<p>Chemistry I AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>Students develop critical thinking and problem solving skills. Students conduct laboratory investigations using scientific methods. Topics include characteristics of matter, measurement, energy transformation, atomic structure, periodic table, gases, bonding, nuclear chemistry, oxidation-reduction, chemical equations and reactions, solutions and acids and bases. Students investigate how chemistry is an integral part of everyday life.</p>	<p>Grade Level: SC212 A/B Pre-AP: SC211 A/B GT: SC210 A/B</p> <p>Prerequisite: Biology and Algebra I</p> <p>Credit: 1.0 Type: Fulfills requirement for 2nd or 3rd science credit</p>
<p>Physics I AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>Students learn the fundamental rules that govern the physical universe. The topics included are motion, forces, conservation laws, waves, sound, light, optics, electricity and magnetism. Students collect and analyze data as they conduct lab experiments and projects and use the information learned to draw reasonable conclusions. Students combine problem solving and critical thinking as they apply physics concepts to the study of energy.</p>	<p>Grade Level: SC312 A/B Pre-AP: SC311 A/B GT: SC310 A/B</p> <p>Prerequisite: Biology and Algebra I</p> <p>Prerequisite for Pre-AP: (suggested concurrent enrollment in Pre-Calculus)</p> <p>Credit: 1.0 Type: Fulfills requirement for 2nd or 3rd science credit</p>
<p>Integrated Physics and Chemistry (IPC) AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>This course introduces the basic concepts of physics and chemistry. Students conduct experiments and improve their problem solving and critical thinking skills as they study energy and matter. Topics include sound, light, motion, forces, electricity, elements, compounds, chemical reactions, solutions, acids, and bases.</p> <p><i>Note:</i> IPC cannot be taken after a student has taken Chemistry or Physics. This course is a good option for students who struggle in math and/or science.</p>	<p>SC112 A/B Credit: 1.0 Type: Fulfills requirement for 2nd science credit</p>
<p>Environmental Systems AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>Students study a variety of topics that may include: biotic and abiotic factors in habitats; ecosystems and biomes; interrelationships among resources and on environmental system; sources and flow of energy through an environmental system; relationships between carrying capacity and changes in populations and ecosystems; and changes in environments. Counts as elective credit only.</p>	<p>SC472 A/B Prerequisite: Biology and physical science course (IPC or Physics)</p> <p>Credit: 1.0 Type: Fulfills requirement for 3rd or advanced science credit</p>
<p>Earth and Space Science AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>This course is an Earth systems approach to the themes of Earth in space and time, solid Earth, and fluid Earth with three strands used throughout each of the themes: systems, energy, and relevance. Laboratory and field investigations are included in a blended learning environment.</p>	<p>SC812 A/B Prerequisite: 3 units of science, including Biology</p> <p>Credit: 1.0 Type: Fulfills requirement for 3rd or advanced science credit</p>

Science

<p>Aquatic Science MHS, SWHS, SHS, WAIS</p> <p>Students study aquatic ecosystems, relationships among aquatic organisms and their habitats, and dynamics of aquatic environments. Studies also include geology and social sciences of marine and freshwater environments. Students will build and maintain fresh and salt water aquaria, and participate in field studies. Costs are associated with this course.</p>	<p>SC412 A/B Prerequisite: Biology and 2nd science course Credit: 1.0 Type: Fulfills requirement for 3rd or advanced science credit</p>
<p>Medical Microbiology NHS, SWHS, SHS</p> <p>This course is a study of microorganisms important in disease. Students prepare media, culture, stain, and also perform various tests to help them identify a large variety of different microorganisms. Diseases caused by microorganisms are also studied.</p>	<p>SCI712 Prerequisite: Chemistry I, Biology Credit: 0.5 Type: Fulfills requirement for 3rd or advanced science credit</p>
<p>Pathophysiology NHS, SWHS, SHS</p> <p>This course is the study of the human body and how it fights disease. Students will study different parts of the body and learn about the different types of cells that comprise these parts. They will learn how to identify normal cells and cells with atypical cellular changes. In addition they will learn how cellular changes can cause disease.</p>	<p>SCI722 Prerequisite: Chemistry I, Biology Credit: 0.5 Type: Fulfills requirement for 3rd or advanced science credit</p>
<p>Anatomy and Physiology of Human Systems AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>A full-year course with introduction to the anatomical human body system and physiological functions. Emphasis on transport systems involved in the circulatory, respiratory, and excretory system, as well as electrical conduction in nerve and muscle stimulation. A survey of the responses of the human body to internal and external stimuli as well as the need for maintaining homeostasis. (May be articulated with Houston Community College. Check with your counselor)</p>	<p>SC442 A/B Prerequisite: Biology and Chemistry Note: This course is NOT available for students who have taken a similar course under HOSA. Grades: 11, 12 Credit: 1.0 Type: Fulfills requirement for 3rd or advanced science credit</p>
<p>Advanced Biotechnology MHS, SWHS</p> <p>Apply advanced academic knowledge and skills to the emerging fields of biotechnology such as agricultural, medical, regulatory, and forensics. Students will have the opportunity to use sophisticated laboratory equipment, perform statistical analysis, and practice quality-control techniques.</p>	<p>CST12 A/B Prerequisite: Biology and Chemistry Grades: 11, 12 Credit: 1.0 Type: Fulfills requirement for 3rd or advanced science credit</p>
<p>Advanced Biotechnology Dual Credit Biology MHS</p> <p>In Advanced Biotechnology (Dual Credit), students will earn 8 hours of biology college credit through Houston Community College while addressing the Advanced Biotechnology standards. Topics include molecular biology, biological processes, cellular processes, evolution, genetics, classification and ecological interactions, and systems. Students must pay tuition/fees to HCC and purchase any required texts.</p>	<p>CST11 A/B Prerequisite: Biology I and Chemistry I, and meet DC/ECP eligibility criteria Grades: 11, 12 Credit: 1.0 Type: Fulfills requirement for 3rd or advanced science credit</p>
<p>Food Science SWHS</p> <p>Designed to reinforce and enhance the student's knowledge of scientific principles and processes through the study of foods and nutrition. An in-depth understanding of science as it applies to foods will assist students with interest in career and technical education, to understand the food industry as well as food preparation in their daily lives. Whenever possible, students will be involved in hands-on laboratory activities which verify the scientific concepts presented.</p>	<p>SC432 A/B Prerequisite: 3 units of science; recommended prerequisite: Principles of Hospitality and Tourism Credit: 1.0 Type: Fulfills requirement for advanced science credit</p>

Science

<p>Forensic Science MHS, SWHS</p> <p>Connect science to law and find out what it takes to solve crimes. Find out what science can and cannot do in crime fighting.</p>	<p>CTLW50 A/B Prerequisite: Biology and Chemistry Grades: 11, 12 Credit: 1.0 Type: Fulfills requirement for 3rd or advanced science credit</p>
<p>Biology II AP MHS, NHS, SWHS, SHS, WAIS</p> <p>The Advanced Placement course in Biology reflects the comprehensive “general biology” course given in many universities, which serves either as a terminal course or as an introduction to a major sequence of courses. The AP examination is taken in May. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2117.html</p>	<p>AP: SC149 A/B GT: SC148 A/B Prerequisite: Check with Counselor—varies at each campus; AP guidelines Credit: 1.0 Type: Fulfills requirement for 3rd or advanced science credit</p>
<p>Biology II AP—Dual Credit Biology SWHS HCC BIOL 1406/1407</p> <p>In DC Biology, students may earn up to 8 hours of college credit through Houston Community College while addressing the AP Biology or Advanced Biotechnology standards. Topics include molecular biology, biological processes, cellular processes, evolution, genetics, classification and ecological interactions, and systems. Students must pay tuition/fees to HCC and purchase any required texts.</p>	<p>SC146 A/B Prerequisite: Biology I and Chemistry I, and meet DC/ECP eligibility criteria Grades: 11, 12 Credit: 1.0 Type: Fulfills requirement for 3rd or advanced science credit</p>
<p>Chemistry II AP MHS, NHS, SWHS, SHS</p> <p>This is an advanced college-level chemistry course that follows the College Board Advanced Placement curriculum objectives and laboratory experiences. Emphasis is on advanced chemistry concepts, critical thinking, and independent study. Students are prepared and expected to sit for the national AP Chemistry Exam at the end of the course in May. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2119.html</p>	<p>AP: SC229 A/B GT: SC228 A/B Prerequisite: Biology, Algebra II, Chemistry I GT or Pre-AP (check with Counselor; varies at each campus) Credit: 1.0 Type: Fulfills requirement for 2nd or 3rd science credit</p>
<p>Chemistry II AP—Dual Credit Chemistry SWHS</p> <p>This course teaches the nature of matter, matter’s chemical and physical properties, chemical bonding, chemical reactions and equilibrium, chemical quantities and solutions, acids, bases, and buffers, and oxidation-reduction chemistry. The objective of the course is to build on the student’s existing knowledge of chemistry, to explore chemistry as it applies to examples in and out of the classroom, and to integrate chemical principles with other areas of science including physics, biology, environmental science, biochemistry, and chemistry in society. Dual Credit Chemistry allows students to earn 8 hours of college credit while taking the course at the high school level. There is also a lab component to this course. Students must pay tuition/fees to HCC and purchase any required texts.</p>	<p>SC230 A/B Prerequisite: Biology I and Chemistry I, and meet DC/ECP eligibility criteria Grades: 11, 12 Credit: 1.0 Type: Fulfills requirement for 3rd or advanced science credit</p>
<p>Environmental Science AP MHS, NHS, SWHS, SHS</p> <p>The goal of this course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human made, to evaluate the relative risks associated with these problems and to examine alternative solutions for resolving and/or preventing them. This class is both laboratory-based and field-based with long-term field study sites being utilized. There is a required community service element with this course. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2128.html</p>	<p>SC479 A/B Prerequisite: Biology and 2nd science; Biology and Chemistry (SHS); 2 years Pre-AP level lab sciences (MHS) Grades: 11-12 Credit: 1.0 Type: Fulfills requirement for 3rd or advanced science credit</p>

Science

<p>Physics 1 AP MHS, NHS, SWHS, SHS</p> <p>This course is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2262.html</p>	<p>AP: SC316 A/B GT: SC317 A/B</p> <p>Prerequisite: Biology and completion of Algebra II (suggested concurrent enrollment in Pre-Calculus)</p> <p>Credit: 1.0</p> <p>Type: Fulfills requirement for 2nd or 3rd science credit</p>
<p>Physics 2 AP MHS, NHS, SWHS</p> <p>This course is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/225113.html</p>	<p>AP: SC326 A/B GT: SC327 A/B</p> <p>Prerequisite: AP Physics I or comparable course and concurrent enrollment in Pre-Calculus</p> <p>Credit: 1.0</p> <p>Type: Fulfills requirement for 3rd or advanced science credit</p>
<p>Physics C AP MHS, SWHS, SHS</p> <p>This college-level course looks at the mechanical and electromagnetic aspects of physics from a calculus viewpoint. Geared more for technical or engineering majors. Students will be prepared to take the AP Exam for Physics C, as well as being prepared for a college physics class. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2263.html</p>	<p>AP: SC329 A/B GT: SC328 A/B</p> <p>Prerequisite: Pre-AP Physics, Physics 1 AP, or Physics 2 AP; concurrent enrollment in Calculus</p> <p>Credit: 1.0</p> <p>Type: Fulfills requirement for 3rd or advanced science credit</p>
<p>IB Biology Standard Level (SL) or Higher Level (HL) WAIS</p> <p>IB Biology will help students to understand the life sciences by incorporating experimental and theoretical knowledge. The course emphasizes terminology, analytical thinking, and the application of knowledge by using laboratory and bio-technology resources. The IB Biology candidate should have the necessary background in biology, chemistry, and physics to be prepared for this course. A precise and rigorous college introduction of the biological sciences content will be emphasized. The curriculum will stress scientific method, experimental activities, bio-technology, and practical investigations. The IB Biology SL course is taught over a one-year period. IB Biology HL is a two-year course which delves deeper into specific content areas such as genetic engineering, bio-ethics, and ecology. Also offered for Biology Dual Credit.</p>	<p>HL: SC141 A/B SL: SC131 A/B</p> <p>Prerequisite: Biology I, Chemistry I, Dual Credit Criteria</p> <p>Credit: 1.0 each</p> <p>Type: Fulfills requirement for 3rd or advanced science credit</p>
<p>IB Chemistry Standard Level (SL) or Higher Level (HL) WAIS</p> <p>Chemistry is a must for students who intend to pursue careers in almost any pure or applied science such as engineering, environmental sciences, biological sciences, medicine, textiles and the oil and gas industry. It is also an excellent subject for students intending to do arts or humanities courses at university. Interest and enthusiasm are essential attributes for students to succeed and benefit from IB chemistry. However, the course does have a high mathematics content, so you should be enrolled in the IB Mathematics course at the Pre-Calculus/Calculus level. A strong background in science is also required. This is a two-year course. Also offered for Chemistry Dual Credit.</p>	<p>SL: SC221 A/B HL: SC231 A/B</p> <p>Prerequisite: Algebra II, Chemistry, and Biology</p> <p>Credit: 1.0 each</p> <p>Type: Fulfills requirement for 2nd or 3rd science credit</p>

Science

<p>IB Physics Standard Level (SL) or Higher Level (HL)</p> <p>IB Physics seeks to explain the universe through studying and learning about the smallest particles to the vast distances between galaxies. Students develop practical skills and techniques through learning experiences and increase proficiency through the platform of mathematics and the language of physics. Students will mature interpersonal skills, technology skills, and problem-solving skills. Students will also study the impact of physics on society, the moral and ethical dilemmas, and the social, economic, and environmental implications of the work of physicists.</p>	WAIS	<p>SC36I A/B</p> <p>Prerequisite: Biology I and Chemistry I. Algebra II recommended</p> <p>Credit: 1.0 each</p> <p>Type: Fulfills requirement for 2nd or 3rd science credit</p>
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Social Studies

Note: Certain dual credit courses offered through the Early College Program are available at certain Institutions of Higher Education (IHE). See counselor for courses available and course summaries from participating IHE catalog(s).

<p>World Geography AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>World Geography is more than just learning about continents, oceans and mountain ranges. It is a source and a framework to begin to understand global problems. In World Geography, 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. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major land forms, 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 world population; relationships among people, places, and environments; and the concept of region. Students analyze how location affects economic activities in different economic systems throughout the world. 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.</p>	<p>OPTIONS: Grade Level: SS132 A/B Pre-AP: SS131 A/B GT: SS130 A/B Sheltered: SS135 A/B Grade: 9 Credit: 1.0</p>
<p>Advanced Placement Human Geography MHS, NHS, SWHS, WAIS</p> <p>This course is meant to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. The course follows the AP Human Geography course description. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/8154.html</p>	<p>SS139 A/B Credit: 1.0 Type: Can substitute for W. Geography or Elective</p>
<p>World History AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>World History Studies is the only course offering students an overview of the entire history of humankind. The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilization as well as in civilizations in other parts of the world. Students evaluate the causes and effects of political and economic imperialism and of major political revolutions since the 17th century. 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 democratic-republican 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.</p>	<p>OPTIONS: Grade Level: SS122 A/B Pre-AP: SS121 A/B GT: SS120 A/B Sheltered: SS125 A/B Grade: 10 Credit: 1.0</p>

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<p>World History AP MHS, SWHS, SHS, WAIS</p> <p>AP World History is a college-level, global, thematic world history course designed to prepare students to take the rigorous AP World History exam. Success in the course requires extensive reading, high-level thinking, strong study skills, self-discipline, and a high maturity level. Using six broad historical themes across five different periods emphasizing 600 CE to the present, students will study a macro history of the world. Europe will be studied in the context of its global position, and will comprise less than 20% of the course. Students will study broad trends that cross time periods and geographic regions. Themes to be explored include interactions (trade, war, diplomacy, international exchange) among major societies, impact of technology and demography on people and the environment (population growth and decline, disease, manufacturing, migration, agriculture and weaponry), systems of social and gender structure, cultural and intellectual development, and changes in functions and structures of states. The course will culminate in students taking the AP World History exam. The course may substitute for the world history requirement.</p> <p>http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/4484.html</p>	<p>SS129 A/B Grades: 10, 11, 12 Credit: 1.0</p>
<p>United States History Studies since Reconstruction (1877 to the Present) AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>In this course students study the history of the United States since Reconstruction to the present. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies of the Cold War and post-Cold War eras, and reform movements including civil rights. Students examine the impact of geographic factors on major events and analyze causes and effects of the Great Depression. 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 the times during which they were created. Students analyze the impact of technological innovations on the American labor movement. Students use critical-thinking skills to explain and apply different methods that historians use to interpret the past, including points of view and historical context.</p>	<p>OPTIONS: Grade Level: SS112 A/B AP GT: SS110 A/B Sheltered: SS115 A/B Grade: 11 Credit: 1.0</p>
<p>United States History AP MHS, NHS, SWHS, SHS, WAIS</p> <p>Advanced Placement, United States History is an open enrollment course which is rigorous and challenging. The AP U.S. History course is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. History. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by introductory college courses. It is expected that all students take the AP U.S. History exam at the end of this course. Since the course covers Pre-Columbian U.S. History to the present, not just post-Reconstruction, students may not transfer between AP and TEKS-based U.S. History after the first formal grading period. If this change is deemed necessary, principal approval is required and independent work on the part of the student may be required to cover TEKS not taught in AP U.S. History while the student was in AP. A full year of either course fulfills the required U.S. History credit. However, a half credit of AP and a half credit of TEKS-based U.S. History will not be sufficient for graduation. All U.S. History students, regardless of level, must pass the End-of-Course exam from the state of Texas to graduate. Time management, reading comprehension, critical thinking, note taking, presenting reasons and evidence, and the ability to write in an essay format are skills needed for success.</p> <p>http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/index.html</p>	<p>OPTIONS: AP: SS119 A/B GT: SS110 A/B Dual Credit: SS116 A/B Grade: 11 Credit: 1.0</p>

