

**Smithville
High School
Course
Catalog
2023-2024**

CLASS OF 2024-2027

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Non-Discrimination Statement

It is the policy of Smithville Independent School District not to discriminate on the basis of race, color, national origin, sex or handicap in any programs, services or activities as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.

Es norma de Smithville Independent School District de no discriminar por motivos de raza, color, origen nacional, sexo o impedimento, en sus programas, servicios o actividades, tal como lo requieren el Título VI de la Ley de Derechos Civiles de 1964, según enmienda; el Título IX de las Enmiendas en la Educación, de 1972, y la Sección 504 de la Ley de Rehabilitación de 1973, según enmienda.

Accreditation

Smithville High School is accredited by the Texas Education Agency.

*** The contents of the Smithville High School Course Guide are subject to change based on legislative updates, the current fiscal status of the school district, and other factors. Resources used for completion of Course Catalog: www.tea.state.tx.us; www.esc13.net; www.ltidschools.org

Student and Parent Responsibility

It is the responsibility of the student and parent to see that graduation requirements are met. Contact a school counselor for questions about courses, registration, state-required End of Course exams, or other graduation requirements. It is required every student completes a four-year graduation plan and meets annually with a school counselor to select the appropriate courses.

Graduation Program

To receive a diploma, students graduating in 2018 and beyond must complete the requirements of the *Foundation Graduation Plan*, *Foundation Graduation Plan + Endorsement* or the *Distinguished Level of Achievement Graduation Plan* as well as state testing requirements for graduation.

Teacher assignments and hiring are based on the courses requested.

The master class schedule is built to accommodate the classes chosen by the student. Students should choose their courses and alternates carefully and with the advice of their counselor and parents to minimize the need for a change. Alternates will be used if a course does not meet the required minimum of student requests.

Credit

All credit must be completed in grades 9-12, except high school courses satisfactorily completed in grade 8. Only courses approved by the State Board of Education (SBOE) and listed in the *Texas Administrative Code, Chapter 74* may be used to meet graduation requirements. Courses listed in this catalog are SBOE-approved except those noted as Local Credit Only, which are developed to meet identified SISD needs or interests. Local credit and grades are awarded for these courses to document participation. Credit may be earned by satisfactorily completing correspondence courses (limit of 3 courses), online independent study courses, dual credit courses, and/or credit by exam for acceleration and/or recovery.

***** 90% attendance and 70% or greater grade to earn credit*****

**1 credit=full year in class **.5 credit=1 semester in class

High School Credits earned in Junior High School

Students who successfully complete high school credits in junior high school receive high school credit and the credits and grades earned in junior high school are recorded on the high school transcript. The grades for high school credits earned in the junior high school will NOT be included in the student's class rank or grade point average, with the exception of Tier 2 classes (which would include Advanced or Pre AP).

Local Credit Courses: (do not count towards graduation credit requirements)

Duplicate credit course

Office/Teacher Aide

Study Hall

Grade Level Classification

Students are classified according to the number and type of credits they have earned. In order to be promoted, students are required to meet the number of credits listed below and are required to have received credit in all four of their core classes for that particular school year. Students who have fallen behind may be reclassified at semester in certain circumstances with administrative approval.

Freshman: Must have been promoted from the 8th grade

Sophomore: Must have earned 6 credits

Junior: Must have earned 11 credits

Senior: Must have earned 18 credits

Class Load

- Students must be enrolled in a full class load unless they are participating in a work program, taking dual enrollment courses, or have special dispensation from the administration.
- Fifth (5th) year seniors must attend a minimum of four hours during the school day.
- Students entering Grade 9 in 2011 and thereafter must pass STAAR End of Course exams in the following classes: English I, English II, U.S. History, Algebra I, and Biology.

Attendance

It is important to note that poor attendance adversely affects grades. By failing to meet state minimum standards for days in class, students lose credit for the class even if a passing grade is earned. Please refer to the student handbook for additional information.

Exemptions

Students have the opportunity to be exempt from fall and spring semester exams. The criteria for exemptions can vary but typically considers attendance, grades, and discipline. The month before exams students are given forms with criteria for exemption and require parent signatures.

Out of State Transfers

Transfer students from out of state must complete all state graduation requirements to be eligible for a Texas diploma. Requirements not completed when enrolling in Smithville High School may be satisfied by correspondence courses, credit by exam, or completing the course.

Valedictorian and Salutatorian Recognition

In order to compete for the honors of valedictorian and salutatorian, a student must be enrolled at this campus for his/her entire junior and senior years.

Top 10% Requirements

In order to be in the top 10% of your class, you must complete the Foundation Plan with an Endorsement and Distinguished requirements (includes completion of Algebra 2).