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<p>United States Government AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>In 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. 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 democratic society, and analyze the rights guaranteed by the U.S. Constitution. Students examine the relationship between governmental policies and the culture of the United States.</p>	<p>OPTIONS: Grade Level: SST212 AP GT: SS210 Grade: 12 Credit: 0.5</p>
<p>United States Government and Politics AP MHS, NHS, SWHS, SHS, WAIS</p> <p>AP U.S. Government and Politics is a one semester course designed to give students an analytical perspective on government and politics in the United States. This course includes both the study of concepts needed to interpret politics in the United States and the analysis of specific examples. The United States government curriculum includes an intensive study of the formal and informal structures of government coupled with a focus on policy-making and implementation. This course is structured at the freshman college level and students are expected to perform at this level in a consistent manner. This course may substitute for the government requirement. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2259.html</p>	<p>OPTIONS: AP: SST219 AP GT: SST210 Grade: 12 Credit: 0.5</p>
<p>Economics, with Emphasis on the Free Enterprise System and its Benefits AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>Economics, with Emphasis on the Free Enterprise system and its Benefits presents basic principles of economics to guide students toward responsible economic citizenship and decision making. The focus is on the basic principles concerning production, consumption, and distribution of goods and services in the United States and a comparison with those in other countries around the world. Students examine the rights and responsibilities of consumers and businesses. Students analyze the interaction of supply, demand, and price and study the role of financial institutions in a free enterprise system. Types of business ownership and market structures are discussed, as are basic concepts of consumer economics and personal financial literacy. The impact of a variety of factors including geography, the federal government, economic ideas from important philosophers and historic documents, societal values, and scientific discoveries and technological innovations on the national economy and economic policy is an integral part of the course. This is a one semester course.</p>	<p>OPTIONS: Grade Level: SST222 Grade: 12 Credit: 0.5</p>
<p>Economics AP MHS, NHS, SWHS, SHS, WAIS</p> <p>The aim of AP Economics is to provide the student with a learning experience equivalent to that obtained in a typical college introductory macroeconomics course. AP Macroeconomics explores consumer and government decisions and how they affect the economy as a whole. While the course is mainly macro, important micro issues such as the theory of the firm and market supply and demand are introduced in the course. This is a one semester course and can be substituted for the economics requirement. (Prepares students for the AP Exam in Macro Economics) http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2120.html</p>	<p>OPTIONS: AP: SST229 AP GT: SST220 Grade: 12 Credit: 0.5</p>

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<p>Introduction to Psychology AOC, MHS, NHS, SWHS, SHS Elective course designed for students to gain insight into their own behavior and well as relationships with others through the scientific study of human behavior and mental processes. Content areas covered are methodologies, socio-cultural influences, developmental processes, cognitive and biophysical perspectives. (semester course).</p>	<p>SST312 Grades: 10, 11, 12 Credit: 0.5</p>
<p>Psychology AP MHS, NHS, SWHS, SHS, WAIS The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major sub fields within psychology. They also learn about the methods psychologists use in their science and practice. This course is equivalent to an introductory college course in psychology and students taking this course are successfully prepared to take and pass the Advanced Placement Exam in Psychology at the end of the course. Successful completion of this exam allows most students to earn college credit for Introductory Psychology at colleges and universities across the nation. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2265.html</p>	<p>SST319 Prerequisite: Suggested A/B grade point in core courses & strong reading skills highly suggested. See counselor for details. Grades: 11, 12 Credit: 0.5 (1.0 on some campuses)</p>

DUAL CREDIT ELECTIVES

These courses are arranged through counselor.

<p>United States History to 1877 Early College Program/Dual Credit AOC, MHS, NHS, SWHS, SHS, WAIS The American nation from the English colonization to the close of the Civil War through Reconstruction. (Semester one). United States History to 1877 <i>combined only with</i> United States History after 1877 fulfill the required U.S. History credit for graduation. All U.S. History students, regardless of level, must pass the End-of-Course exam from the state of Texas to graduate.</p>	<p>SS12D A Dual Credit Prerequisite: Meet DC/ECP eligibility criteria Credit: 0.5</p>
<p>United States History after 1877 Early College Program/Dual Credit AOC, MHS, NHS, SWHS, SHS, WAIS The American nation from the end of the Reconstruction Era to the present. (Semester two). United States History to 1877 <i>combined only with</i> United States History after 1877 fulfill the required U.S. History credit for graduation. All U.S. History students, regardless of level, must pass the End-of-Course exam from the state of Texas to graduate.</p>	<p>SS12D B Dual Credit Prerequisite: Meet DC/ECP eligibility criteria Credit: 0.5</p>
<p>Government Early College Program/Dual Credit AOC, MHS, NHS, SWHS, SHS, WAIS A study of the theories of American democracy and other ideologies, United States and Texas constitutions, federalism, state and local government, political economy, political socialization and public opinion, the media, interest groups, political parties, and elections.</p>	<p>SS217D Dual Credit Prerequisite: Completion of U.S. History and meet DC/ECP eligibility criteria Credit: 0.5</p>

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<p>Government 2 Early College Program/Dual Credit AOC, MHS, NHS, SWHS, SHS, WAIS Examines the three branches of government at both state and national levels and analyzes the role of each in the making of public policy. Selected topics on domestic and foreign policy are included.</p>	<p>Dual Credit Prerequisite: Completion of Government (POLS 2303) Credit: 0.5 Type: State elective</p>
<p>Economics Early College Program/Dual Credit AOC, MHS, NHS, SWHS, SHS, WAIS Macroeconomics examines the fundamentals of the American economy as it relates to social welfare. Emphasis is on basic concepts and theories as they affect domestic and international markets. This course integrates behavioral social sciences to present solutions to real world problems. Macroeconomics includes measurements of GDP, fiscal and monetary policy.</p>	<p>SS227D Dual Credit Prerequisite: Meet DC/ECP eligibility criteria; have 2200 on TAKS Math or passing COMPASS score and <i>high school principal approval</i> Credit: 0.5</p>
<p>Introduction to Sociology Early College Program/Dual Credit AOC, MHS, NHS, SWHS, SHS, WAIS A survey course which focuses on the nature of human groups in American and world societies, their social and cultural adaptations, and the impact which various social processes may have on their social organization and social change.</p>	<p>Dual Credit Prerequisite: Meet DC/ECP eligibility criteria Grades: 11, 12 Credit: 0.5</p>
<p>Introduction to Psychology Early College Program/Dual Credit AOC, MHS, NHS, SWHS, SHS, WAIS A survey of the basic principles underlying human behavior and mental processes. Emphasis will be placed in major areas of study in the field of psychology, such as motivation, development, thought processes, and personality.</p>	<p>SST313 Dual Credit Prerequisite: Meet DC/ECP eligibility criteria Grades: 11, 12 Credit: 0.5</p>

Social Studies Electives

<p>Sociology AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>In Sociology, a one semester elective course, students study the dynamics and models of individual and group relationships. Students study topics such as the history and systems of sociology, cultural and social norms, social institutions, and mass communication. The course deals with cultural changes and cultural development.</p>	<p>SST322 Grades: 10, 11, 12 Credit: 0.5</p>
<p>European History Advanced Placement MHS, SWHS, SHS</p> <p>The study of European history since 1450 introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. This elective course is designed to prepare students for the AP European History examination. The course is a survey of European history from the high Renaissance to the recent past. It emphasizes chronological scope as well as intellectual, political, social, economic, and cultural trends. In addition to providing a basic narrative of events and movements, the goals of AP European History are to develop (a) an understanding of some of the principal themes in modern European history, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing. College level reading and writing assignments are required.</p> <p>http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2122.html</p>	<p>Grades: 11, 12 Credit: 1.0</p>
<p>IB History of the Americas SL/HL WAIS</p> <p>A two-year program focusing on the 19th and 20th century history of both North and South American countries. The first year will focus on independence movements, formation, and growth of new countries in the Americas. Students will examine political, economic, social, and diplomatic factors that impact relations among countries in the Americas. The second year of History of the Americas will focus on events of the 20th century. Students will continue studying about the Americas. Study of the second region, Europe, will be added. Topics of study include World War I, the Interwar Years, and World War II. Students will compare the rule of single party leaders in both the Americas and in Europe. They will study both sides of the Cold War, led by the United States and the Soviet Union, and the effect of the Cold War on the Americas and Europe.</p>	<p>OPTIONS: SL: SS18I A/B HL: SS19I A/B Credit: 1.0 each</p>

Social Studies Special Topics

<p>World War II and the Holocaust SWHS</p> <p>During the semester dedicated to World War II, the students will gain an intense insight to World War II, the most destructive war in the history of the world, by examining the political, economic, and military competition that erupted. During the semester dedicated to studying the Holocaust, the students will gain an understanding of the rise of the Nazi Power as they began a campaign of violence against Jews and other groups not loyal to the Nazi government. Learning about the events of this crucial period in our nation's history will help students understand the events occurring in our nation and around the world today.</p>	<p>SS143 A/B Credit: 1.0</p>
<p>Global Issues SHS</p> <p>Students conduct inquiry into the social, political, economic, and environmental impact of emerging issues.</p>	<p>Prerequisite: U.S. History Credit: 1.0</p>
<p>Latin American Studies SWHS</p> <p>Explores the history of Latin America from Columbus to today, covering the colonial period and national period.</p>	<p>Grades: recommended for upper classmen Credit: 1.0</p>
<p>Model UN SHS</p> <p>This course integrates the understanding of global issues while developing academic research writing problem solving, and public speaking skills role playing ambassadors debating topics at Model UN conferences.</p>	<p>SS422 A/B Credit: 1.0</p>
<p>History through Film AOC, SWHS, SHS</p> <p>History through Film is an upper level elective for special topics in Social Studies offered to juniors and seniors. This will be a two-semester course for students to express their ideas without the constraints of a traditional classroom environment. Students will observe films through four different eras in world history. They will have the opportunity to apply skills learned in the social sciences to a variety of topics and issues. Students will use critical-thinking skills to locate, organize, analyze, and utilize data collected from a variety of sources. Problem solving and decision making are important elements of the course, as is the communication of information in written, oral, and visual forms.</p>	<p>SS412 A/B Grades: 11, 12 Credit: 1.0</p>

Languages Other Than English (LOTE)

The study of each of these languages begins with instruction in basic skills with emphasis on listening, speaking, reading, writing and the relating of culture to that language. Level II continues with extended emphasis on oral proficiency, reading, writing, increased vocabulary and grammatical structure. Level III offers Pre-AP instruction. Levels IV and V prepare students for the College Board AP exams. For success in any successive foreign language levels, a grade of at least an 80 is strongly suggested before continuing to the next level. It is recommended as you begin your language study that you take Level I and follow closely with Level II. All levels are not offered at every high school.

SPANISH (all campuses)
 Spanish I
 Spanish II
 Spanish III, Pre-AP
 Spanish IV Pre-AP, AP, DC
 Spanish V Lit. Pre-AP, AP
 Spanish VI AP Lit
 Spanish for Spanish Speakers I, II

Credit: 1.0 each
Type: Meets foreign language requirement

Note: It is highly recommended that students with prior instruction in Spanish take the Credit by Examination (CBE) test prior to enrolling in a Spanish class.



FRENCH (all campuses)
 French I
 French II
 French III Pre-AP
 French IV Pre-AP, AP
 French V Lit. Pre-AP, AP
 French VI AP Lit at SHS

Credit: 1.0 each
Type: Meets foreign language requirement



GERMAN (all campuses)
 German I
 German II
 German III Pre-AP
 German IV Pre-AP, AP, DC
 German V Lit. AP
 German VI AP Lit

Credit: 1.0 each
Type: Meets foreign language requirement



LATIN (MHS, NHS)
 Latin I
 Latin II
 Latin III Pre-AP

Credit: 1.0 each
Type: Meets foreign language requirement



ITALIAN (WAIS)
 Italian I
 Italian II
 Italian III Pre-AP

Credit: 1.0 each
Type: Meets foreign language requirement



JAPANESE (Saturday at WAIS)
 Japanese I
 Japanese II, ECP/DC
 Japanese III Pre-AP, ECP/DC
 Japanese IV AP

Credit: 1.0 each
Type: Meets foreign language requirement



AMERICAN SIGN LANGUAGE
 I, II, III (all campuses; summer school)

Credit: 1.0 each
Type: Meets foreign language requirement



INTERNATIONAL BACCALAUREATE PROGRAMME (WAIS)
 French IB
 German IB
 Italian IB
 Spanish IB

Prerequisite: Completion of Levels I-III of designated language and approved for IB Programme
Credit: 1.0 each
Type: Elective
Grade: 11,12

Credit by Examination (CBE)

If you are fluent in a language other than English, you may earn credit by taking an exam (CBE). The exam tests skills in reading, writing, speaking, and understanding the spoken word. You may be able to earn up to four credits. Spanish speakers with oral skills only may earn the right to take Spanish for Native Speakers which awards credit for Spanish I and II in one year. Credit by Examination tests will be offered four times each year. To take CBE for a foreign language not taught in the District, prior approval from the Office of Accountability & Research is required. **Listen for announcements and take advantage of this opportunity. Not all tests are given each testing session.**

Languages Other Than English (LOTE)

<p>American Sign Language I, II, III</p> <p>The course offers basic instruction in understanding and producing learned signs, phrases, and sentences and recognizing the importance of communication and how it relates to the American Deaf culture.</p>	<p>MHS, NHS, SWHS, SHS, WAIS, Summer School</p>	<p>I: FL012 A/B II: FL022 A/B III: FL032 A/B Credit: 1.0 Type: Elective; meets foreign language requirement</p>
<p>French I</p> <p>The course offers basic instruction in listening, speaking, reading, writing and culture, with emphasis on active use of these language skills.</p>	<p>MHS, NHS, SWHS, SHS, WAIS</p>	<p>FL212 A/B Credit: 1.0 Type: Elective; meets foreign language requirement</p>
<p>French II</p> <p>The second level expands beginning curriculum with an emphasis on oral proficiency, reading, writing and increased vocabulary, grammatical structures and understanding of culture.</p>	<p>MHS, NHS, SWHS, SHS, WAIS</p>	<p>FL222 A/B Prerequisite: French I Credit: 1.0 Type: Elective; meets foreign language requirement</p>
<p>French III Pre-AP</p> <p>These classes allow students to develop upper level skills in reading, writing, listening and speaking that prepare them for the French AP test.</p>	<p>MHS, NHS, SWHS, SHS, WAIS</p>	<p>FL231 A/B Prerequisite: French II Credit: 1.0 Type: Elective; meets foreign language requirement</p>
<p>French IV Pre-AP or AP Language & Culture</p> <p>This class refines and enhances skills for the AP French Language and Culture Exam given at the end of the year. Passing this test enables students to earn high school and college credits accepted by most universities. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2152.html</p>	<p>MHS, NHS, SWHS, SHS, WAIS</p>	<p>Pre-AP: FL241 A/B (MHS) AP: FL249 A/B Prerequisite: French III Credit: 1.0 Type: Elective; meets foreign language requirement</p>
<p>French V</p> <p>The class continues extensive reading of authentic literature and analytical writing.</p>	<p>MHS, SWHS, SHS, WAIS</p>	<p>FL259 A/B Prerequisite: French IV Credit: 1.0 Type: Elective; meets foreign language requirement</p>
<p>French VI</p> <p>The class continues extensive reading of authentic literature and analytical writing.</p>	<p>WAIS</p>	<p>FL269 A/B Prerequisite: French V Credit: 1.0 Type: Elective; meets foreign language requirement</p>
<p>German I</p> <p>The course offers basic instruction in listening, speaking, reading, writing and culture, with emphasis on active use of these language skills.</p>	<p>MHS, SHS, WAIS</p>	<p>FL312 A/B Credit: 1.0 Type: meets foreign language requirement</p>
<p>German II</p> <p>The second level expands beginning curriculum with an emphasis on oral proficiency, reading, writing and increased vocabulary, grammatical structures and understanding of culture.</p>	<p>MHS, SHS, WAIS</p>	<p>FL322 A/B Prerequisite: German I Credit: 1.0 Type: Elective; meets foreign language requirement</p>
<p>German III Pre-AP</p> <p>These classes allow students to develop upper level skills in reading, writing, listening and speaking that prepare them for the German AP test in future courses.</p>	<p>MHS, SHS, WAIS</p>	<p>FL331 A/B Prerequisite: German I Credit: 1.0 Type: Elective; meets foreign language requirement</p>
<p>German IV Pre-AP or AP Language & Culture</p> <p>These classes allow students to develop upper level skills in reading, writing, listening and speaking that prepare them for the German AP test. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2257.html</p>	<p>MHS, SHS, WAIS</p>	<p>Pre-AP: FL341 A/B (MHS) AP: FL349 A/B Prerequisite: German III Credit: 1.0 Type: Elective; meets foreign language requirement</p>
<p>German V</p> <p>The class continues extensive reading of authentic literature and analytical writing.</p>	<p>MHS</p>	<p>FL359 A/B Prerequisites: Successful completion of German IV</p>

Languages Other Than English (LOTE)

German VI The class continues extensive reading of authentic literature and analytical writing.		FL369 A/B Prerequisites: Successful completion of German V
Italian I Pre-AP The course offers basic instruction in listening, speaking, reading, writing and culture, with emphasis on active use of these language skills.	WAIS	FL512 A/B Credit: 1.0 Type: Elective; meets foreign language requirement
Italian II The second level expands beginning curriculum with an emphasis on oral proficiency, reading, writing and increased vocabulary, grammatical structures and understanding of culture.	WAIS	FL522 A/B Prerequisite: Italian I Credit: 1.0 Type: Elective; meets foreign language requirement
Italian III Pre-AP These classes allow students to develop upper level skills in reading, writing, listening and speaking that prepare them for the Italian AP test in future courses.	WAIS	FL531 A/B Prerequisite: Italian II Credit: 1.0 Type: Elective; meets foreign language requirement

Classes in Japanese are available at WAIS on Saturdays (See counselor for details)

Japanese I The course offers basic instruction in listening, speaking, reading, writing and culture, with emphasis on active use of these language skills. It is approved by the Japanese government.	Saturday classes available at WAIS	FL612 A/B Credit: 1.0 each Type: meets foreign language requirement
Japanese II The second level expands beginning curriculum with an emphasis on oral proficiency, reading, writing and increased vocabulary, grammatical structures and understanding of culture.	Saturday classes available at WAIS	FL622 A/B Prerequisite: Japanese I Credit: 1.0 Type: Elective; meets foreign language requirement
Japanese III These classes allow pre-approved students to develop upper level skills in reading, writing, listening and speaking that prepare them for advanced levels of Japanese.	Saturday classes available at WAIS	FL632 A/B Prerequisite: Japanese II Credit: 1.0 Type: Elective; meets foreign language requirement
Japanese IV This class refines and enhances upper level skills that prepares students to perform at advanced levels with in-depth understanding of culture.	Saturday classes available at WAIS	FL642 A/B Prerequisite: Japanese III Credit: 1.0 Type: Elective; meets foreign language requirement
Latin I The course offers basic instruction in reading, writing and culture, with emphasis on active use of these language skills.	MHS, NHS	FL412 A/B Credit: 1.0 each Type: meets foreign language requirement
Latin II The second level expands beginning curriculum with an emphasis on reading, writing and increased vocabulary, grammatical structures and understanding of culture.	MHS, NHS	FL422 A/B Prerequisite: Latin I Credit: 1.0 Type: Elective; meets foreign language requirement
Latin III Pre-AP These classes allow students to develop upper level skills in reading, writing, and the study of Roman civilization.	MHS, NHS	FL431 A/B Prerequisite: Latin II Credit: 1.0 Type: Elective; meets foreign language requirement

Languages Other Than English (LOTE)

It is highly recommended that students with oral skills in Spanish take the Credit by Exam (CBE) test prior to enrolling in a Spanish class.