Admission Programs

a. Automatic Admission – Top 10%

Students who graduate in the top 10% of their class currently receive automatic admission to most Texas public colleges and universities. The University of Texas is only guaranteeing automatic admission to the top 6% of graduates. Students are responsible for submitting completed applications and taking required tests by deadline dates.

b. Valedictorian Exemption

The top-ranked senior of each Texas public high school is exempt from certain costs for the first two semesters of a Texas public college or university.

Grade Level Classification for Participation in Student Activities

Required credits for UIL eligibility are different from the classification credits. A student in grades 9-12 may participate in extracurricular activities on or off campus at the beginning of the school year only if the student has earned cumulative credits as indicated below:

- Freshman (1st year in high school) Promoted from the 8th grade
- Sophomore (2nd year in high school) 5 credits
- Junior (3rd year in high school) 10 credits
- Senior (4th year in high school) 15 credits

Advanced Placement Courses

The Advanced Placement Program, sponsored by the College Board, offers students an opportunity to take college-level courses in high school. If students take AP exams and score in an acceptable range, advanced placement credit may be awarded upon college entrance. Students should contact directors of admissions at colleges of their choice to ask about specific advanced placement policies. Costs of the exams must be paid for by the student. For further information on how much credit is offered at various schools, visit: <http://www.collegeboard.com/ap/creditpolicy>. All advanced and AP courses are open enrollment courses and all students are encouraged to enroll in courses that prepare them for college or future education. However, in order to be successful it is suggested that students meet the following guidelines:

- Be an identified Gifted and Talented student, **or**
- Transfer from similar courses from another accredited high school, **or**
- Have an overall average of 80 or better the previous year in the previous content related course, **and**
- Passed EOC

Students enrolled in these courses must follow all procedures listed under schedule changes in this catalog. Summer projects may be required and must be completed prior to the beginning of class. Students are responsible for picking up that coursework from the office prior to the end of school.

AP Exams

Students take AP Examinations in May after completing challenging AP courses. SHS currently offers the following AP exams:

| | |
|--------------------------------|--------------|
| AP Computer Science A | AP Chemistry |
| AP Computer Science Principles | AP Physics |
| AP Biology | AP Calculus |

College Admissions Information

The student who plans to attend college after high school graduation should begin early to plan a course of study to assure acceptance by the college or university of his/her choice. The counselors are able to share the information and to help interpret it, but it is the responsibility of the students to seek that help. Once the student has made a definite choice of the schools where he/she is going to apply, it is advisable for the student to keep in contact with the schools' admissions office. This way the student will know well in advance of any changes in entrance requirements. Information about colleges is available on the internet and individual college websites.

College Credit

Earning college credit in high school can be not only empowering but also financially sound. SHS offers several avenues to earn college credit including AP exams, OnRamps courses, and dual credit coursework. Each program has different guidelines and regulations regarding enrollment and transferring of credits. A student can complete his/her high school career and be well on his/her way to a college degree even before he/she graduates.

Correspondence Courses

The district permits high school students to take correspondence courses (only through Texas Tech or the University of Texas) for credit toward high school graduation. Prior approval is necessary for the student to receive credit. Students may earn up to three credits for graduation by correspondence course. (Board Policy EEJC –Local). The grade that a student receives for a correspondence class will be reflected on his/her transcript. Correspondence class grades are NOT included in the GPA. For more information see your counselor or refer to the Texas Tech website at www.dce.ttu.edu.

****Students who complete a correspondence course in a STAAR EOC tested subject are required to take the EOC assessment for that course.**

Dual Credit and Concurrent Enrollment Courses

Smithville High School students may enroll at Austin Community College (ACC) while completing their high school education. Students may earn dual credit (both college and high school credit) for classes that are listed in this course catalog. Students should speak with their counselor to determine which classes are eligible for dual credit. Dual credit courses are considered a part of the student's high school class schedule when taken during their junior or senior year. Dual credit courses are **weighted** appropriately according to the GPA table found in this catalog. Students must meet college readiness criteria in order to enroll at ACC. Students interested in concurrent or dual enrollment must meet ACC concurrent enrollment and regular admission requirements and are responsible for all laboratory fees and textbook expenses. The dual credit course will be entered into the student's schedule and that grade will count toward GPA and class rank.

The concurrent ACC class, one that does not count for high school credit, will not be entered on the student's schedule or transcript nor will it count for GPA. Other conditions and restrictions apply to dual credit enrollment courses. There are no limits to the total number of credits a student may acquire by dual credit courses.