<p>Spanish I AOC, MHS, NHS, SWHS, SHS, WAIS The course offers basic instruction in listening, speaking, reading, writing and culture, with emphasis on active use of these language skills.</p>	<p>FL112 A/B Credit: 1.0 each Type: meets foreign language requirement</p>
<p>Spanish II AOC, MHS, NHS, SWHS, SHS, WAIS The second level expands beginning curriculum with an emphasis on oral proficiency, reading, writing and increased vocabulary, grammatical structures and understanding of culture.</p>	<p>FL122 A/B Prerequisite: Spanish I Credit: 1.0 Type: Elective; meets foreign language requirement</p>
<p>Spanish III Pre-AP MHS, NHS, SWHS, SHS, WAIS These classes allow pre-approved students to develop upper level skills in reading, writing, listening and speaking that prepare them for the Spanish AP test.</p>	<p>FL131 A/B Prerequisite: Spanish II Credit: 1.0 Type: Elective; meets foreign language requirement</p>
<p>Spanish III MHS, SHS Further development of listening comprehension, speaking, reading, and writing skills, and cultural awareness. More advanced grammar.</p>	<p>FL132 A/B Prerequisite: Spanish II Credit: 1.0 Type: Elective; meets foreign language requirement</p>
<p>Spanish IV Pre-AP and AP Language & Culture MHS, NHS, SWHS, SHS, WAIS This class refines and enhances skills for the AP Spanish Language and Culture Exam given at the end of the year. Passing this test enables students to earn high school and college credits accepted by most universities. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/3499.html</p>	<p>Pre-AP: FL141 A/B AP: FL149 A/B Prerequisite: Spanish III Credit: 1.0 Type: Elective; meets foreign language requirement</p>
<p>Spanish V Pre-AP Literature SWHS, SHS, WAIS The class continues extensive reading of authentic literature and analytical writing.</p>	<p>FL151 A/B Credit: 1.0 Type: Elective; meets foreign language requirement</p>
<p>Spanish V or VI AP Literature MHS, SWHS, SHS, WAIS The class continues extensive reading of authentic literature and analytical writing in preparation for the AP Literature exam. This also prepares them for the AP Language test. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/3500.html</p>	<p>V: FL159 A/B VI: FL169 A/B Prerequisite: Spanish IV Credit: 1.0 Type: Elective; meets foreign language requirement</p>
<p>Spanish for Spanish Speakers NHS, SWHS, SHS This course is designed for Native Speakers of Spanish who can already listen, read, write and speak the language. Their basic skills will be strengthened with an emphasis on vocabulary, reading and writing at more advanced levels. Students receive two high school credits for the one-year class.</p>	<p>I: FL172 II: FL182</p>

Languages Other Than English (LOTE)

<p>IB French Standard Level (SL) & Higher Level (HL) WAIS</p> <p>The IB Second Language courses Standard Level offer the student an enriched study of language, literature and culture with relevance to international societies. Students review all language concepts and study representative writers in the original language independently and in groups. Students are immersed in a culturally rich environment in which they actively participate. They are assessed on effective and accurate communication. Tasks of the advanced language learner include use of the language within and outside of school, information and communication via technology, involvement in activities for personal enrichment and career development—all working to produce a lifelong learner. To achieve an appreciation and understanding of cultures, there will be interactive endeavors and a culturally rich environment where their ability to communicate effectively and accurately play an essential role. Students will be exposed to topics through thematic units and will demonstrate understanding and competence by presenting individual and group projects. Students not meeting the prerequisites for the IB language course should consult their counselor or the IB Coordinator about the ab initio option for IB language.</p>	<p>OPTIONS: IV (SL): FL24I A/B V (HL): FL25I A/B V (SL): FL26I A/B VI (HL): FL27I A/B Credit: 1.0 Type: Elective; meets foreign language requirement</p>
<p>IB German Standard Level (SL) & Higher Level (HL) WAIS</p> <p>The IB Second Language courses Standard Level offer the student an enriched study of language, literature and culture with relevance to international societies. Students review all language concepts and study representative writers in the original language independently and in groups. Students are immersed in a culturally rich environment in which they actively participate. They are assessed on effective and accurate communication. Tasks of the advanced language learner include use of the language within and outside of school, information and communication via technology, involvement in activities for personal enrichment and career development—all working to produce a lifelong learner. Students not meeting the prerequisites for the IB language course should consult their counselor or the IB Coordinator about the ab initio option for IB language.</p>	<p>OPTIONS: IV (SL): FL34I A/B V (HL): FL35I A/B V (SL): FL37I A/B VI (HL): FL39I A/B Credit: 1.0 Type: Elective; meets foreign language requirement</p>
<p>IB Italian Standard Level (SL) & Higher Level (HL) WAIS</p> <p>This class refines and enhances skills for the IB Italian Exam given at the end of the year. Passing this test enables students to earn high school and college credits accepted by most universities. Students not meeting the prerequisites for the IB language course should consult their counselor or the IB Coordinator about the ab initio option for IB language.</p>	<p>OPTIONS: VI (HL): FL59I A/B Credit: 1.0 Type: Elective; meets foreign language requirement</p>
<p>IB Spanish Standard Level (SL) & Higher Level (HL) WAIS</p> <p>The IB Spanish Program offers the student an enriched study of language, literature, and culture with relevance to international societies. Students will be immersed in the four basic skills of reading, writing, speaking and listening to provide a more enriched study of language, literature and culture. The focus will emphasize a culturally rich environment with active participation in and out of the traditional school setting. Resources include technology, activities for personal enrichment career development, and other sources dealing with international societies. Students not meeting the prerequisites for the IB language course should consult their counselor or the IB Coordinator about the ab initio option for IB language.</p>	<p>OPTIONS: IV (SL): FL14I A/B V (HL): FL15I A/B V (SL): FL15S A/B VI (HL): FL16H A/B VII (SL): FL17S A/B VIII (HL): FL18H A/B Credit: 1.0 Type: Elective; meets foreign language requirement</p>

Fine Arts

<p>Art I AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>This is the prerequisite and foundation course for all studio courses in art. The course explores the elements and principles of design through painting, drawing, printmaking, ceramics, sculpture, and electronic media. Students explore art works of diverse styles, cultures and historic periods.</p>	<p>FA112 A/B Credit: 1.0 Type: Meets fine arts requirement Fee: \$10</p>
<p>Advanced Art I SWHS, SHS</p> <p>This course has all of the same elements as Art I, but is designed as a more rigorous course for students that have a high interest and skill level in art. Placement in this course is based on portfolio review by the high school art department. This course is designed for students with a desire to take advanced art classes.</p>	<p>FA116 A/B Prerequisite: Teacher Approval Credit: 1.0 Type: Meets fine arts requirement Fee: \$10</p>
<p>Art and Media Communication I SWHS</p> <p>This course combines rigorous and relevant experiential study of modern, post-modern, and contemporary visual art and design with student learning in media literacy and technology applications. Students learn how to bridge traditional hand skills with current technology applications to create new media such as animations, digital images, multimedia presentations, digital videos, websites, and interactive or site-based installations and performances.</p>	<p>FA129 A/B Credit: 1.0 Type: Meets fine arts requirement</p>
<p>Art II Drawing I AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>This advanced art course provides students who have successfully completed Art I and opportunity to further develop concepts and processes specific to drawing. Students will explore a variety of media, artists and styles in this area. Students will maintain a portfolio and a sketchbook.</p>	<p>FA123 A/B Prerequisite: Art I or Teacher Approval Credit: 1.0 Type: Meets fine arts requirement Fee: \$20</p>
<p>Art II Painting I AOC, NHS, SWHS, WAIS</p> <p>This advanced art course provides students who have successfully completed Art I and opportunity to further develop concepts and processes specific to painting. Students will explore a variety of media, artists and styles in this area. Students will maintain a portfolio and a sketchbook.</p>	<p>FA124 A/B Prerequisite: Art I or Teacher Approval Credit: 1.0 Type: Meets fine arts requirement Fee: \$20</p>
<p>Art II Drawing/Painting I Pre-AP SWHS, SHS</p> <p>Students will develop higher intellectual engagement, independent learning skills and rigor to produce work that will lead to a Portfolio for college. Analytical and communications skills are mastered with greater responsibility for his/her art progress and exposure to artist, styles of art, and art history.</p>	<p>FA121 A/B Prerequisite: Art I or Pre-AP Art I (Middle School) Credit: 1.0 Type: Meets fine arts requirement</p>
<p>Art II Sculpture I AOC, MHS, NHS, SWHS, SHS</p> <p>This advanced art course provides students who have successfully completed Art I and opportunity to further develop concepts and processes specific to sculpture. Students will explore a variety of media, artists and styles in this area. Students will maintain a portfolio in digital form and other documentation of work.</p>	<p>FA125 A/B Prerequisite: Art I or Teacher Approval Credit: 1.0 Type: Meets fine arts requirement Fee: \$20</p>
<p>Art II Photography I AOC, MHS, SWHS, SHS</p> <p>Students will develop skills in photography as they explore basics of design, composition and lighting. Students will be required to maintain a portfolio. Class information distributed at the beginning of the course.</p>	<p>FA127 A/B Prerequisite: Teacher Approval Credit: 1.0 Type: Meets fine arts requirement Fee: \$80 Regular (a digital SLR camera is required); \$30 Digital</p>

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<p>Art II Digital Art and Media I SWHS</p> <p>This course is an introduction to digital imaging. Students will create original graphics using Adobe Creative Suite software application collection. Mastering the principles of design presentation and compositional development is central to instruction. Students will complete an electronic portfolio of digital graphics and animations that can be used for career choices or job applications.</p>	<p>FA128 A/B Prerequisite: Art I or Teacher Approval Credit: 1.0 Type: Meets fine arts requirement Fee requirement Grades 9-12</p>
<p>Art III Drawing II AOC, MHS, NHS, SWHS, SHS, WAIS</p> <p>This third-year course provides an in-depth study of the concepts, techniques, history and self expression of drawing on an advanced level. Completion of a cohesive portfolio is required.</p>	<p>FA133 A/B Prerequisite: 2 Art Credits or Teacher Approval Fee: \$20</p>
<p>Art III Painting II AOC,-MHS, NHS</p> <p>This third-year course provides an in-depth study of the concepts, techniques, history and self expression of painting on an advanced level. Completion of a cohesive portfolio is required.</p>	<p>FA134 A/B Prerequisite: 2 Art Credits or Teacher Approval Fee: \$20</p>
<p>Art III Sculpture II AOC, NHS, SWHS, SHS</p> <p>This third-year course provides an in-depth study of the concepts, techniques, history and self expression of sculpture on an advanced level. Completion of a cohesive portfolio is required. Students will maintain a portfolio in digital form and other documentation of work.</p>	<p>FA135 A/B Prerequisite: 2 Art Credits or Teacher Approval Fee: \$20</p>
<p>Art III Photography II AOC, MHS, SWHS, SHS</p> <p>This third-year course provides an in-depth study of the concepts, techniques, history and self expression of photography on an advanced level. Completion of a cohesive portfolio is required.</p>	<p>FA137 A/B Prerequisite: 2 Art Credits or Teacher Approval Credit: 1.0 Type: Meets fine arts requirement Grades: 11-12 Fee: \$80 Regular (a film camera is required); \$30 Digital</p>
<p>Art II Digital Art and Media II SWHS</p> <p>This course will expand student's knowledge of digital imaging and graphics. Students will explore and master various techniques and develop a series of artworks. Students will complete an electronic portfolio of digital graphics and animations that can be used for career choices or job applications.</p>	<p>FA Prerequisite: Art I or Teacher Approval Credit: 1.0 Type: Meets fine arts requirement Fee requirement Grades 9-12</p>
<p>Art IV Drawing III MHS, NHS, SWHS, SHS</p> <p>The experiences given and skills developed in the first three levels of art prepare students for in-depth study of special problems based on drawing. Students will produce a body of artwork and develop evaluative criteria for selecting artworks to include in a required portfolio.</p>	<p>FA143 A/B Prerequisite: 3 Art Credits or Teacher Approval Fee: \$30</p>
<p>Art IV Painting III MHS, NHS, SWHS</p> <p>The experiences given and skills developed in the first three levels of art prepare students for in-depth study of special problems based on painting. Students will produce a body of artwork and develop evaluative criteria for selecting artworks to include in a required portfolio.</p>	<p>FA142 A/B Prerequisite: 3 Art Credits or Teacher Approval Fee: \$30</p>

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<p>Art IV Sculpture III NHS, SWHS, SHS</p> <p>The experiences given and skills developed in the first three levels of art prepare students for in-depth study of special problems based on sculpture. Students will produce a body of artwork and develop evaluative criteria for selecting artworks to include in a required portfolio. Students will maintain a portfolio in digital form and other documentation of work.</p>	<p>FA145 A/B Prerequisite: 3 Art Credits or Teacher Approval Fee: \$30</p>
<p>Art IV Photography III MHS, SWHS, SHS</p> <p>The experiences given and skills developed in the first three levels of art prepare students for in-depth study of special problems based on photography. Students will produce a body of artwork and develop evaluative criteria for selecting artworks to include in a required portfolio.</p>	<p>FA147 A/B Prerequisite: 3 Art Credits or Teacher Approval Credit: 1.0 Type: Meets fine arts requirement Grades: 11-12 Fee: \$80 Regular (a film camera is required); \$30 Digital</p>
<p>AP Studio Drawing Portfolio MHS, NHS, SWHS, SHS</p> <p>This course enables highly motivated advanced art students to do college-level work in drawing. It is designed to address a very broad interpretation of drawing issues which involves purposeful decision-making about how to use the elements and principles of design in an integrative manner. Students must demonstrate mastery by developing an extensive portfolio to be submitted to the college board. Specific course requirements and expectations may be obtained from the art department. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/7881.html</p>	<p>FA140 A/B Prerequisite: Art I & Art II and Teacher Approval Credit: 1.0 Fee: \$50</p>
<p>AP Studio 2-D Design Portfolio MHS, SWHS, SHS</p> <p>This course enables highly motivated advanced art students to do college-level work using a variety of two dimensional methods. The course is designed to address a very broad interpretation of 2-D issues which will include purposeful decision-making about how to use the elements and principles of design in an integrative manner. Students must demonstrate mastery by developing an extensive portfolio to be submitted to the College Board. Specific course requirements and expectations may be obtained from the art department. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/3987.html</p>	<p>FA159 A/B Prerequisite: Art I & Art II and Teacher Approval Credit: 1.0 Fee: \$50</p>
<p>AP Studio 3-D Design Portfolio SWHS, SHS</p> <p>This course enables highly motivated advanced art students to do college-level work using a variety of three dimensional methods. The course is designed to address a very broad interpretation of 3-D issues which will include purposeful decision-making about how to use the elements and principles of design in an integrative manner. Students must demonstrate mastery by developing an extensive portfolio to be submitted to the College Board. Specific course requirements and expectations may be obtained from the art department. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/7880.html</p>	<p>FA169 A/B Prerequisite: Art I & Art II and Teacher Approval Credit: 1.0 Fee: \$50</p>
<p>AP Art History AOC, MHS, NHS, SWHS, SHS</p> <p>This rigorous course will examine concepts of creativity, originality, self-expression, imagination, style, and artistic tastes. Students will identify the elements and principles of design in the study of civilizations throughout man's history. Preparation for the College Board examination is integrated throughout the course. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2177.html</p>	<p>FA139 A/B Credit: 1.0 Grades: 11-12</p>

Fine Arts

<p>Choral Music I-IV (full year) MHS, NHS, SWHS, SHS, WAIS</p> <p>The choral music course is designed to develop and refine music reading skills and to encourage artistic expression through choral singing. Rehearsals focus on choral techniques through proper vocal production. Theory and sight-reading techniques are also emphasized with continued development of the knowledge and skills in musicianship and performance. In order for students to gain an appreciation for different vocal styles, composers, forms, periods and cultures, students will sing literature that ranges from the Renaissance to popular. Placement into the choirs is based on ability and is determined by various performance criteria that is developed by the choral staff. This may include an audition. A student with no prior choir experience may enroll in the program and will be placed in the appropriate group by the director. Students must participate in all rehearsals, performances, and contests.</p>	<p>Options: Choral Music I: Prerequisite: None</p> <p>Choral Music II: Prerequisite: Choral Music I & Audition</p> <p>Choral Music III: Prerequisite: Choral Music I, II & Audition</p> <p>Choral Music IV: Prerequisite: Choral Music I, II, III & Audition</p> <p>Credit: 1.0 Grades: 9-12</p>
<p>Music Theory AP (full year) MHS, SHS</p> <p>The Advanced Placement Music Theory course is an intensive, fast-paced curriculum designed to equal the freshman year of music theory at the University of Houston. The purpose of the course is to prepare the students for success on the AP Music Theory Exam and further success in college-level music studies. http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/2261.html</p>	<p>PA512 A/B Prerequisite: Music Director Approval Credit: 1.0 each Type: Meets fine arts requirement Grades: 9-12</p>
<p>Musical Theatre I SWHS</p> <p>Students will be exposed to a wide range of on-stage performance disciplines, including acting performance, vocal performance, and dance performance.</p>	<p>FA632 A/B Prerequisite: Theater I or Choir I Credit: 1.0 Type: Meets fine arts requirement</p>
<p>Theater Arts I MHS, NHS, SWHS, SHS, WAIS</p> <p>This is a course in the fundamentals of theater production. It is designed to acquaint the student with pantomime, improvisation, and the rudiments of acting. The course is performance based and requires classroom or onstage performance as well as memorization.</p>	<p>PA611 A/B</p>
<p>Theater Arts II MHS, NHS, SWHS, SHS, WAIS</p> <p>This course is designed for the student who shows exceptional ability in drama and who wishes to take advanced drama courses. The student will communicate artistically and factually as a writer, actor, manager and critic. Students will work both individually and in teams to solve artistic problems.</p>	<p>PA612 A/B</p>
<p>Theater Arts III-IV MHS, NHS, SWHS, SHS</p> <p>Students will develop skills to design, produce, and perform a play for theater. Students will read plays to discover the literal and metaphoric meanings of a work. Students will develop criteria to evaluate their work and the work of their classmates, as well as the professional artist.</p>	<p>III: PA613 A/B IV: PA614 A/B</p>
<p>Technical Theater I, II MHS, NHS, SWHS, SHS, WAIS</p> <p>This course includes development and application of skills and basic theories of design in color, drawing, lighting, costuming, props, and interpretation in stage design. Teacher approval required.</p>	<p>I: PA621 A/B II: PA622 A/B Credit: 1.0 each Type: Meets fine arts requirement Grades: 9-12</p>

Fine Arts

<p>Technical Theater III-IV MHS, NHS, SWHS, SHS</p> <p>This course includes the development and application of problem solving within the context of technical theatre. Students will work to discover and explore the creative application of skills needed to enhance theatrical productions in their school as they study theories of design, color, lighting, scenery construction, costuming, properties and stage management. Students will also explore theatre history and the development of current theatre practices.</p>	<p>I: PA623 A/B II: PA624 A/B</p>
<p>Varsity/Advanced Theater I MHS, SWHS, SHS</p> <p>This is course in the fundamentals of theater production. It is designed to acquaint the student with pantomime, improvisation, and the rudiments of acting. The course is performance based and requires classroom or onstage performance as well as memorization and after-school participation.</p>	<p>PA631 A/B</p>
<p>Dance I MHS, NHS, SWHS, SHS, WAIS</p> <p>This is dance training for the novice, as well as progressive training for more experienced dancers. Students will learn dance skills and techniques including creative expression, improvisation, and dance appreciation. If the student is wanting to try out to be part of the drill team, the student must sign up for Drill Team I.</p>	<p>PDNC1 A/B</p>
<p>Dance I/Health Fitness-Aerobics for Dance Credit MHS, WAIS</p> <p>This Dance I class is a full-year course which incorporates the Health Fitness aerobics TEKS. At the end of the year, one credit is awarded for Dance I and one-half credit is awarded for Health Fitness.</p>	<p>PDNC1 A/B PDAN1 A Credit: 1.0 fine arts credit; .5 HF substitution credit (for drill team) Type: May meet fine arts and elective requirements Pre-drill and drill are allowable substitutions for Health Fitness credit one time only.</p>
<p>Dance II, III, IV MHS, NHS, SWHS, SHS, WAIS</p> <p>Instructional expectations of the high school dance program include development of dance techniques learned in Dance I including creative expression, improvisation, and dance appreciation. Qualities of movement are also explored including swinging, percussion, suspension, collapsing, and vibrancy. Dance techniques explored may include ballet, modern, jazz, tap, and folk. As students advance from Dance II to IV more advanced techniques and skills are acquired. Placement of students in Dance II-IV is determined by various criteria including a tryout. Drill team receives .5 HF/PE substitution credit for fall semester (maximum 1.0 credit from 9th - 12th grade).</p>	<p>PDNC2 A/B PDNC3 A/B PDNC4 A/B</p>
<p>IB Theater Standard Level (SL) & Higher Level (HL) WAIS</p> <p>The IB Theatre Arts Programme focuses on exposing students to a diverse array of plays, playwrights, and theatre experiences from across the globe. Students will engage in individual, group, and whole cast productions in the performance component of the course. IB Theatre Arts students actively engage in the research process as they both perform and critique the work of others. A portfolio is maintained that will record performance experiences as well as research that encourages students to investigate international theatre productions. This is a two-year course.</p>	<p>Options: SL: PA62I A/B HL: PA63I A/B Prerequisite: Theater I, II Credit: 2.0</p>

Fine Arts

<p>IB Music Standard Level & Higher Level WAIS</p> <p>The IB Music Programme teaches the basics of music and opens the student to a global understanding of music. The art of music demands that the educated musician be able to recognize and articulate musical elements realized in diverse areas of music making. Students will develop perceptual skills through a variety of musical experiences, both individual and ensembles, where they will learn to recognize, speculate, analyze, and identify music. IB Music students will engage in a performance component of the curriculum, as well as composition and musical investigation. This is a two-year course.</p>	<p>Options: SL: PA42I A/B HL: PA43I A/B Credit: 2.0 Grades: 11-12</p>
<p>IB Studio Art WAIS</p> <p>IB Studio Art students work independently to develop and acknowledge their own personal creative path. Students are required to maintain a Research Workbook (RWB) with several weekly entries. The RWB contains four aspects of the student's work: research personal drawing; interpretive writing; and references to work that influence the student. The work completed in the RWB serves as a planning stage for the IB Studio Art student's studio work. Studio projects account for 70% of the IB student's grade. Students are required to complete a minimum of one major studio work each six weeks. This is a two-year course.</p>	<p>Prerequisite: Art I, II & approved for the IB Programme Credit: 2.0 Grades: 11-12</p>
<p>Band I-IV (full year) MHS, NHS, SWHS, SHS</p> <p>Students will learn musicianship, instrumental technique, critical listening, basic music theory, cultural growth, rehearsal and concert etiquette, creative self-expression, responsible citizenship, problem solving, effective communication, and production of quality performances. The band is divided into marching season and concert season. During marching season, students learn marching fundamentals, chart reading, how to play and march simultaneously, spatial awareness, kinesthetic awareness and movement memory. A variety of movement styles are performed. Physical conditioning is emphasized. Students should be in good physical shape to participate. Concert season provides students an opportunity to continue musical growth and experience music literature. Individual, small, and large ensemble concepts and skills are emphasized. Two or more levels of band are offered at each campus. Students are placed in each level according to performance criteria, including an audition, by the director. Students may also participate in a series of auditions related to the all-state process as well as solo and ensemble contests.</p>	<p>Credit: 1.0 Type: meets fine arts credit; meets .5 HF/PE substitution if taken in the fall semester</p>
<p>Jazz Band I-IV SWHS, SHS</p> <p>The jazz band class is designed to develop listening (ear-training) and improvisational skills as well as teach music theory. Emphasis is placed on small group performance. Students will explore each jazz style by analyzing that style's musical elements, listening to recordings of each style, and performing each style in a small ensemble. Pianists, guitarists, and bassists may be in the jazz band with prior approval of the director. All other students must also be enrolled in a band class. Performances and after-school rehearsals are required.</p>	<p>Credit: 1.0 each Type: meets fine arts requirement Options: Jazz Band (Available at SWHS, SHS) Band Honors I & II (Available at SHS) Instrumental Ensemble (Available at SHS)</p>
<p>Color Guard I-IV MHS, NHS, SWHS, SHS</p> <p>Students will learn movement concepts, exercises and skills while developing an awareness of teamwork, choreography, and performance in various venues.</p>	<p>PA252 A/B Options: Flags/Color Guard II, III, IV Credit: 1.0 Type: meets fine arts credit; meets .5 HF/PE substitution if taken in the fall semester</p>

Fine Arts

String Orchestra I-IV (full year)	MHS, NHS, SWHS, SHS	Options: Philharmonia, Sinfonia Credit: 1.0 each Type: Meets fine arts requirement
<p>Instructional priorities for string orchestra include musicianship, instrumental technique, critical listening, basic music theory, cultural growth, rehearsal and concert etiquette, creative self-expression, responsible citizenship, problem solving, effective communication, and production of quality performances. Orchestra students are given an opportunity to continue musical growth and experience quality music literature. Students may also participate in a series of auditions related to the all-state process as well as solo and ensemble contests. Students must participate in all rehearsals, performances, and contests.</p>		

Technology Applications

<p>Digital Design and Media Production NHS, SWHS, SHS, WAIS</p> <p>Will allow students to demonstrate creative thinking, develop innovative strategies, and use communication tools in order to work effectively with others as well as independently. Students will gather information electronically, which will allow for problem solving and making informed decisions regarding media projects. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will demonstrate a thorough understanding of digital design principles that is transferable to other disciplines.</p>	<p>TA506 A/B Credit: 1.0 Prerequisite: knowledge of computer basics Grades: 9-12</p>
<p>Web Design NHS, SWHS, SHS, WAIS</p> <p>The technology applications curriculum has six strands based on the National Educational Technology Standards for Students (NETS•S) and performance indicators developed by the International Society for Technology in Education (ISTE): creativity and innovation; communication and collaboration; research and information fluency; critical thinking, problem solving, and decision making; digital citizenship; and technology operations and concepts. This is an introductory course in web design where students will learn the basics of web page design using HTML and Flash scripting, web programming, page editing software and animation. Explore various site design models used in personal and commercial web sites.</p>	<p>TA632 A/B Credit: 1.0 Prerequisite: knowledge of computer basics Grades: 9-12</p>
<p>Digital Art and Animation NHS, WAIS</p> <p>Consists of computer images and animations created with digital imaging software. Has applications in many careers, including graphic design, advertising, web design, animation, corporate communications, illustration, character development, script writing, storyboarding, directing, producing, inking, project management, editing, and the magazine, television, film, and game industries. Students in this course will produce various real-world projects and animations.</p>	<p>TA504 A/B Credit: 1.0 Grades: 9-12 Prerequisite: knowledge of computer basics, Art I</p>
<p>Computer Science I MHS, NHS, SWHS, SHS, WAIS</p> <p>Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts.</p>	<p>TA312 A/B Credit: 0.5-1.0 Prerequisite: Algebra I Grades: 9-12</p>
<p>Computer Science II SWHS, SHS, WAIS</p> <p>Computer Science II will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of computer science through the study of technology operations, systems, and concepts.</p>	<p>TA322 A/B Credit: 1.0 Prerequisite: Algebra I and Computer Science I or Fundamentals of Computer Science Grades: 11-12</p>

Technology Applications

<p>AP Computer Science Principles MHS, SHS</p> <p>The AP Computer Science Principles course will introduce you to the essential ideas of computer science and show how computing and technology can influence the world around you. You will creatively address real-world issues and concerns while using the same processes and tools as artists, writers, computer scientists, and engineers to bring ideas to life.</p>	<p>TA310 A/B Credit: 1.0 Prerequisite: Grades: 11-12</p>
<p>AP Computer Science A MHS, SWHS, SHS</p> <p>The AP Computer Science A course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design.</p>	<p>TA319 A/B Credit: 1.0 Prerequisite: Grades: 11-12</p>
<p>Digital Video and Audio WAIS</p> <p>Digital Video and Audio is concerned with digitizing video and audio for use in multimedia and web applications. Emphasis is on advanced knowledge and skills for digital video/audio production, compression, and digitizing from traditional media.</p>	<p>TA508 A/B Credit: 1.0 Grades: 11-12 Prerequisite: proficiency in knowledge and skills relating to Technology Applications</p>
<p>Digital Communications in the 21st Century AOC,-WAIS</p> <p>Will prepare students for the societal demands of increased civic literacy, independent working environments, global awareness, and the mastery of a base set of analysis and communication skills. Students will be expected to design and present an effective product based on well-researched issues in order to thoughtfully propose suggested solutions to authoritative stakeholders. The outcome of the process and product approach is to provide students an authentic platform to demonstrate effective application of multimedia tools within the contexts of global communication and collaborative communities and appropriately share their voices to affect change that concerns their future.</p>	<p>TA109 A/B Credit: 1.0 Prerequisite: proficiency in knowledge and skills relating to Technology Applications Grades: 9-12</p>
<p>3-D Modeling and Animation NHS</p> <p>Consists of computer images created in a virtual three-dimensional (3-D) environment. Has applications in many careers, including criminal justice, crime scene, and legal applications; construction and architecture; engineering and design; and the movie and game industries. Students in this course will produce various 3-D models of real-world objects.</p>	<p>TA505 A/B Credit: 1.0 Prerequisite: proficiency in knowledge and skills relating to Technology Applications and Art I recommended Grades: 9-12</p>
<p>Independent Study in Evolving/Emerging Technologies WAIS</p> <p>Through the study of evolving/emerging technologies, including technology-related terms, concepts, and data input strategies, students will communicate information in different formats and to diverse audiences using a variety of technologies. Students will learn to make informed decisions, develop and produce original work that exemplifies the standards identified by the selected profession or discipline, and publish the product in electronic media and print. Students will demonstrate efficient acquisition of information by identifying task requirements, using search strategies, and using technology to access, analyze, and evaluate the acquired information. By using technology as a tool that supports the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results.</p>	<p>TA714 A/B Credit: 0.5-1.0 Prerequisite: permission of instructor/mentor Grades: 11-12</p>

Technology Applications

<p>Independent Study in Technology Applications WAIS</p> <p>Through the study of technology applications foundations, including technology-related terms, concepts, and data input strategies, students will communicate information in different formats and to diverse audiences using a variety of technologies. Students will learn to make informed decisions; develop and produce original work that exemplifies the standards identified by the selected profession or discipline; and publish the product in electronic media and print. Students will practice the efficient acquisition of information by identifying task requirements, using search strategies, and using technology to access, analyze, and evaluate the acquired information. By using technology as a tool that supports the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results.</p>	<p>TA712 A/B Credit: 0.5-1.0 Prerequisite: permission of instructor/mentor Grades: 11-12</p>
<p>Mobile Application Development MHS, SWHS</p> <p>Will foster students' creativity and innovation by presenting opportunities to design, implement, and deliver meaningful projects using mobile computing devices. Students will collaborate with one another, their instructor, and various electronic communities to solve problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use software development concepts to access, analyze, and evaluate information needed to program mobile devices. By using software design knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of mobile application development through the study of development platforms, programming languages, and software design standards.</p>	<p>Credit: 0.5-1.0 Prerequisite: proficiency in knowledge and skills relating to Technology Applications and Algebra I Grades: 9-12</p>
<p>Robotics Programming & Design SWHS, WAIS</p> <p>Will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful robotic programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve problems in designing and programming robots. Through data analysis, students will identify task requirements, plan search strategies, and use robotic concepts to access, analyze, and evaluate information needed to solve problems. By using robotic knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of robotics through the study of physics, robotics, automation, and engineering design concepts.</p>	<p>TA304 A/B Credit: 0.5-1.0 Prerequisite: proficiency in knowledge and skills relating to Technology Applications Grades: 9-12</p>