****Students in the Class of 2018 and beyond who take a dual credit course in a STAAR tested subject are required to take the STAAR EOC for that class.**

College Readiness Assessment

College readiness assessments are designed to ensure that all students attending public colleges and universities in Texas have the reading, mathematics, and writing skills necessary to perform effectively in college level coursework.

The TSIA2 will be offered to Juniors during the Spring semester in order to determine college readiness. Students who do not meet the SAT or ACT exemption requirements should take the TSIA2.

- SAT – 480 in Evidence-Based Reading and Writing and 530 in Math
- ACT – 23 Composite, with 19 or higher Math and English
- TSIA2 – 945 Reading, ELAR diagnostic test score of 5 or 6, and an essay score of 5 or higher, 950 on Math

*Waiver for TSIA2 using EOC Staar assessment: English 2=4000+, Algebra 1=4000+ & Algebra 2 with a grade of C or better.

Acceleration of Courses

Any courses taken for acceleration must be approved by the campus principal.

Credit by Exam (CBE)

Smithville ISD permits high school students to take CBE for acceleration and remediation, only through Texas Tech or The University of Texas. There are no limits to the number of credits a student may earn through CBE. Students may take any of the exams available from Texas Tech or The University of Texas. SISD will cover test fees for 2 attempts per course only.

- **CBE for acceleration/No prior instruction** – A student will be permitted to take an examination to earn credit for an academic course for which the student has had no prior instruction. The dates on which examinations are scheduled are listed in the student handbook yearly. Both a fall and spring semester test calendar is available. The passing score required to earn credit on an exam for acceleration is 80 per semester. If you plan on taking an exam, you must register with the central administration office no later than 30 days prior to the published test dates.
- **CBE for remediation/With prior instruction** – A student who has received prior instruction in a course or subject but did not receive credit for that subject and scored at least a 60 in that course, may be permitted by the district to earn credit by passing a credit by exam for the course or a subject. The passing score required to earn credit on an exam for remediation is 70 per semester.
- **CBE for transfer credit/non-accredited or home school** – Students enrolling in SHS from a non-accredited school or home school may take a CBE to receive transfer credit. Documentation of courses taken in non-accredited or home school must be received prior to the administration of the CBE. The grade scored on the CBE will be marked on the student's transcript and credit awarded if the grade is 70% or greater.

****Students who take a CBE for a STAAR EOC tested course will have to take the EOC****

Credit Recovery

SHS uses a computer-based, self-paced program for credit recovery. Depending on the manner in which a student lost credit for a course, he/she may be eligible for this program. See your counselor for more information on credit recovery eligibility. In the event that a student is eligible for credit recovery, a —P (pass) or —F (fail) grade will be given. No numerical grade will be given; however, credit will be granted for any course receiving a —P (pass).

Early Graduation Plans and Categories

All early graduates will complete the requirements for high school graduation according to the graduation plans in place when they entered high school. Students must declare their intent to be an early graduate by completing the early graduation application and satisfying college readiness requirements if college bound. This application requires a parent signature. The following are the categories for early graduates:

- Three year May graduate
- Three and one-half year December graduate

Early Graduates Grade Classification, Senior Privileges and EOC Testing

Three year May graduate:

- He/she will start the third year classified as a junior regardless of the number of credits the student has accumulated. If the student is making successful progress toward completion of all coursework for graduation and has a total of 18 credits at the end of the first semester, the student will be reclassified as a senior. Documentation of completion of graduation requirements must be received on or before the last day of the spring semester.
- No senior privileges will be granted during the first semester. The student will have senior privileges during the second semester only if reclassified as a senior. The student can participate in the May graduation ceremony.
- If the student does not pass all EOC's, the student will not be considered a graduate. This student can be a three year summer graduate if he/she passes all EOC's through the summer EOC testing. If not, the student will return to school in the fall semester as a full time student.

Three and one-half year December graduate:

- He/she will be classified at the beginning of the fourth year according to the total number of credits earned. Documentation of completion of graduation requirements must be received before the first day of the spring semester.
- He/she will have senior privileges during the first semester of the fourth year only if the student is classified a senior when the year starts. The student will not be able to participate in senior activities during the second semester. The student can participate in the graduation ceremony in May following the December graduation.
- If this student does not pass all EOC's, the student will not be considered a graduate. The student will return to school in January as a full time student.

Early Graduates Class Rank and Grade Point Average

Early graduates will NOT be ranked with any graduating class. Early graduates will receive a grade point average according to the grade point procedure used at SHS. Colleges will be notified that early graduates from SHS do NOT receive a ranking. Early graduates will be encouraged to contact the colleges they are planning to attend to find out what procedure the college will use for students that are not ranked with their graduating class.

Special Programs & Services

Section 504 Services

Section 504 of the Rehabilitation Act of 1973 prohibits discrimination and assures that students with disabilities have educational opportunities and benefits equal to those provided to non-disabled students. Eligible students are regarded as having a physical or mental impairment which substantially limits one or more major life activities, including learning, self-care, walking, seeing, hearing, speaking, breathing, working, and performing manual tasks.

Special Education Services

SHS offers a range of services for students receiving special education support and services. *Applied classes* offer students small group instruction in the TEKS. *Inclusion support* offers students extra support for classes taken in the general education setting.

- For students who are served by special education, the ARD committee will determine whether students have met the End of Course requirements for a particular course.

In addition, the following programs address specific student needs:

- **Vocational Adjustment Coordination (On the Job Training Programs):** Serves students, ages 16-22, with disabilities who are in need of vocational and job training prior to graduation.
- **Life Skills Program:** Serves students with more severe disabilities in grades 9-12 in need of specific instruction in life/survival skills, health/ safety skills, community-based instruction, and work adjustment training

Summer School (remedial classes for credit recovery)

Students may attend summer school at any accredited high school during the summer. Students must bring proof of summer credits to the counselors prior to the start of the next school year. A transcript from the school granting credit will be requested and the course will be added to the student's transcript. Summer school courses do NOT count for class rank or GPA. ***The availability of summer school is based on the current fiscal status of the school district.

Gifted and Talented (GT) Program

Identified GT students are served through group and individualized instruction in the advanced and AP classroom. All students who have previously been identified gifted are admitted into the program. Teachers, parents, or students may nominate students for the program. Nominated students will have the option to participate in assessment to determine eligibility for the program according to district guidelines.

Category I and II Off-Campus Physical Education Program

Students who are interested in participating in either the Category I or II Off-Campus Physical Education Program need to pick up an application from either the school counselor, the curriculum department, or access it on the school website. The application must be completed and submitted to the curriculum department prior to the beginning of a semester.

Category I (Olympic/National Level)—Participation and/or competition includes a minimum of 15 hours per week of highly intensive, professional, supervised training. The training facility, instructors, and the activities involved in the program must be certified by the superintendent to be of exceptional quality. Students qualifying and participating at this level may be dismissed from school one hour per day. Students dismissed may not miss any class other than physical education.

Category II—Participation includes a minimum of 5 hours per week at a private or commercially-sponsored agency that provides physical activities which include those certified by the superintendent to be of high quality and well supervised by appropriately trained instructors. Students certified to participate at this level may not be dismissed from any part of the regular school day.

Texas Virtual School Network (TxVSN) Secondary Grade Levels

The Texas Virtual School Network (TxVSN) has been established by the state as one method of distance learning. A student has the option, with certain limitations, to enroll in a course offered through the TxVSN to earn course credit for graduation.

Depending on the TxVSN course in which the student enrolls, the course may be subject to the —no-pass no-play rules. In addition, for students who are enrolled in a TxVSN course for which at the end of course (EOC) assessment is required, **the student must take the corresponding EOC assessment.** If you have questions or wish to make a request that your child be enrolled in a TxVSN course, please contact the campus counselor. A copy of policy EHDE will be distributed to parents of middle and high school students at least once each year. If you do not receive a copy or have questions about the policy, please contact the campus counselor.

GRADE/GPA INFORMATION

- **Grading and Averaging**
 1. Grade Scale: A= 90 – 100 B= 80 – 89 C= 70 – 79 F= Below 70 b) The average of both semesters of a one credit class must be equal to 70 to obtain full credit.
- **GPA Grade Point Average**
 1. Students shall receive grade points on a weighted scale for each course taken
 2. A weighted grade point average shall be computed for each student and class rank will be determined by these grade point averages
 3. The weighted grade point average and class rank will be given to each high school student at the end of the academic year.
 4. The third-nine-week grades shall be used for the final semester in calculating weighted grade point averages and determining class rank for graduating seniors. The weighted grades are assigned based on the degree of difficulty of subject matter completed. ACC & Independent study courses of which a student is concurrently enrolled in during the second semester, will not be calculated in the senior class ranking.
 5. Pass-fail courses (12th grade only-must be approved by counselor and principal), correspondence courses, summer school credits, credit recovery

credits, concurrent ACC college courses and concurrent AP independent study courses and any course taken for local credit shall NOT be included in determining grade point averages. See GPA exempt options procedures and informational overview below.