Health, Health Fitness, and Athletics

<p>Health NHS, SWHS, SHS</p> <p>This course examines the basic human anatomy and physiology and its relationship to the development of a healthy lifestyle. Students are involved in discussion and decision making with health fitness concepts and personal development (character education). Students will explore the impact of nutrition, mental health, communicable diseases, drugs, tobacco, healthy eating, alcohol and other factors on a healthy individual. They will also study parenting skills and responsibilities as well as relationship skills. Health education credit may be earned through Health Science Technology I. (Not Available at WAIS)</p>	<p>HPE112 Credit: 0.5</p>
<p>Foundations of Personal Fitness (FPF) SWHS</p> <p>The foundations of Personal Fitness course will present a wide array of topics related to health, physical fitness, and how to establish a high quality lifestyle. Students will learn how to assess their own health and fitness levels and based on that knowledge, they will be able to design their own personal fitness program. They will also learn to maintain a desired level of fitness once they have reached an appropriate level. The Consumer Issues unit of this course will help students identify fad diets, exercise gadgets and gimmicks. The course will consist of classroom sessions that will cover personal fitness concepts as well as a wide range of fitness activities.</p>	<p>HPE122 Credit: 0.5 Type: Meets HF requirement</p>
<p>Individual Sports AOC, NHS, SWHS, SHS</p> <p>Activities include sports and games that need only one or two people to participate, such as archery, tennis, aerobics, weight training, badminton, in-line skating, cycling and bowling (activities vary at individual campuses). Activities will vary depending on facilities, weather, and the number of people in the class. (Not Available at WAIS)</p>	<p>HPE131 HPE132 HPE133 Credit: 0.5 Type: Meets HF requirement</p>
<p>Team Sports AOC, MHS, SWHS, SHS, WAIS</p> <p>Activities include sports and games that require several people to participate, such as basketball, volleyball, field hockey, soccer, and other recreational games. Activities will depend on the number of students in the class, weather, and facilities available at the time.</p>	<p>HPE141 HPE142 HPE143 Credit: 0.5 each Type: Meets HF requirement</p>
<p>Aerobic Activities MHS, SWHS, SHS, WAIS</p> <p>Activities include cardio step, jump rope, power walking, interval training, aerobic impact and other activities that promote health related fitness. A major expectation of this course is for the student to design a personal fitness program that uses aerobic activities as a foundation.</p>	<p>HPE151 HPE152 HPE153 Credit: 0.5 each Type: Meets HF requirement</p>
<p>Fit to Spin</p> <p>This course narrows the study of aerobic fitness to concentrate on cycling through the use of stationary spin bikes. Students will participate in traditional aerobic activities (cardio step, cardio impact, Zumba and much more) as they design a fitness program that uses aerobic activities as a foundation.</p>	<p>HPE131 HPE132 Credit: 0.5 each Type: Meets HF requirement</p>
<p>Dance I/Health Fitness–Aerobics for Dance Credit MHS, WAIS</p> <p>This Dance I class is a full-year course which incorporates the Health Fitness aerobics TEKS*. At the end of the year, one credit is awarded for Dance I and one-half credit is awarded for Health Fitness.</p> <p>* Students will participate in aerobic activities that emphasize dance components. Students will design a personal fitness program that uses aerobic dance as a foundation.</p>	<p>PDNC1 A/B PDAN1 A Credit: Dance I 1.0 HF 0.5 Type: Meets HF requirement Grades: 9-12</p>

Health, Health Fitness, and Athletics

<p>Adventure/Outdoor Education SWHS, WAIS</p> <p>This course will offer outdoor education activities that provide opportunities for enjoyment and challenge that can be enjoyed for a lifetime and also promote a respect for the environments. Topics to be covered: Hiking/backpacking, orienteering, leadership, outdoor cooking, tent architecture, survival and safety skills, adventure fitness/conditioning.</p>	<p>HPE161 Credit: 0.5 each Type: Meets HF requirement</p>
<p><u>Please note that other options for health fitness courses offered at WAIS are Lacrosse Dance, and Soccer</u></p> <ul style="list-style-type: none"> • All athletic courses count as HF equivalents. • Cheerleading—4.0 credits available 9th -12th grade (audition only) • Drill Team—1.0 credit available 9th -12th grade (fall semester only) • Marching Band—1.0 credit available 9th -12th grade (fall semester only) • Color Guard—1.0 credit available 9th -12th grade (fall semester only) • JROTC—1.0 credit available 9th -12th grade 	
<p>Off Campus Health Fitness Waiver Program (Semester/Full Year) MHS, SWHS, SHS, WAIS</p> <p>Students may obtain their Health Fitness credit through approval of private or commercially-sponsored physical activities under a Category 1 or Category 2 request. This program is designed for the highly elite and intense training athlete. Documentation of practice times and qualifications of facility and coach are to be submitted for prior approval. http://cms.springbranchisd.com/health/HealthFitness/OffCampusPrograms/tabid/16081/Default.aspx For outside activities an alternative activity must be in place for practice times and activities due to inclement weather.</p> <p>CATEGORY 1 (Waivers in Category 1 must be approved by the local board and submitted to the Texas Education Agency) These programs typically involve a minimum of 15 hours per school week of highly intense, professionally-supervised training. Students qualifying and participating at this level may be dismissed from school one period per day for such participation.</p> <p>CATEGORY 2 (Waivers in Category 2 must be approved by the local board but do not require submission or approval to the Texas Education Agency.) Requests considered under this category are for private or commercially-sponsored physical activity programs as certified by the superintendent or his/her designee to be of high quality, well supervised by appropriately trained instructors, and consisting of a minimum of five (5) hours per school week (school week is Monday–Friday). Students qualifying and participating at this level are not dismissed from any part of the regular school day.</p>	<p>HP972 A/B (Category 1) HP973 A/B (Category 2) Credit: .5/semester of participation Grades: 9, 10, 11, 12 Prerequisite: Principal/District approval</p> <p>Applications must be submitted to the campus counselor by May 1st.</p> <p>Facility must be on approved SBISD OCHF Facility List prior to May 1st.</p> <p>See Grade Level Counselor for Student Application Packet</p> <p>Application to program required every year.</p>

Health, Health Fitness, and Athletics

<p>Competitive Sports</p> <p>All athletics are competitive UIL sports. None of the sports listed here are “learn to” sports. For example, tennis is competitive tennis team, not tennis lessons. All students wanting to participate in athletics must have coaches’ approval before being enrolled in an athletic period. Athletics courses last all year and require after-school practice, as well as attendance at games and meets. Students requesting athletics must register for both sessions unless specific approval in writing is received from the coach. <i>Note: When students sign up for athletics, they select the sport and grade level only.</i></p> <p>Participation in all sports requires:</p> <ul style="list-style-type: none"> • passing a physical exam • submitting all required paperwork including proof of insurance • trying out for the team <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> <p>Girls Athletics</p> <ul style="list-style-type: none"> • Basketball • Soccer • Softball • Volleyball </td> <td style="width: 50%; padding: 5px;"> <p>Sports Available to Boys or Girls</p> <ul style="list-style-type: none"> • Tennis • Cross Country • Track & Field • Swimming & Diving • Golf </td> </tr> <tr> <td style="padding: 5px;"> <p>Boys Athletics</p> <ul style="list-style-type: none"> • Football • Basketball • Soccer • Baseball </td> <td style="padding: 5px;"> <p>Student Athletic Trainers</p> <p>Must apply directly to the Athletic Trainer</p> </td> </tr> </table>	<p>Girls Athletics</p> <ul style="list-style-type: none"> • Basketball • Soccer • Softball • Volleyball 	<p>Sports Available to Boys or Girls</p> <ul style="list-style-type: none"> • Tennis • Cross Country • Track & Field • Swimming & Diving • Golf 	<p>Boys Athletics</p> <ul style="list-style-type: none"> • Football • Basketball • Soccer • Baseball 	<p>Student Athletic Trainers</p> <p>Must apply directly to the Athletic Trainer</p>	<p>Credit: 0.5 each Type: Meets HF requirement</p> <p><i>Note: When students sign up for athletics, they select the sport and grade level only.</i></p>
<p>Girls Athletics</p> <ul style="list-style-type: none"> • Basketball • Soccer • Softball • Volleyball 	<p>Sports Available to Boys or Girls</p> <ul style="list-style-type: none"> • Tennis • Cross Country • Track & Field • Swimming & Diving • Golf 				
<p>Boys Athletics</p> <ul style="list-style-type: none"> • Football • Basketball • Soccer • Baseball 	<p>Student Athletic Trainers</p> <p>Must apply directly to the Athletic Trainer</p>				
<p>Cheerleading</p> <p>Cheerleading is by audition only and allowed four credits (.5 credits for each semester or 1 credit for 1 year). In order for a student to earn this credit for cheerleading, the activity must include at least 100 minutes per five-day school week of moderate to vigorous physical activity.</p>	<p>PCHR1 A/B; PCHR2 A/B; PCHR3 A/B Credit: 4.0 credit available Type: HF substitution thru Athletics Grades: 10-12 Prerequisite: Parent meeting and student tryout process; see Campus Cheer Coach for more information</p>				
<p>Athletic Trainers MHS, NHS, SWHS</p> <p>Assist the school trainer in working with athletes in <i>all sports</i>. Good attendance and no discipline record are required for this class. An interest in sports medicine is a plus. You must apply directly to the trainer and have his or her written permission to be a trainer. The students will be assigned to an athletic period and receive credit for participation in athletics.</p>	<p>HP962 A/B Credit: 0.5 each Type: Meets HF requirement Grades: 10-11 Prerequisite: Athletic Trainer approval</p>				
<p>Sports Medicine I MHS, NHS, SWHS, SHS</p> <p>This course is an innovative course approved for state elective credit. It provides an opportunity for the study and application of the components of sports medicine including but not limited to: sports medicine related careers, organizational and administrative considerations, prevention of athletic injuries, recognition, evaluation, and immediate care of athletic injuries, rehabilitation and management skills, taping and wrapping techniques, first aid/CPR/AED, emergency procedures, nutrition, sports psychology, human anatomy and physiology, therapeutic modalities, and therapeutic exercise.</p>	<p>HP136 A/B Credit: 1.0 each Type: Elective Grades: 9-12</p>				

Health, Health Fitness, and Athletics

<p>Sports Medicine II</p> <p>This course is an innovative course approved for state elective credit. It is designed for athletic training students. It provides an in-depth study and application of the components of sports medicine including but not limited to: basic rehabilitative techniques; therapeutic modalities, wound care, taping and bandaging techniques, prevention, recognition, and care of musculoskeletal injuries; injuries to the young athlete; drugs in sports; modern issues in sports medicine. Individualized and independent assignments will be include in this course. This course will involve outside of class time homework and time required working with athletes and athletic teams.</p>	<p>MHS, NHS, SWHS</p>	<p>HP137 A/B Credit: 1.0 each Grades: 10-12 Prerequisite: Sports Medicine I and Athletic Trainer approval</p>
<p>Sports Medicine III</p> <p>This course is intended to give advanced athletic training for students. This course will apply the knowledge and skills gained in previous sports medicine courses. The course will provide opportunities for the advanced students in the sports medicine programs to research, investigate, prepare, and present case studies, research projects, visual poster presentations, and multimedia presentations on instructor-approved topics. The course will provide students the opportunity to explore a health career of their choice.</p>	<p>MHS, NHS, SWHS</p>	<p>HP138 A/B Credit: 1.0 each Grades: 11-12 Prerequisite: Sports Medicine I and II</p>

Human Sexuality Instruction

In response to *Senate Bill 283*, SBISD is providing written notice of our intent to provide human sexuality instruction to students.

Senate Bill 283 specifies:

Before each school year, a school district shall provide written notice to a parent of each student enrolled in the district of the board of trustees' decision regarding whether the district will provide human sexuality instruction to district students. If instruction will be provided, the notice must include:

- (1) a summary of the basic content of the district's human sexuality instruction to be provided to the student, including a statement informing the parent of the instructional requirements under state law;*
- (2) a statement of the parent's right to:

 - a. review curriculum materials as provided by Subsection (j); and*
 - b. remove the student from any part of the district's human sexuality instruction without subjecting the student to any disciplinary action, academic penalty, or other sanction imposed by the district or the student's school; and**
- (3) information describing the opportunities for parental involvement in the development of the curriculum to be used in human sexuality instruction, including information regarding the local school health advisory council established under Subsection (a).*

A parent may use the grievance procedure adopted procedure set forth in **Board Policy FNG (LOCAL)** concerning a complaint of a violation of *Subsection (i)*.

SBISD Board of Trustees approved the following curriculums to be used as a supplemental program to our state adopted text in the middle school and high school classes:

Middle School – It's Your Game, Keep It Real: www.itsyourgame.org

High School – Reducing the Risk: www.etr.org

Each of these programs provides detailed information on motivating students to set goals, make good decisions, develop healthy relationships, and choose abstinence.

A Human Growth and Development curriculum is offered in grade 5. This program addresses the challenges resulting from the physical, emotional and social changes experienced by the child approaching puberty. The program covers the structure and function of the human body, general health, and general hygiene.

Letters will be sent home prior to the presentation of curriculum materials informing parents of program details.

Parents are encouraged to participate in the District School Health Advisory Council (SHAC). Meeting information can be found on the District website at

<http://cms.springbranchisd.com/health/CSH/DSHAC/tabid/26371/Default.aspx>.

Enrichment and Support

<p>Office Assistant MHS, NHS, SWHS, SHS, WAIS</p> <p>Students will be assigned to the various areas on campus, including the grade level offices, counselor's office, registrar's office, clinic and library. Duties will vary according to specific assignment, but may include filing, answering phones, delivering of messages and office passes, shredding papers, and shelving materials. Prerequisite: Excellent attendance, no serious discipline infractions, pleasant co-operative attitude, willingness to work.</p>	<p>AD322 A/B Credit: 0.5-1.0 local credit Type: Local elective Grades: 11 and 12 only. Prerequisite: Approval required</p>
<p>SAT Prep/Fundamentals of College Admission MHS, NHS, SWHS, SHS</p> <p>Provides students with a review of SAT verbal and math skills; an understanding of the types of questions found on the test; a knowledge of general test-taking strategies as well as the best specific strategies to use for each type of question. Also guides students through the steps of the college admissions process, e.g. college and career exploration and research, the college application, resume writing, essay writing, financial aid, etc.</p>	<p>ADM912 A/B Credit: 0.5 credit Type: State elective</p>
<p>Study Hall AOC, MHS, SHS, WAIS</p> <p>Study hall will be offered as a student choice for either one semester or the entire year. There would be no structured curriculum. Any student may request study hall. Upperclassmen with heavy curricular and extracurricular loads are encouraged to consider taking this class.</p>	<p>ADS13 A/B WAIS: ADS09 A/B ADS10 A/B ADS11 A/B ADS12 A/B Credit: 0.5 local credit Type: Local elective Grades: 9-12</p>
<p>Teacher's Aide MHS, SHS, WAIS</p> <p>Student will be assigned to a specific teacher. This must be approved by the teacher and the counselor. Excellent attendance and discipline, a pleasant co-operative attitude, and a willingness to work is required.</p>	<p>MHS: AD332 C/D SHS: AD342 A/B Credit: 1.0 Local credit Type: Local elective Prerequisite: Good conduct & grades with teacher approval Grades: 11-12</p>
<p>Student Leadership I/Student Leadership II AOC, MHS, SHS</p> <p>This course provides an emphasis on personal growth with the following topics of discussion: the foundation of one's character; exploration of the four personalities in an interactive fun book, with a style analysis; and solving the inner workings of why people do the things they do. Students will discuss: What is leadership? What are the myths of leadership? Who is a leader? How does a leader develop influence? How does one develop leadership potential? Discussion will evolve around how leaders have vision, are creative, defeat worry, and use time wisely. Students will also discuss: how attitude can determine success and potential; the anatomy of a failure and what prevents individuals from being successful before even starting; and how one's mind works (the human potential). Students will learn to develop a positive self-image, avoid procrastination and explore how individual needs can impact behavior.</p>	<p>ADM212 A/B ADM 222 Credit: 0.5 each Grades: 11-12</p>

Enrichment and Support

<p>Peer Assistance Mentoring Program SHS</p> <p>This a class that meets every other day for one credit. Students in the class are trained to work with children one on one on the elementary and middle school levels. During the summer before the class begins, there is a required one day training. Stratford students sign a pledge to remain alcohol and drug free and to follow all school rules and regulations. It is important that they remember they are role models to the younger children that they serve. Students will provide their own transportation to the elementary and middle school campuses, carpooling can be arranged in many circumstances. Each week students report to two different elementary and middle school campuses to work with children. They spend one hour on each campus during our class period. The children at the elementary and middle schools are recommended for the mentoring program by the principals, counselors and teachers. The Stratford students work very hard to develop a relationship of trust and caring with the younger students they are assigned.</p>	<p>AD962 A/B Credit: 1.0 each Grades: 11-12</p>
<p>Future Teachers MHS, SHS</p> <p>Designed to provide students with an overview of current educational issues, the role of teachers in society, and interactive experience working with children at elementary schools. Generally, students are on their assigned campuses four days a week; however, this may change for special schedules and specific teacher needs. On Fridays, students meet with their MHS teacher to discuss concerns and receive updates on current educational philosophy. Students are assigned to a cooperating teacher at an elementary school, and their work varies according to the needs of the cooperating teacher. In the past, students worked with a variety of classes including music, art, and physical education. Some students worked with children who have special needs. Because of limited positions, students must complete an application form and go through an interview in the spring before their senior year. Maturity, good judgment, good attendance, and an absence of discipline problems are main considerations in appointing students to these positions. Students must have their own transportation. Future teachers have a dress code which does not permit them to wear thong sandals of any kind blue jeans, or mini skirts. This rule is strictly enforced as the students are in a professional environment. Attendance is a main concern as the cooperating teacher needs to plan for her/his student. Students may not take Future Teachers AND Late Arrival.</p>	<p>Credit: 1.0 MHS: 2 credits CET 12 A/B Instruction Practicum Ed. Type: Local elective Grade: 12</p>
<p>Algebra I Support</p> <p>Algebra I Support provides additional instruction and individualized support for students in the study of Algebra. Intense preparation to meet the STAAR standards is an integral part of this course. A firm foundation in Algebra I is critical for success in higher level mathematics courses. Students who have low scores in their math testing or math coursework will be recommended for this course. This course will be taken concurrently with Algebra I and may be required for some students.</p>	<p>Credit: 1.0 Type: Local elective Grades: 9-10</p>
<p>Geometry Support</p> <p>Geometry Support provides additional instruction and individualized support for students in the study of Geometry. Intense preparation to meet the STAAR standards is an integral part of this course. Students who have low scores in their math testing or math coursework will be recommended for this course. This course will be taken concurrently with Geometry.</p>	<p>Credit: 1.0 Type: Local elective Grades: 9-10</p>
<p>College Pathway SWHS</p> <p>This course is designed to equip students with the knowledge, skills, and abilities necessary find their college, apply for admissions and financial aide, and become a successful learners in both high school and college.</p>	<p>AD501 A/B AD502 A/B AD503 A/B Credit: 1 each</p>

Business & Industry Endorsement

BI AGRICULTURE, FOOD & NATURAL RESOURCES CLUSTER

ADVANCED ANIMAL SCIENCE

(State-Approved Advanced Science Course)

Meet a class that will take you farther. This course is designed for students who want to deepen their knowledge of the livestock industry. In-depth studies include animal industry, anatomy & physiology, and livestock husbandry. Offered spring semester only. Prerequisite: Successful completion of Small Animal Management and Veterinary Medical Applications

Schools: Guthrie

Grades: 11-12

Credit/Course ID: 1 / 13000700 / CTAG15

ADVANCED PLANT AND SOIL SCIENCE

(State-Approved Advanced Science Course)

Get out of the classroom and take a class designed around greenhouse management from germinating seedling to marketing a finished product. Learn the techniques involved with propagation, fertilization, and maintenance. Investigations, laboratory practices, and field exercises will be used to develop an understanding of current plant and soil science.