6. The grades for high school credits earned in the middle school will NOT be included in the student's class rank or grade point average, with the exception of Tier 2 classes (which would include Advanced or Pre AP)
7. GPAs for transfer students will be calculated using the grade weighting standards of Smithville High School
8. In accordance with Board Policy EIC Local beginning with the Class of 2022 Cohort, internet based courses will no longer be excluded from GPA calculations.

GPA-Exempt Options Procedures and Informational Overview 2022-23

Our high school students are encouraged to pursue their areas of interest and special talents to enrich their academic experience. In an effort to enhance these pursuits Smithville HS seniors may request courses and class periods that are GPA-exempt.

What are the available "GPA-exempt" options for SHS seniors 2022-23?

- **Seniors** may utilize up to **two(2)** full year GPA-exempt "options" during their **senior year**.
- **Option 1 - Student Assistant/Aide** - student works under the guidance of SISD employees to gain valuable work and life experiences; opportunities in the school office, library, various school-based programs; see counselor for information, details and an application
- **Option 2 - Late Start or Early Release** - student requests and is approved to arrive one period late or leave one period early to work on individual interests; see counselor for more information, details and an application
- **Option 3 - GPA-Exempt, pass/fail course** - pre-approved Tier 1 course taken by an eligible senior student; the student receives credit and passes the course, however, the grade is not included in the GPA, it is GPA-exempt; this increases opportunities for individual students to pursue their interests; see your counselor for more information, details, and an application

Option 3 Details:

Who is eligible to take a GPA-Exempt course in 2022-23?

- Seniors only; determined by the counselor's office and credits

What courses may be requested and taken GPA-Exempt, "pass/fail"?

A senior may request any **Tier 1 elective course** be taken GPA-Exempt

How are grades handled in the GPA-Exempt course?

Eligible students (Seniors only) who apply, are approved and choose to enroll in a GPA-exempt, “pass/fail” course will receive:

- Numerical grade each grading period on the report card
- Actual numeric grade with a comment or mark indicating “GPA-exempt” on the Academic Achievement Record (transcript).
- Credit for the course(s)
- Exclusion of grade earned from the computation of their GPA

What are the performance standards for the students in these GPA-exempt courses?

- Students are expected to complete all assigned work in a GPA-exempt course including daily assignments, tests and semester exams, unless “exempt” from semester exam.
- Students are required to adhere to all attendance requirements
- Students are expected to be active participants in the class

How will the GPA-Exempt courses affect extracurricular activities/eligibility?

The numerical grades earned in a GPA-exempt course will be used to determine eligibility for participation in all UIL or all school-sponsored activities.

What if a student “drops” an “exempt” course?

Students are expected to complete a full-year course for which a GPA exemption has been requested and granted. In extenuating circumstances, where a student is approved to drop a GPA-exempt course after the first semester is complete, the student will receive the first semester credit as GPA-exempt. However, the originally requested 1.0 GPA exemption is considered to be fully expended and count as one of the GPA-exemption options for the senior student.

How do students enroll in a GPA-Exempt course?

Students interested in taking one of the GPA-Exempt courses should:

- Discuss this option with their parents/guardians
- Set a meeting with their counselor to discuss the details and requirements
- Request the GPA-exempt course option application from your counselor
- Complete and return the signed application to the counselor on or before the 10th day of instruction (August 29th, 2022)
- GPA-Exempt course requests are made for yearlong, 1.0 credit courses.
- Once the senior student makes the decision to take a course as GPA-exempt, the decision is final and cannot be changed; extenuating circumstances may be considered at semester break; see counselor for more details
- Students enrolled in the full-year courses do not need to reapply for the second semester
- Students, including move-in students, who miss the deadline for application for the first semester, may apply for exemption for the second semester if they meet the criteria. Very limited exceptions will be made for the “second semester” of yearlong courses.

GPA-Exempt Course Request Quick View:

- Seniors only
- Maximum of 2 GPA-exempt options may be utilized during your senior year
- Yearlong courses; limited opportunities for extenuating circumstances at semester break
- Completed application submitted to counselor on or before the 10th day of instruction(Aug. 29th, 2023)

If you have any questions, needs for clarification or concerns regarding GPA-Exempt options during your senior year, the application process or the procedures, please contact the high school counselors for more information and a copy of the application.

High School Counselor Contact Information:

Cari Ulrich culrich@smithvilleisd.org 512-237-2451, ext. 6097

Reena Reese rreese@smithvilleisd.org 512-237-2451, ext. 6689

High School Principal Contact Information:

Tucker Copeland tcopeland@smithvilleisd.org 512-237-2451 ext. 6096

GPA for Valedictorian and Salutatorian

- The two highest ranking seniors graduating on either the Foundation with Endorsement or Foundation with Distinguished Achievement program will be valedictorian and salutatorian
- In order to compete for the honors of valedictorian and salutatorian, a student must be enrolled at Smithville High School for his/her entire junior and senior year, starting on the first day of his/her junior year.
- In the case of a tie for either of the top two positions, the tie shall be broken as follows:
 1. The student with the largest number of AP and dual credit courses shall be selected.
 2. If a tie still exists, then the highest average of only the AP and dual credit courses shall be the determining factor.

GPA Table

Students graduating in 2017 and thereafter shall be assigned grade points based on the following chart.

| Grade | Tier I Courses | Tier II Courses | Tier III Courses | Tier III Courses |
|-------|----------------|-----------------|------------------|------------------|
| | | | Dual Credit | On Ramps |
| 100 | 5.0 | 6.0 | | 6.5 |
| 90-99 | 4.0-4.9 | 5.0-5.9 | A=100=6.5 | 5.5-6.4 |
| 80-89 | 3.0-3.9 | 4.0-4.9 | B=89=5.4 | 4.5-5.4 |

| | | | | |
|-------|---------|---------|-----------|---------|
| 70-79 | 2.0-2.9 | 3.0-3.9 | C=79=4.4 | 3.5-4.4 |
| 60-69 | 1.0-1.9 | 2.0-2.9 | D=70=-3.5 | 2.5-3.4 |
| 50-59 | 0.0-0.9 | 1.0-1.9 | | 1.5-2.4 |
| 0-49 | 0 | 0 | | 0 |

*D – is not passing by Texas college standards, however the student will be allowed a 70 to receive high school credit.

*Pass/Fail courses are NOT included in the calculation of the GPA of rank.

Schedule Changes

Regular Courses

Schedule changes will only be made during the first 10 instructional days of a semester. Several elective classes are not available after the first 10 days of the 1st semester. During the 2nd semester students can only request schedule changes for specific classes. Please see the school counselor for the specific courses.

**Students who add classes during this time will be responsible for all make-up work required by the teacher.

Changes for Tier II and Tier III courses

- Students in a Tier II or Tier III class who earn a 75 or below for the first or third nine-week period will be allowed to request a schedule change to a regular level class. Changes will be limited to the beginning of the following nine-week period on a space available basis.
- Students who fail a Tier II or Tier III class for any nine-week period will be removed from the class and placed in a regular level class, if a regular level class is being taught, at the beginning of the following nine-week period. Course stacking and instructional differentiation may be an option for students based on teacher recommendation.
- Students who have been removed or requested a change from a Tier II or Tier III course will not be readmitted to that course for that year.
- Students not completing an entire semester of a Tier II or Tier III class will not receive weighted credit.
- Teacher syllabus, approved by campus principal, will drive student changes and placement decisions.

Other Schedule Changes:

High School Counselors may change student schedules when:

- Students need to repeat a failed course
- Student Requests a Graduation Plan change with signed approval of parent, principal and counselor.

**Students who add classes during this time will be responsible for all make-up work required by the teacher.

Transfer Credit Policy—High School

Course Credit from an Accredited State, National, or International School

SHS grants course credit from any state, national, or international accredited educational institution providing that

- the course credit is recorded on an official transcript of that educational institution
- the course is a recognized credit course in the State of Texas as identified in the official state credited course listing published each year by the Texas Education Association
- The course meets the state of Texas TEKS for the specific course.

For those courses meeting the above three criteria, SHS uses a numerical grade as shown on the educational institution’s official transcript for calculating GPA and class rank except for grades from non-American educational institutions. In addition, SHS shall award weighted credit for the purpose of GPA and class rank for any grade that meets the above three criteria if the educational institution’s official transcript designates the course as honors, Pre-AP, AP, IB, or accelerated. Weighted credit will only be awarded for courses that are offered at SHS at the accelerated level. If the educational institution does not provide a numerical grade, SHS shall assign the following numerical grades for letter grades:

Letter Grade Conversion Table

(A to D with F Grade System)

| | | |
|-------|------|-------|
| A+ 95 | A 92 | A- 90 |
| B+ 87 | B 85 | B- 83 |
| C+ 81 | C 79 | C- 77 |
| D+ 74 | D 72 | D- 70 |
| F 60 | | |

(A to C with F Grade System)

| | | |
|-------|------|-------|
| A+ 97 | A 95 | A- 90 |
| B+ 87 | B 85 | B- 80 |
| C+ 77 | C 75 | C- 70 |
| F 60 | | |

Endorsement Graduation Plan Overview

(Class of 2018+)

This section of the Course Guide is designed to provide you with information about the new Texas Foundation Endorsement Graduation Plan which takes effect for the Class of 2018 and beyond. The purpose of the State’s change to the new graduation plan is to provide students greater flexibility and choice in the selection of courses that will best prepare them for their individual postsecondary goals. Employers and leaders in the Texas workforce have encouraged career oriented training and certification at the high school level to help meet their growing demands.