Prerequisite: Successful completion of Horticulture Science

Schools: Guthrie

Grades: 11-12

Credit/Course ID: 1 / 13002100 / CTAG29

AGRICULTURAL MECHANICS

Ag Mech takes you through an overview of the skills you would need to maintain a farm or homestead. This hands-on class starts off with safety and exploration of the agricultural job market, then goes right into use of power tools, electrical, plumbing, concrete work, carpentry, fencing and working with metals including welding. Once you successfully complete the class you can tackle many repairs on the farm or at home.

Schools: Guthrie

Grades: 10-12

Credit/Course ID: 1 / 13002200 / CTAG30

EQUINE SCIENCE

If you like horses, this will be your favorite class. Students will be exposed to equine science and technology principles that include genetics, anatomy, physiology/nutrition, diseases, pests, and management practices. Topics also include an introduction to the equine industry, various breeds, conformation, selection, care and management, soundness, health, feeding, farrier observation, restraints, general vaccinations and overall managerial duties.

Recommended Prerequisite: Principles of AFNR

Schools: Guthrie

Grades: 10-12

Credit/Course ID: 1 / 13000500 / CTAG13

FLORAL DESIGN

(State-Approved as Fine Arts Credit)

Let loose your creative side as this hands-on course takes you through step-by-step instructions of arranging flowers and interior plant designs. Leave this class with the skill to arrange flowers for

yourself or for employers. Look forward to designing your projects and taking them home to share with others.

Recommended Prerequisite: Principles of AFNR

Schools: Guthrie

Grades: 10-12

Credit/Course ID: 1 / 13001800 / CTAG26

Technical Certification: Texas Florist High School Floral Certification

HORTICULTURE SCIENCE

Get your hands dirty and develop your green thumb by way of an introduction to horticulture science through hands-on activities, projects, and problems. Learn plant growth and development, nutrition, media selection, plant identification and pest management. Your work will involve the study of the principles of plant anatomy and physiology, taxonomy, and the fundamentals of production and harvesting.

Recommended Prerequisite: Principles of AFNR

Schools: Guthrie

Grades: 10-12

Credit/Course ID: 1 / 13002000 / CTAG28

LIVESTOCK PRODUCTION

Gain insight and information about the animals that feed our world.

This course will provide you an introduction to livestock production including anatomy, nutrition, health care and information specific to the species. If you are interested in livestock judging this is for you.

Recommended Prerequisite: Principles of AFNR

Schools: Guthrie

Grades: 9-12

Credit/Course ID: 1 / 13000300 / CTAG11

OIL & GAS PRODUCTION 1

Interested in the oil and gas industry then this is the class for you! Students enrolled in this course will be able to identify specific career opportunities in the oil and gas industry, and the skills, abilities, tools, certification, and safety measures associated with each career.

Students will also be provided with an understanding of components, systems, equipment, production, and safety regulations associated with oil and gas well production and maintenance.

Schools: Guthrie

Grades: 10-12

Credit/Course ID: 1 / N1300254 / CTAG50

OIL & GAS PRODUCTION 2

Oil and Gas Production 2 students will deepen their knowledge gained in Oil and Gas Production 1. Students enrolled in this course will be able to identify and determine potential career opportunities in the oil and gas industry they are interested in pursuing. They will continue to expand knowledge and the skills, abilities, tools, certification, and safety measures associated with each career.

Students will also be provided with an understanding of components, systems, equipment, production, and safety regulations associated with oil and gas well production and maintenance.

Prerequisite: Oil & Gas Production 1

Schools: Guthrie

Grades: 11-12

Credit/Course ID: 1 / N1300255 / CTAG51

PRINCIPLES OF AGRICULTURE, FOOD & NATURAL RESOURCES (AFNR)

Don't think agriculture affects you? Get ready for this eye opening class! Learn how food, clothing, shelter, transportation, medicine and

modern-day conveniences rely on agricultural products. Students will also explore how agriculture affects government & international trade.

Schools: Guthrie

Grades: 9-12

Credit/Course ID: 1 / 13000200 / CTAG10

SMALL ANIMAL MANAGEMENT

Learn what a valuable role dogs, cats, hamsters, birds, and reptiles play in our society. Develop knowledge and skills pertaining to the selection, nutrition, grooming, reproduction, health, and management of small animals. Live animals are used in classroom demonstrations.

Recommended Prerequisite: Principles of AFNR

Schools: Guthrie

Grades: 9-12

Credit/Course ID: 1 / 13000400 / CTAG12

VETERINARY MEDICAL APPLICATIONS

Explore the basics of the veterinary medical profession and know what goes on behind the scenes of a vet clinic. You will gain skills that technicians need to know, like handling a wide variety of animals, assisting clients, office management and legal issues. Learn common ailments and treatments as well as emergency care techniques. Classroom demonstrations will use live animals.

Prerequisite: Successful completion of Livestock Production or Small Animal Management

Schools: Guthrie

Grades: 11-12

Credit/Course ID: 1 / 13000600 / CTAG14

Technical Certification: Certified Vet Assistant Level 1 (12th grade)

WILDLIFE, FISHERIES, & ECOLOGY MANAGEMENT

This course is designed for students who love the great outdoors. Learn how to identify, manage and conserve wildlife and their ecology. Students can acquire state certification in Hunter Education.

Recommended Prerequisite: Principles of AFNR

Schools: Guthrie

Grades: 9-12

Credit/Course ID: 1 / 13001500 / CTAG23

Technical Certification: Texas Hunter Education Certification, Texas Boater Education Certification

ARCHITECTURE & CONSTRUCTION CLUSTER

ARCHITECTURAL DESIGN

Want to design your future as an architect? Start your sophomore year at the Guthrie Center for potentially three years of architectural study. Projects are designed to build your portfolio and resume so that you are the best candidate for the college program of your choice. In your first year of study, you will learn networking techniques, art practices, technical drafting and beginning computer aided drafting skills. You will learn the lettering styles used by architects, how to do an "as-built," how to read a blueprint, how to edit a commercial tenant improvement set of documents and compete in a student design competition. Start building your dream today!

Prerequisite: Successful completion/concurrent enrollment in Geometry

Schools: Guthrie

Grades: 10-12

Credit/Course ID: 2 / 13004600 / CAC12A & CAC12B

ARCHITECTURAL DESIGN 2 | ADVANCED

Carry on the dream by taking a second year of architectural study. Building upon knowledge and skills successfully mastered in Architectural Design, you will learn about residential design. You will study building codes, interior design, room relationships and sizes, exterior design, conservation and environmental design and framing methods. Projects added to your portfolio will include designing a kitchen, preparing presentation materials using advanced computer aided drawing skills, specifying appliances and materials, and building a scaled model and competing in a student design competition. Continue to construct your future today.

Prerequisite: Successful completion of Architectural Design with teacher recommendation

Schools: Guthrie

Grades: 11-12

Credit/Course ID: 2 / 13004700 / CAC22A & CAC22B

Technical Certification: AUTODESK Certified User: AutoCad

ARCHITECTURAL DESIGN 3 | PRACTICUM

Planning for achievement towards a degree in architecture involves a developed portfolio, skilled instruction, dedication and hard work. This year binds together the previous two years of instruction. Students will receive instruction about safety, career opportunities, architectural soft skills, work ethics, student design competition, and college architectural design study. In addition, students will have the talent to create a senior design project to add to their developing portfolio. The foundation is laid for success in an exciting career in Architecture.

Prerequisite: Architectural Design 2 with teacher recommendation

Schools: Guthrie

Grades: 12

Credit/Course ID: 2 / 13004800 / CAC82A & CAC82B

Technical Certification: AUTODESK Certified User: REVIT

CONSTRUCTION TECHNOLOGY

Construction is one the fastest growing fields in Houston. Come be a part of it! Discover what is needed to enter the workforce as a carpenter, building maintenance supervisor or prepare for a post-secondary degree in construction management, architecture or engineering. Through hands-on activities, skills in safety tool usage, building materials, codes and framing are experienced.

Schools: SWHS, NHS

Grades: 10-12

Credit/Course ID: 1 / 13005100 / CAC14A & CAC14B

CONSTRUCTION TECHNOLOGY 2 | ADVANCED

Advanced Construction Technology is a second level course where you continue the skills acquired from Construction Technology. You will be introduced to exterior and interior finish out skills, cabinetry, and other construction trades such as electrical and plumbing.

Prerequisite: Successful completion of Construction Technology

Schools: SWHS, NHS

Grades: 11-12

Credit/Course ID: 2 / 13005200 / CAC24A & CAC24B

INTERIOR DESIGN

Are you creative? Do you enjoy art? Are you interested in construction? Interior Design will give you the opportunity to develop the fundamental skills needed to create functional along with beautiful living environments. You will learn about the many facets of Interior Design including: the elements & principles of design, color theory, materials, furniture, space planning, furniture arranging, the trends and issues of interior design & housing. You will apply concepts by

hands-on activities related to residential to commercial aspects within the construction industry.

Schools: MHS, SWHS, SHS

Grades: 10-12

Credit/Course ID: 1 / 13004300 / CAC11A & CAC11B

JACK OF ALL TRADES

Whatever you do to earn a living, chances are you will live in or own a home and be responsible for making repairs and keeping it in good condition. If you make lots of money you can just hire people to do it for you, but most people end up trying to fix it themselves. This class will address routine repairs and maintenance around the home using only the tools you will might find in a toolbox or workbench at home. You will identify, plan and solve real problems and should finish the class thinking you are a do-it-yourself expert.

Schools: NHS, SWHS

Grades: 9-12

Credit/Course ID: 1 / 13004200 / CAC10A & CAC10B



ARTS, A/V TECHNOLOGY & COMMUNICATIONS CLUSTER

3D ANIMATION

Learn to develop and communicate your animation ideas through 3D Modeling, animation, concept drawings, storyboards, virtual lights & cameras, and scene design using the same techniques and software used by professionals.

Schools: Guthrie

Grades: 9-12

Credit/Course ID: 2 / 13008300 / CAV11A & CAV11B

3D ANIMATION 2 | ADVANCED ANIMATION

Expand the skills and creativity you developed in Animation. Skills taught include introduction to character design, 3D modeling and texturing a character, Bone system and character rigging for animation, effective in-depth storytelling, visual effects and post production techniques, intro to Motion Capture, integrated audio and sound F/X.

Prerequisite: Successful completion of Animation 1 and teacher recommendation

Schools: Guthrie

Grades: 10-12

Credit/Course ID: 2 / 13008400 / CAV21A & CAV21B

Technical Certification: Autodesk 3Ds Max Design Certified User

3D ANIMATION 3 | PRACTICUM 1

Utilize the latest technologies in 3D Modeling, Animation for developing real time graphics, with the goal of producing models and animations that relate to industrial projects such as: product visualization, oil and gas equipment, architectural scenes, and consumer products.

Prerequisite: Successful completion of Animation 2 and teacher recommendation

Schools: Guthrie

Grades: 11-12

Credit/Course ID: 2 / 13009000 / CAV83A & CAV83B

3D ANIMATION 4 | PRACTICUM 2

This course expands the use of motion capture as it applies to game development. You will learn how to create games level by utilizing current game development engines; also explore concepts in layering digital assets into composites for video and film. This prepares you

for working in the industry through internships with local business partners, as well as extending animation studies at a college or university.

Prerequisite: Successful completion of Practicum 1 and teacher recommendation

Schools: Guthrie

Grades: 12

Credit/Course ID: 2 / 13009010 / CAV93A & CAV93B

Technical Certification: Autodesk 3Ds Max Design Certified Professional

COMMERCIAL PHOTOGRAPHY

Are you creative? Do you like to take photos? The Guthrie Center Commercial Photography Department teaches you how to transform your love of photos into a serious hobby or can even propel you into an exciting career that can earn you money while you go to college! This hands-on and very unique Guthrie class will give you an opportunity to work in a real studio using professional equipment. You'll learn how to edit your photos using the latest software and will create an amazing portfolio that can open doors to an exciting new world!

Schools: Guthrie

Grades: 9-12

Credit/Course ID: 2 / 13009100 / CAV14A & CAV14B

COMMERCIAL PHOTOGRAPHY 2 | ADVANCED

If you want to take your Commercial Photography 1 skills to the next level, this advanced course takes you through a more technical experience and encourages you to push your imagination. Students spend most of their time in our studios and are often selected to work for outside clients. Students can earn an industry certification.

Prerequisite: Successful completion of Commercial Photography 1 with teacher recommendation

Schools: Guthrie

Grades: 10-12

Credit/Course ID: 2 / 13009200 / CAV24A & CAV24B

Technical Certification: Adobe Certified Associate - Photoshop

COMMERCIAL PHOTOGRAPHY 3 | PRACTICUM

This course is for the very serious student who plans to pursue a career in this field. Students are self-starters, often work independently and are led under the instruction of the teacher. Students can earn an upper-level industry certification.

Prerequisite: Successful completion of Commercial Photography 2

Schools: Guthrie

Grades: 11-12

Credit/Course ID: 2 / 13008600 / CAV87A & CAV87B

Technical Certification: Adobe Certified Expert - Lightroom

FASHION DESIGN

Bring fashion to life! This course will introduce you to the world of fashion. Topics covered are the trends of fashion, apparel industry, promotion, textiles, design, clothing construction and careers related to fashion. It is a "hands-on" course that will allow you to have many career-related experiences.

Schools: MHS, SHS, SWHS

Grades: 10-12

Credit/Course ID: 1 / 13009300 / CAV15A & CAV15B

FASHION DESIGN 2 | ADVANCED

Do you dream of being a top fashion designer? In this course you will have the opportunity to evaluate the fibers and fabrics used to create great designs. You will analyze the influences from the past, present and possible future of Textile Design and Production and identify

careers in the apparel and textile industries. You will determine how history continues to influence the apparel industry today. You will have the opportunity to create fashion garments that reflect the application of design elements and principles. It is a “hands-on” course that will provide many career-related experiences.

Prerequisite: Successful completion of Fashion Design

Schools: SHS, SWHS

Grades: 11-12

Credit/Course: 2 / 13009400 / CAV25A & CAV25B

FILM AND VIDEO PRODUCTION

Lights! Camera! Action! Do you enjoy watching movies and music videos? Are you the person that’s always seen the latest films, knows who’s directed them and know some of the behind-the-scenes information? If so, The Guthrie Center Film class is for you! We are unlike any other class offered in SBISD! You’ll learn how to produce and direct your own productions and you’ll even create a demo reel of all of your work. You’ll learn how to use Final Cut Pro X, the leading software used in editing movies like The Social Network, The Girl With the Dragon Tattoo, X-Men, Napoleon Dynamite and more! Whether you want to go to Hollywood and become a Director or want to learn a serious hobby, this class will give you an experience you’ll never forget.

Schools: Guthrie

Grades: 9-12

Credit/Course ID: 2 / 13008500 / CAV12A & CAV12B

FILM AND VIDEO PRODUCTION 2 | ADVANCED

If you want to take your Film I experience to the next level, this class is for you. This class is for students who want to pursue a career in this industry and want to gain the skills and knowledge that will set them apart and get them that job. Students are often selected to produce for outside clients. Students can earn an industry certification.

Prerequisite: Successful completion of Film and Video Production 1 with teacher recommendation

Schools: Guthrie

Grades: 10-12

Credit/Course ID: 2 / 13008600 / CAV22A & CAV22B

Technical Certification: Apple Final Cut Certified Associate

FILM AND VIDEO PRODUCTION 3 | PRACTICUM

This course is for the very serious student who plans to pursue a career in this field. Students are self-starters, often work independently and are led under the instruction of the teacher. Students can earn an upper-level industry certification.

Prerequisite: Successful completion of Film and Video Production 2 and teacher recommendation

Schools: Guthrie

Grades: 11-12

Credit/Course ID: 2 / 13008700 / CAV82A & CAV82B

GRAPHIC DESIGN

Utilize the latest tools and software to design colorful, exciting, eye catching, engaging and memorable advertising and marketing communications that will have people abuzz about the products and services that you feature. This course focuses on the basics of color and design, illustration and the effective use of typography to showcase your clients’ products or services to their potential customers. Learn software tools that professionals use to bring your ideas to print.