Starting in the spring of 2014, all eighth-graders will be required to choose one of five endorsements as outlined in the new graduation plan. The five endorsement areas are:

- **Multidisciplinary Studies**
- **Science, Technology, Engineering and Mathematics (STEM)**
- **Business and Industry**
- **Arts and Humanities**
- **Public Services**

The earned Endorsement will be reflected on the student's official transcript at the completion of their high school career.

How are the Endorsements organized?

As you use this guide, you will see recommended Pathways (or coherent sequences of courses) organized by career clusters within each of the Endorsements. A career cluster is a grouping of occupations and broad industries based on commonalities. These career clusters are part of the Achieve Texas College and Career Initiative that is designed to help students (and their parents) make informed education decisions. It is based on the idea that the education of the 21st century should combine rigorous academics with relevant career education. When schools integrate academic and technical education, students can see the "relevance" of what they are learning. The Pathways allow students to study a particular field in depth and help to facilitate a seamless transition from secondary to postsecondary opportunities.

Course and Graduation Program Selection

Because entrance requirements vary greatly among colleges and universities, college-bound students should investigate the schools they are considering before selecting high school courses and graduation programs. And, as employers have varying requirements, career-bound students should select high school courses and graduation plans to meet future employment objectives.

Four Year Plan

Upon entering 9th grade, a student is automatically set to earn the multidisciplinary endorsement. Other endorsements may be earned or declared per student request. Each year a student should select courses that are included in his/her four-year plan, as developed with the counselor. Any adjustments to be made regarding the four-year plan must be done in conjunction with the guidance office. The student should carefully consider college admission requirements as he/she selects courses. Colleges/Universities focus on the course selection and rigor of content and do not require an endorsement. Any questions regarding college admissions should be directed to a counselor.

Required Parent Conference: Please join your 8th grade student and a SHS representative to discuss high school course selection and your child's individual Endorsement Graduation Plan as it relates to his/her unique interests and future career goals. This meeting benefits your child's school success and also satisfies state law, which requires an individual meeting with each parent about the new Endorsement Graduation Plan. You will receive notification of the

parent meetings in early August. The meetings will be held prior to the first day of the school year. Your involvement in the process of helping your student prepare for high school is critical. We hope this Endorsement Guide will be a valuable resource in this exciting journey!

House Bill 5 Graduation Plans

Distinguished level of Achievement Graduation Plan-26 credits

Students must fulfill the Graduation requirements of at least 1 of the 5 endorsements below and successfully complete Algebra 2.

Foundation + Endorsement Graduation Plan-26 credits

| STEM | Business & Industry | Public Service | Arts & Humanities | Multidisciplinary |
|---|---|---|---|---|
| 4 English -ELA 1, 2, 3 & one adv. Eng. | 4 English -ELA 1, 2, 3 & one adv. Eng. | 4 English -ELA 1, 2, 3 & one adv. Eng. | 4 English -ELA 1, 2, 3 & one adv. Eng. | 4 English -ELA 1, 2, 3 & one adv. Eng. |
| 4 Math -Alg 1, Geometry, Algebra 2 & one adv. math | 4 Math -Alg 1, Geometry, Algebra 2 & one adv. math | 4 Math -Alg 1, Geometry, Algebra 2 & one adv. math | 4 Math -Alg 1, Geometry, Algebra 2 & one adv. math | 4 Math -Alg 1, Geometry, Algebra 2 & one adv. math |
| 4 Science -Biology, Chemistry, Physics & one adv. science | 4 Science -Biology, Chemistry, Physics & one adv. science | 4 Science -Biology, Chemistry, Physics & one adv. science | 4 Science -Biology, Chemistry, Physics & one adv. science | 4 Science -Biology, Chemistry, Physics & one adv. science |
| 3 Social studies -W. Geography or W. History, US History, Govt/Eco | 3 Social studies -W. Geography or W. History, US History, Govt/Eco | 3 Social studies -W. Geography or W. History, US History, Govt/Eco | 4 Social studies -W. Geography or W. History, US History, Govt/Eco | 3 Social studies -W. Geography or W. History, US History, Govt/Eco |
| 2 LOTE -Language other than English | 2 LOTE -Language other than English | 2 LOTE -Language other than English | 2 LOTE -Language other than English | 2 LOTE -Language other than English |
| 1 Physical Ed. | 1 Physical Ed. | 1 Physical Ed. | 1 Physical Ed. | 1 Physical Ed. |
| 1 Fine Art | 1 Fine Art | 1 Fine Art | 1 Fine Art | 1 Fine Art |
| 4 Electives in STEM path | 4 Electives in Bus/Industry path | 4 Electives in Public service path | 4 Electives in Arts & Humanities path | 4 Electives in multidisciplinary path |
| 3 additional electives | 3 additional electives | 3 additional electives | 3 additional electives | 3 additional electives |