Schools: Guthrie

Grades: 9-12

Credit/Course ID: 2 / 13008800 / CAV13A & CAV13B

GRAPHIC DESIGN 2 | ADVANCED

Today our society relies on visual communication. The second year continues deeper into concepts and processes of Graphic Design for print and web. Adobe Creative Suite with projects in editorial, web and motion graphic design can be mastered.

Schools: Guthrie

Grades: 10-12

Credit/Course ID: 2 / 13008900 / CAV23A & CAV23B

Technical Certification: Adobe Certified Associate - Illustrator

GRAPHIC DESIGN PRACTICUM

Today our society relies on visual communication. The second year continues deeper into concepts and processes of Graphic Design for print and web. Adobe Creative Suite with projects in editorial, web and motion graphic design can be mastered.

Schools: Guthrie

Grades: 11-12

Credit/Course ID: 2 / 13009000 / CAV85A & CAV85B

Technical Certification: Adobe Certified Associate – InDesign

BUSINESS, MANAGEMENT & ADMINISTRATION CLUSTER

BUSINESS INFORMATION MANAGEMENT

In today’s tech-savvy world, technology skills are a must! Develop the computer skills you need to succeed in both college and career. This course includes applications for both personal and business situations, with particular focus on the Microsoft Office Suite and the Internet/Computer Core Certification (IC3). The IC3 is a globally recognized certification, giving you a competitive advantage in today’s hot job market. This course is required for Academy of Finance students.

Schools: MHS, NHS, SHS, SWHS, WAIS

Grades: 9-12

Credit/Course ID: 1 / 13011400 / CBM12A & CBM12B

Technical Certification: MOS Word and Excel Certification

BUSINESS INFORMATION MANAGEMENT 2

Expand your computer skills by building advanced technology expertise required in today’s global business environment. By the end of this course you will know the Microsoft Office Suite in depth and can become certified as a Microsoft Office Specialist (MOS). MOS is a globally recognized certification that is standard for demonstrating technology proficiency. This certification sets you apart from the job-seeking crowd.

Schools: MHS, SHS, SWHS

Grades: 10-12

Credit/Course ID: 1 / 13011500 / CBM22A & CBM22B

Technical Certification: Additional MOS Certifications

BUSINESS LAW

Are you a “Law and Order” fan? Business Law will teach you to analyze legal issues related to civil and criminal laws, the court system, contracts, family law, employment, and property to prepare you for life and the workplace. You will use your technical skills to the study of business and contemporary legal issues. This is one of the optional courses for the Academy of Finance requirements.

Schools: MHS, NHS, SHS

Grades: 11-12

Credit/Course ID: .5 / 13011700 / CTBM14

GLOBAL BUSINESS

The world is just a touch away! Global Business introduces concepts of the global market and international trade. We will look at the economy of the global marketplace, study cultural differences and the effects of those differences on our society, international law and finance. Enjoy this innovative experience and discover the world at hand. This is one of the optional courses for the Academy of Finance requirements.

Schools: MHS, NHS, SHS, SWHS, WAIS
Grades: 11-12
Credit/Course ID: .5 / 13011800 / CTBM15

PRINCIPLES OF BUSINESS, MARKETING & FINANCE

Want to open up a whole new world of opportunities? Then let's get down to business! In this course, you will gain knowledge and skills in business, finance and marketing. This is one of the optional courses for the Academy of Finance requirements.

Schools: MHS, NHS, SWHS, SHS, AOC
Grades: 9-12
Credit/Course ID: .5 / 13011200 / CTBM10


**FINANCE
CLUSTER**
ACCOUNTING 1

Want to get a grasp on how finances are handled in the world of business? Accounting is the class to take! This fun and challenging program will give you an understanding of the checks and balances of the business world. Accounting 1 is a college prep course for Business majors. It is the equivalent to college level Office Accounting, which is a prerequisite to Financial Accounting on the college level. The goal of the class is to build a good foundation of Accounting theory so you will be successful in college Accounting. You will complete the Accounting cycle for both a service and merchandising business. This course is required for Academy of Finance students.

Schools: MHS, NHS, SHS, SWHS
Grades: 10-12
Credit/Course ID: 1 / 13016600 / CF114A & CF114B
Technical Certification: QuickBooks Certified User

ACCOUNTING 2

Level 2 provides for review and further development of fundamental accounting principles with extensive use of computerized accounting programs. Study the Stock Market, Investing and Corporate Accounting. This is one of the optional courses for Academy of Finance requirements.

Prerequisite: Successful completion of Accounting 1
Schools: MHS, SHS
Grades: 11-12
Credit/Course ID: 1 / 13016700 / CF124A & CF124B

BANKING AND FINANCIAL SERVICES

This integral part of the Academy of Finance program delves into the dynamic Banking and Financial industries, hence the name. Discover the excitement of operating in the banking world including sales and management functions. This is one of the optional courses for the Academy of Finance requirements.

Schools: MHS, NHS, SHS
Grades: 10-12
Credit/Course ID: .5 / 13016300 / CTF111

MONEY MATTERS

Money – In our global society, money does make the world go around! This yearlong course is designed to prepare you to make wise lifetime financial choices, with an emphasis on global economics and how it influences you as a consumer and in your business. You will analyze financial options including long term financial planning, investments tax planning, asset allocation, risk management, retirement and estate planning. This course is required for Academy of Finance students.

Schools: MHS, NHS, SHS, SWHS, AOC
Grades: 10-12
Credit/Course ID: 1 / 13016200 / CF110A & CF110B

SECURITIES AND INVESTMENTS

Want to make your money work for you? This is the class where you will be exposed to business operations and transactions in the securities and investments industry. Topics include buying and selling securities, real estate law, real estate titling, investment analysis and selection processes, stocks and bonds, real estate appraisal, and licensing/certification programs. This is one of the optional courses for the Academy of Finance requirements.

Grades: 10-12
Credit/Course ID: 0.5 / 13016400 / CTF112


**HOSPITALITY &
TOURISM CLUSTER**
CULINARY ARTS

Culinary Arts begins with the fundamentals of cooking, the science of baking, management and production skills, and safety/sanitation procedures. Along with guest chefs, we will help you develop and refine your creative side. You will master the steps of recipe development and event planning where you will participate in specific dining functions throughout the course.

Schools: Guthrie
Grades: 9-12
Credit/Course ID: 2 / 13022600 / CHT14A & CHT14B
Articulated College Credit with The Art Institute of Houston
Technical Certification: ServSafe Food Handler

CULINARY ARTS 2 | ADVANCED

In this course you will be in the kitchens working with food most of the time! First Semester will be dedicated to Baking and Pastry in our commercial bake shop and second semester will be geared towards international cuisine. Culinary Arts 2 will extend content and enhance skills introduced in Culinary Arts by infusing high-level, industry-driven content to prepare students for success in higher education, certifications and/or immediate employment. This mid-level course will increase your depth of knowledge and experience in specific areas including baking, protein selection, advanced nutrition and sustainability. As an Advanced Culinary Arts student you will have a complete understanding of front and back of the house roles and how these areas work together to create a successful operation. You will prepare for national certifications that will provide you an advantage for scholarships, college admittance and employment.

Schools: Guthrie
Grades: 10-12
Credit/Course ID: 2 / N1302265 / CHT24A & CHT24B
Articulated College Credit with The Art Institute of Houston

CAFE OPERATIONS & CATERING | PRACTICUM

This course will put you in the driver's seat for running our campus café! A combination of lab instruction, demonstration, and hands-on production will provide you practical application to café and catering business practices and kitchen operations.

Prerequisite: Successful completion of Culinary Arts

Schools: Guthrie

Grades: 11-12

Credit/Course ID: 2 / 13022710 / CHT94A & CHT94B

Articulated College Credit with The Art Institute of Houston

CHEF TRAINING | PRACTICUM

Chef Training is for students that are sincerely interested in the culinary field. You will partner with chefs from The Art Institute of Houston and other area professional chefs as we learn higher-level cooking skills. You will develop advanced knife skills, soup and sauce production, vegetable and meat cookery, and may earn your ServSafe certification. Study trips include touring restaurants and hotels, and networking with professional chefs and others in the industry.

Prerequisite: Successful completion of Culinary Arts

Schools: Guthrie

Grades: 11-12

Credit/Course ID: 2 / 13022700 / CHT84A & CHT84B

Articulated College Credit with The Art Institute of Houston

Technical Certification: ServSafe Food Service Manager Certification

FOOD SCIENCE

(State-Approved Advanced Science Course)

Meet your science credit for graduation, with this class. Food Science is the study of the nature of foods, the causes of deterioration, the principles underlying food processing, and the improvement of foods for the consuming public. You will conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving.

Schools: SWHS

Grades: 11-12

Credit/Course ID: 1 / 13023000 / SC432A & SC432B

HOTEL 1 | HOTEL MANAGEMENT PRACTICUM 1**HOTEL 2 | TRAVEL & TOURISM WITH PRACTICUM 2**

An off-campus internship located at the luxurious Omni Houston Hotel Westside on the Katy Freeway. Gain self-confidence and valuable job skills as you experience hands-on training, as you rotate through several departments of the hotel. Choose your training from the following departments: front desk, banquets, restaurant, culinary, gift shop, sales and marketing, guest services, accounting, human resources, switchboard, engineering and housekeeping. Network with the award-winning managers of the Omni Hotel, participate in exciting field trips with an optional trip to New York City! If you want to get an early start in your career, then join this popular internship.

Transportation to Omni is provided.

Schools: Guthrie

Grades: 10-12

Credits: Double blocked - SHS, WAIS; 3 Periods - MHS, NHS, SWHS

Credit/Course IDs:

Year 1: 1 / 13022300 / CHT11A and B; 3 / 13022900 / CHT85A and B

Year 2: 1 / 13022500 / CHT13A and B; 3 / 13022910 / CHT95A and B

Technical Certifications: AHLEI Certified Guest Service

RESTAURANT MANAGEMENT

Learn what it takes to plan, organize, staff, direct and manage a restaurant or food service business. Develop your portfolio with menu planning, profit and loss statement preparation and business plan writing. You will be able to apply these skills directly in the student-run cafe on campus.

Schools: SHS

Grades: 10-12

Credit/Course ID: 1 / 13022400 / CHT16A & CHT16B

PRINCIPLES OF HOSPITALITY AND TOURISM

This course will introduce you to careers in the hospitality industry, with hands-on cooking experiences. We provide Individual and group work activities as we research each area of the industry. You will investigate fast food and full service restaurants, hotels, cruise lines, catering and gourmet take home. You will also be provided the opportunity to gain valuable cooking techniques involving vegetables, egg preparation, meats and starches.

Schools: NHS, SHS, SWHS

Grades: 9-12

Credit/Course ID: 1 / 13022200 / CHT10A & CHT10B

CTED CULINARY ARTS AND CTED PRACTICUM

Students are provided with training and experiences that could lead to employment in the food service industry. Our emphasis is on appropriate work habits, skills, and attitudes in a commercial food service laboratory. Special Education high school students ages 16-22 who have been accepted through the ARD process are eligible for this class. Year 2 must successfully complete year 1 as a prerequisite.

Schools: Landrum

Grades: 9-12

Credit/Course IDs:

Year 1: 2 / 13022600 / CHT41A & CHT41B

Year 2: 2 / 13022700 / CHT42A & CHT42B


**INFORMATION TECHNOLOGY
CLUSTER**
COMPUTER MAINTENANCE

This program will prepare you to take CompTIA's A+ Certification exam. With this certification, you will be ready to go to work in the high-tech and high-paying IT jobs of tomorrow. Through hands-on activities and labs, you will assemble and configure computers, install operating systems, software, and set up/troubleshoot hardware, software and networks.

Schools: Guthrie, NHS

Grades: 9-12

Credit/Course ID: 2 / 13027300 / CIT11A & CIT11B

Technical Certification: CompTIA A+ Certification

CISCO NETWORKING 1

This program will prepare students to take the Cisco CCNA or CCENT Certification exams. With these certifications, you will be ready to go to work in the high-tech and high-paying IT jobs of tomorrow. Through hands-on activities and labs, you will learn how to configure routers and set up small networks using many commercial design and network administrator tools.

Schools: Guthrie

Grades: 10-12

Credit/Course ID: 2 / 13027400 / CIT12A & CIT12B

Technical Certification: CCENT (Cisco Entry Networking Technician)

CISCO NETWORKING 2 | RESEARCH IN IT

In this second year of Cisco Networking, you will gain additional knowledge and experience in preparation of CCNA/CCENT certifications. Successful completion of Cisco Networking 1 is required.

Schools: Guthrie

Grades: 11-12

Credit/Course ID: 2 / 13028000 / CIT82A & CIT82B

Technical Certification: CCNA (Cisco Certified Networking Associate)

COMPUTER TECHNICIAN

Do you think you have a clear understanding of building and repairing a computer or designing and maintaining a network from your earlier computer classes? If so, put that knowledge into action as you apply your knowledge and skills to a variety of settings and problems. Apply with current CT instructor for entry into this class for next year.

Prerequisite: Successful completion of Computer Maintenance

Schools: Guthrie

Grades: 11-12

Credit/Course ID: 2 / 13027500 / CIT81A & CIT81B

DIGITAL INTERACTIVE MEDIA

Join the world of multimedia. Develop technology skills with applications to personal or business situations focusing on web design, video and audio techniques, digital imaging, desktop publishing, presentation management, and career awareness that leads to a successful transition to the workplace and college.

Schools: SWHS

Grades: 10-12

Credit/Course ID: / 13027800 / CIT14A & CIT14B

GEO TECH 1 – GIS AND PROGRAMMING

Data Technicians for the energy industry work directly with geologists, engineers and business managers by providing technical support for oil and gas exploration. Data Techs need proficiency in many technical applications and present the information from these computer languages that can be understood by all involved in the process. This first course blends Geographic Information Systems (transferring GPS data into mapping layouts for things like traffic flow, crime rates and economic development) with basic Computer Programming to begin your journey towards a lucrative career as a Geo Tech.

Schools: Guthrie

Grades: 10-12

Credit/Course ID: 1 / N1302805 / CTIT54 & 1 / 13027600 / CTIT13

GEO TECH 2 – GIS-RASTER / SPATIAL TECHNOLOGY / REMOTE SENSING

Data Technicians for the energy industry work directly with geologists, engineers and business managers by providing technical support for oil and gas exploration. Data Techs need proficiency in many technical applications and present the information from these computer languages that can be understood by all involved in the process. This second course blends Raster Based Geographic Information Systems (transferring data from images and aerial photographs to process data). You will learn skill building in industry, standard geospatial extension software, geospatial tools including global positioning systems (GPS), and continued training in GIS project management and problem solving to begin your journey towards a lucrative career as a Geo Tech.

Schools: Guthrie

Grades: 11-12

Credit/Course ID: 1 / N1302806 / CTIT55 & 1 / N1302807 / CTIT56

WEB TECHNOLOGIES

Through the study of web technologies and design, students learn to make informed decisions and apply the decisions to the field of information technology. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students enhance reading, writing, computing, communication, and critical thinking and apply them to the information technology environment.

Schools: SWHS

Grades: 10-12

Credit/Course ID: / 13027800 / CIT15A & CIT15B


MANUFACTURING CLUSTER
FLEXIBLE MANUFACTURING

Learn what it takes to be successful in metal technology systems. Whether working on your own or with a team of technicians, you will gain experience in sheet metal manufacturing.

Schools: SWHS

Grades: 10-12

Credit/Course ID: 1 / 13032700 / CMF13A & CMF13B

FLEXIBLE MANUFACTURING 2 | ADVANCED

Learn the advanced techniques you will need in metal technology systems. Whether working on your own or with a team of technicians, you will gain experience in sheet metal manufacturing.

Schools: SWHS

Grades: 11-12

Credit/Course ID: 2 / 13032800 / CMF23A & CMF23B

Technical Certification: Welding AWS-D1.1 Certification


MARKETING CLUSTER
RETAILING & E-TAILING

Are you interested in working in the field of marketing? Learn the fundamentals of marketing and the relationship of the marketing process for both goods and services while studying the different kinds of markets, market identification, distribution, market research, advertising and promotion and management.

Schools: SHS, AOC

Grades: 9-12

Credit/Course ID: 1 / 13034500 / CMK14A & CMK14B

SPORTS ENTERTAINMENT MARKETING

On your Mark, Get Set, Go! Sports and Entertainment Marketing focuses on the functions of marketing as it relates to the business of sports. It's not just a game – it's business. You will be given many opportunities to design marketing strategies, select appropriate products and promotional activities for sports and entertainment events and go on field trips. Let the games begin! Will you be ready when the whistle blows?

Schools: SHS, AOC

Grades: 10-12

Credit/Course ID: .5 / 13034600 / CTMK15

Public Services Endorsement

PS EDUCATION & TRAINING CLUSTER

HUMAN GROWTH AND DEVELOPMENT

An introduction to developmental psychology, the course explores the different stages of human life – Prenatal, Infancy, Childhood, Adolescence, Adulthood – and the biological, psychological and social changes occurring in individuals during them. Topics include: theories of development, genetics and development, birth and the neonate, cognitive and brain development, early experience, attachment, motor & language development, social, moral development, aging and death.

Schools: SWHS

Grades: 10-12

Credit/Course ID: 1 / 13014300 / CET11A & CET11B

INSTRUCTIONAL PRACTICES IN EDUCATION

Changing lives in real classrooms could be in your future! If you are ready to teach and get hands-on experience working with children, then this is the course for you. You will be assigned to an off-campus school and will get practical experience working beside a certified teacher. Students have a choice of working with kindergarten through middle school. If you are thinking about a career related to children and or teaching, this is definitely the course for you.

Schools: MHS, NHS, SHS

Grades: 11-12

Credit/Course ID: 2 / 13014400 / CET12A & CET12B

PRACTICUM IN EDUCATION

This field-based internship focuses on child and adolescent development principles as well as principles of effective teaching and training practices under the joint direction and supervision of teacher with knowledge of early childhood, elementary, middle and high school aged students. You will be able to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of classroom teachers, trainers, paraprofessionals, and educational personnel.

Schools: MHS, NHS, SHS

Grade: 12

Credit/Course ID: 2 / 13014500 / CET82A & CET82B

Technical Certification: Educational Aide

PS HEALTH SCIENCE CLUSTER

ANATOMY AND PHYSIOLOGY

(State-Approved Advanced Science Course)

If you are interested in the way the body moves, then Anatomy and Physiology is the class for you. You will discover the structures and functions of the human body and body systems, and will investigate the body's responses to forces, maintenance of homeostasis, electrical interactions, transport systems, and energy processes.

Recommended Prerequisite: Two years of Science

Schools: NHS, MHS, SHS, SWHS, WAIS

Grades: 11 & 12

Credit/Course ID: 1 / 13020600 / SC442A & SC442B

HEALTH SCIENCE | PRINCIPLES

In our ever changing world, one thing is constant – the need for Health Care Providers. The “Baby Boomers” are retiring and the need for new recruits is critical! You will be helping mankind. Sign up for Principles of Health Science to learn about the exciting opportunities in the Health Care Industry. Come, have fun in developing your new vocabulary of Medical Terminology. You will be able to interpret what the health care professionals are really saying.

Schools: MHS, NHS, SHS, SWHS

Grades: 10-11

Credit/Course ID: 1 / 13020200 / CHS10A & CHS10B

HEALTH SCIENCE 2

During the 2nd year of Health Science you will be in awe as you venture into the hospital for observation of real professionals and real patients. There is a thrill of really “being there.” You will learn the importance of confidentiality, compassion, ethic and the vast world of medicine.

Prerequisite: Successful completion of Health Science 1 and Biology with teacher recommendation.

Schools: MHS, NHS, SWHS, SHS

Grades: 11-12

Credit/Course ID: 2 / 13020400 / CHS12A & CHS12B

HEALTH SCIENCE 3 PRACTICUM

During the 3rd year of Health Science you will actually work every day of the week in a hospital. It will be worked into your school schedule.

You will rotate through different departments of the hospital throughout the year. You will get “hands-on experience” using the skills you were taught in Health Science and feel like part of the hospital team!

Prerequisite: Successful completion of Health Science 2 with teacher recommendation

Schools: MHS, NHS, SWHS

Grades: 12

Credit/Course ID: 3 / 13020500 / CHS82A & CHS82B

MEDICAL MICROBIOLOGY/PATHOPHYSIOLOGY

(State-Approved Advanced Science Course)

In Medical Microbiology you will identify the relationships of microorganisms to wellness and disease. You will learn how to prevent diseases by learning the chain of infection, asepsis, and standard precautions. You will get to investigate and find out the differences between pathogenic and nonpathogenic organisms and how they relate to specific diseases, causative agents, and treatment options. While in Pathophysiology you will learn how the disease processes affect the human systems. Emphasis is placed on prevention and treatment of diseases. You will observe the differences between normal and abnormal physiology in a lab setting.

Recommended Prerequisite: Two years of Science

Schools: NHS, MHS, SHS, SWHS, WAIS

Grades: 11 & 12

Credit/Course ID: 1 / 13020700 / SCI712 & SCI722

MEDICAL TERMINOLOGY

This course is designed as an introduction to the medical field. Students develop a working knowledge of the language of medicine. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student's ability to successfully secure employment or pursue advanced education in health care.

Schools: SHS, SWHS

Grades: 9-11

Credit/Course ID: 0.5 / 13020300 / CTHS11

PHARMACY TECHNICIAN PRACTICUM

Interested in the Pharmaceutical field? This is the class for you! You will learn the technical and knowledge base skills and work habits required for an entry level position in the pharmacy field or other related areas. On successful completion of this course and graduation you will have the opportunity to sit for the Pharmacy Technician Certification Exam (PTCE). This capstone course is designed for those students interested in pursuing a Pharmacy Tech certification.

Prerequisite: Successful completion of Health Science - Principles, Biology and either Health Science 2 or Anatomy and Physiology

Schools: Guthrie

Grades: 12

Credit/Course ID: 2 / 13020510 / CHS92A & CHS92

Technical Certifications: Pharmacy Technician (PTCE) and National Sterile Products (IV) Certification

STERILE PROCESSING TECH PRACTICUM

You will learn one of the most critical areas of the hospital in this course. You will learn the technical and knowledge base skills and work habits required for an entry level position in the sterile processing field or other related areas. On successful completion of this course and graduation you can take the Sterile Processing/Distribution Technician exam for certification.

Prerequisite: Successful completion of Health Science - Principles, Biology, and either Health Science 2 or Anatomy and Physiology

Schools: Guthrie

Grades: 12

Credit/Course ID: 2 / 13020510 / CHS93A & CHS93B

Technical Certifications: Sterile Processing/Distribution Technician


**HUMAN SERVICES
CLUSTER**
CHILD DEVELOPMENT

This course provides individuals opportunities to develop knowledge and skills to function effectively in the role of a parent or caregiver. Content stresses parental responsibilities, child guidance techniques, and parents as positive role models. Parenting practices that promote a child's development, health, safety and well-being are taught.

Schools: NHS, SHS

Grades: 10-12

Credit/Course ID: .5 / 13024700 / CTHU15

CHILD GUIDANCE

Enjoy kids? Then get ready for a real experience. This is a "hands-on" course that provides a chance to work with very young children. High school students receive practical experience while working at one of the district's pre-kindergarten centers three days a week. You will work with children in the PreK program between 4-5 years of age.

Schools: SHS, SWHS

Grades: 11-12

Credit/Course ID: 2 / 13024800 / CHU16A & CHU16B

COSMETOLOGY | SALON SKILLS

This program offers hands-on training, amazing guest artists, study trips and a self-paced curriculum focused on competitions, salon skills, and the Texas Cosmetology State Examination. Students are responsible for Texas Department Licensing Registration fee and supplies.

Schools: Guthrie

Grades: 11-12

Credit/Course ID: 2 / 13025200 / CHU19A & CHU19B 1 / 13034400 / CMK13A & CMK13B

COSMETOLOGY 2 | ADVANCED SALON SKILLS

Graduate from high school with your Texas Cosmetology State License! Maximize skills and theory learned in Cosmetology 1 through an intense focus on industry readiness and the Texas Cosmetology State Licensing Examination. Upon successful completion of Cosmetology 2, you will have an opportunity to obtain your Texas Cosmetology State License by passing written and practical examinations to earn your license. You are responsible for State Licensing Examination fees & supplies.

Prerequisite: Successful completion of Cosmetology 1.

Schools: Guthrie

Grades: 12

Credit/Course ID: 3 / 13025300 / CHU29A & CHU29B

Technical Certification: Texas Cosmetology Operators License

DOLLARS AND SENSE

Students will learn basics of money management for personal and family goals. Budgets, credit sources, investment instruments and how to get the most "bang for your buck" will be explored. This course is one of the optional courses that can meet the Academy of Finance requirements.

Schools: NHS, MHS, SHS, AOC

Grades: 9-12

Credit/Course ID: .5 / 13024300 / CTHU11

INTERPERSONAL STUDIES

Examine how the relationships between individuals and family members significantly affect the quality of life. Explore the functions and roles of dating and analyze components of a successful marriage. The students will follow directions and procedures independently and within a group setting to explore careers.

Schools: NHS, SHS

Grades: 10-12

Credit/Course ID: .5 / 13024400 / CTHU12

LIFETIME NUTRITION AND WELLNESS

"What's for Dinner?" Students will learn how to plan and prepare healthy food choices for themselves and their families. Special dietary needs, food safety and sanitation, meal etiquette and career opportunities in food industry are covered. Students prepare a variety of foods during the lab time.

Schools: NHS, SHS, SWHS

Grades: 10-12

Credit/Course ID: .5 / 13024500 / CTHU13

PRINCIPLES OF HUMAN SERVICES

This class touches on topics related to nutrition, early child development, family and community development, personal care services and consumerism. Hands-on projects are emphasized in a lab setting to expose you to the many areas of study you can take in the Human Services cluster.

Schools: NHS, SHS

Grades: 9-10

Credit/Course ID: .5 / 13024200 / CTHU10



LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY CLUSTER

COURT SYSTEMS AND PRACTICES | PRE-LAW

“Order in the Court!” This class is an overview of the federal and state court systems with emphasis on Constitutional law for criminal procedures, as well as civil law. Preparation and delivery of both prosecution and defense legal strategies are explored in a classroom and courtroom environment.

Schools: Guthrie

Grades: 10-12

Credit/Course ID: 2 / 13029600 / CLW12A & CLW12B

FIREFIGHTER 1

Interested in becoming firefighter, this class is for you. This course introduces students to firefighter safety and development. Students will understand Texas Commission on Fire Protection (TCFP) rules and regulations, proper incident reporting and records, the proper use of personal protective equipment, and the principles of fire science. The instructor uses both academic study and applied instruction to achieve measurable results. Students participate in structured, applied learning activities. Students in the course may work towards certification in Fire Science.

Schools: NHS

Grades: 11-12

Credit/Course ID: 2 / 13029900 / CLW15A & CLW15B

FIREFIGHTER 2 / EMT-BASIC

In this 2nd level course you will continue learning what is needed to take the Firefighter 1 Certification test and skills necessary to provide emergency medical care at a basic life support level with an ambulance service. This course is designed for anyone interested in working in public safety, including fire, police, and ambulance operations. The EMT-Basic course provides an introduction to the concepts, knowledge and skills needed by EMTs in the areas of communications, transportation, and record-keeping. Students in the course may work towards certification in Fire Science.

Prerequisite: Firefighter 1

Schools: NHS

Grades: 12

Credit/Course ID: 2 / 1303000 / CLW25A & CLW25B; 1 / N1303015 / CLW55A & CLW55B

FORENSIC SCIENCE

(State-Approved Advanced Science Course)

Connect science to law and find out what it takes to solve crimes. If you like watching CSI and other true crime shows, then this course is for you. Find out what science can and cannot do in crime fighting. Is it real or just TV? You might be surprised!

Recommended Prerequisite: Law Enforcement 1

Prerequisites: Biology and Chemistry

Schools: Guthrie, SWHS

Grades: 11-12

Credit/Course ID: 1 / 13029500 / CTLW50 or CTL50A-CTL50B

LAW ENFORCEMENT

What is the “Thin Blue Line”? Explore the history, organization, and function of local, state, and federal law enforcement. Explore Constitutional law, the U.S. legal system, criminal law, law enforcement terminology and methods, and the classification and elements of crimes.

Schools: Guthrie

Grades: 10-12

Credit/Course ID: 2 / 13029300 / CLW11A & CLW11B

LAW ENFORCEMENT 2

If you liked Law Enforcement 1 and Forensic Science, you can dig deeper into the daily aspects of policing. What does it really mean to protect & serve? Law Enforcement 2 goes deeper into career choices in law enforcement and looks at the day-to-day challenges faced in protecting and serving people. This course includes the ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony.

Prerequisites: Successful completion of Law Enforcement 1

Schools: Guthrie

Grades: 11-12

Credit/Course ID: 2 / 13029400 / CLW21 A & CLW21B

LEGAL RESEARCH AND WRITING

Interested in what happens in the legal field? This course is designed to introduce students to the methods and tools used to conduct legal research to include LexisNexis, learn how to develop and frame legal arguments, produce legal writings such as briefs, memorandums, and other legal documents, study American Constitutional law, and prepare for appellate arguments.

Schools: Guthrie

Grades: 11-12

Credit/Course ID: 1 / N13003014 / CTLW52



NAVY JUNIOR RESERVE OFFICERS TRAINING CORPS

NAVAL SCIENCE 1, 2, 3 & 4

The Navy Junior Reserve Officers Training Corps is a unique program, facilitated by senior Navy instructors, that provides real hands-on leadership and management opportunities unlike any other high school program. The NJROTC core values of honor, courage and commitment instill in the cadets the pride of community service and good citizenship. Opportunities abound in NJROTC. A first-year cadet can expect to be leading a squad by the completion of the first year and eligible to command the entire company of cadets by his/her senior year. Cadets plan, schedule, organize and execute a myriad of program activities to include local, regional and national competitive team activities including drill, marksmanship, physical fitness, orienteering (land navigation) and academics.

The Navy provides all books, equipment and uniforms at no cost to the cadets. Additional educational opportunities exist through attendance at any of the service academies such as the Naval Academy or through Navy ROTC scholarships. There is no military obligation to participate in the program. However, if a military career is desired, cadets completing two years of NJROTC earn a rate increase of one pay grade upon completion of boot camp and cadets completing three years are advanced two pay grades, resulting in a significant increase in basic pay.

Candidates should have a history of good attendance, grades and conduct records. Candidates with less than marginal records will be considered on a case-by-case basis for conditional admission to the program. Please contact the instructors for further information.

Schools: Guthrie

Grades: 9-12

Credit/Course ID:

Year 1: 1 / 03160100 / NS102A, NS102B; 1 / 03820101 / HP134A, HP134B

Year 2: 1 / 03160200 / NS202A, NS202B; 1 / N1290010 / ADNS2A, ADNS2B

Year 3: 2 / 03160300 / NS302A & NS302B

Year 4: 2 / 03160400 / NS402A & NS402B

Technical Certification: American Red Cross First Aid, CPR and AED, Military Pay Grade Increase Upon Enlistment (earned after 2 years)

STEM Endorsement

ST STEM ENGINEERING CLUSTER

ADVANCED BIOTECHNOLOGY

As an Advanced Biotechnology student, you will study the emerging fields of biotechnology such as agricultural, medical, regulatory, and forensics. You will have the opportunity to use sophisticated laboratory equipment, perform statistical analysis, and practice quality-control techniques. In addition, you will conduct laboratory and field investigations using scientific methods during investigations to make informed decisions to solve problems. Advanced Biotechnology students study a variety of topics that include structures and functions of cells, nucleic acids, proteins, and genetics.

Recommended Prerequisites: Biology and Chemistry

Schools: MHS

Grades: 11-12

Credit/Course ID: 1 / 13036400 / CST12A & CST12B

COMPUTER INTEGRATED MANUFACTURING—

Project Lead the Way (PLTW)

Computer Integrated Manufacturing provides students with an understanding of modern manufacturing methods. Topics include robotics and automation, manufacturing processes, computer modeling, rapid prototyping, CNC programming, manufacturing equipment, and flexible manufacturing systems.

Prerequisite: Successful completion of Introduction to Engineering Design

Schools: MHS

Grades: 10-12

Credit/Course ID: 1 / N1303748 / CST57A & CST57B

COMPUTER SCIENCE AND SOFTWARE ENGINEERING—Project Lead the Way (PLTW)

Want to learn how computing and connectivity will transform your world? Then Computer Science and Software Engineering is the class for you! This class covers the College Board's new CS Principles framework. The four main units are: Algorithms, Graphics, and Graphical User Interfaces; The Internet; Raining Reigning Data; and Intelligent Behavior.

Schools: SHS

Grades: 10-12

Credit/Course ID: 1 / N1303768 / CST15A & CST15B

DIGITAL ELECTRONICS —Project Lead the Way (PLTW)

(State-Approved Advanced Mathematics Course)

Digital Electronics is the study of electronic circuits used to process and control digital signals. The major focus of the course is the design process applied to the use of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation. You will analyze, design and build fundamental digital electronic circuits.

Prerequisite: Successful completion of Algebra 1 and Introduction to Engineering Design

Schools: MHS, SHS

Grades: 10-12

Credit/Course ID: 1 / 13037600 / CST53A & CST53B

ENGINEERING MATHEMATICS

(State-Approved Advanced Mathematics Course)

Engineering Mathematics lets you solve and model robotic design problems using a variety of methods and models to represent and analyze problems involving data acquisition, spatial applications, electrical measurement, manufacturing processes, materials engineering, mechanical drives, pneumatics, process control systems, quality control & robotics with computer programming.

Prerequisite: Completion of Algebra 1, Geometry, and concurrent with or after Algebra 2.

Grades: 11-12

Credit/Course ID: 1 / 13036700 / CST60A & CST60B

INTRODUCTION TO ENGINEERING DESIGN—Project Lead the Way (PLTW)

This course teaches you the engineering design process through activities, problems, and projects. Topics include engineering notebooks, design processes, prototyping, technical sketching, measurement and statistics, 3D computer solid modeling, and reverse engineering. This is the prerequisite for all PLTW courses.

Schools: MHS, SHS, SWHS

Grades: 9-12

Credit/Course ID: 1 / N1303742 / CST51A & CST51B

PRINCIPLES OF ENGINEERING—Project Lead the Way (PLTW)

Principles of Engineering introduces you to major concepts studied in a higher education engineering program. Topics include mechanisms, energy, statics, materials, kinematics, and computer control systems. You will develop problem-solving skills and apply your knowledge of math, science, and design to create solutions to various challenges, document your work, and communicate solutions.

Prerequisite: Successful completion of Introduction to Engineering Design and completion or concurrent enrollment in Algebra 2

Schools: MHS, SHS, SWHS

Grades: 10-12

Credit/Course ID: 1 / 13037500 / CST52A & CST52B

ALL CAREER DEVELOPMENT

INTERNSHIPS / CAREER PREP

This course provides opportunities for you to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. You will also identify colleges that support the degree or certification that is required for a successful career in your field. The goal is to prepare students with "soft skills" required for employment and for a fast-changing workplace.

Schools: Guthrie, SHS, SWHS

Grades: 11-12

Credit/Course ID: 2 - 3 / 12701300

Technical Certification: ACT National Career Readiness Work Keys