Foundation Graduation Plan-22 credits

Required Assessments:

Student may only declare Foundation Plan after sophomore year

Staar EOC: English1, Algebra 1, Biology, English 2, US History

| | |
|------------------|----------------|
| 4 English | 2 LOTE |
| 3 Math | 1 Physical Ed. |
| 3 Science | 1 Fine Art |
| 3 Social Studies | 5 Electives |

Performance Acknowledgements:

Outstanding performance:

Dual credit coursework; bilingualism/biliteracy, AP, PSAT, SAT, AT-plan or ACT

Certification:

Nationally or internationally recognized business or industry certification or license

Programs of Study/Pathways available at Smithville High School:

Programs of study do not replace endorsements. Programs of study should support the completion of an endorsement.

| Endorsement | Sequence or Pathway | Level 1 Courses | Level 2 Courses | Level 3 Courses | Level 4 Courses |
|--|--------------------------------------|--|--|---|---|
| Business & Industry | Culinary Arts | Introduction to Culinary Arts | Culinary Arts | Advanced Culinary Arts | Practicum in Culinary Arts |
| Business & Industry | Carpentry | Principles of Construction | Construction Technology I | Construction Technology II | Practicum in Construction Technology |
| Business & Industry | Animal Science | Principles of AFNR | Small animal management & Equine science | Livestock Production | Advanced Animal Science |
| Business & Industry | Applied Agricultural Engineering | Principles of AFNR | Agricultural Mechanics and Metal Technologies | Agricultural Structures Design and Fabrications | Practicum in Agriculture, Food, and Natural Resources |
| Business & Industry (phasing out) | BUS | Principles of Business, Marketing, and Finance | Sports and Entertainment Marketing Virtual Business | Retail Management | Practicum in Entrepreneurship |
| STEM | Programming and Software Development | Fundamentals of Computer Science | AP Computer Science Principles | AP Computer Science A | Practicum in Computer science & Programming |
| STEM | Cybersecurity | Fundamentals of Computer Science | AP Computer Science Principles | AP Computer Science A | Cybersecurity Capstone |
| STEM | Engineering | Engineering Essentials | Manufacturing Engineering Technology 1 | TBD | TBD |
| PUBLIC SERVICE | Nursing Science | Principles of Health Science | Medical Terminology | NS-Anatomy and Physiology | Practicum in Health Science |
| ARTS & HUMANITIES | Visual and Performing Arts | Band 1 Th Arts 1 Th Tech 1 Art 1 | Band 2 Th Arts 2 Th Tech 2 Art 2 | Band 3 Th Arts 3 Th Tech 3 Art 3 | Band 4 Th Arts 4 Th Tech 4 Art 4 |

COURSE OFFERINGS 2023-2024

ENGLISH LANGUAGE ARTS

ENGLISH I (0101) Grade 9 Credit 1.0 Tier I This skills-based course will ensure student success across a wide range of literature and composition. This course reinforces and extends previous knowledge by developing an appreciation for different literary genres, developing an appreciation and understanding of the structure of English grammar, improving vocabulary using context clues, developing skills in written and oral expression, and improving organizational skills.

ENGLISH I ADVANCED (0105) Grade 9 Credit 1.0 Tier II This course is designed for students whose performance, motivation, and abilities significantly exceed standards for English I. This course includes independent reading and research in areas of literature, development of higher level critical thinking skills, and the use of the writing process to compose various forms of discourse for a variety of audiences and purposes. Course requirements will also include extensive vocabulary development and literary analysis through in-depth studies of major works. Students must be prepared to devote considerable time to independent readings and outside research projects. Summer and outside-of-class readings will be a very necessary component of the class. ******Students will receive their Summer/Entrance outside-of-class readings when they register for the class. There will be no late grades for this assignment******

ENGLISH II (0102) Grade 10 Credit 1.0 Tier I This skills-based course is designed for student success across a wide range of literature and composition. This course reinforces and extends previous knowledge for the STAAR English II EOC by developing an appreciation for different literary genres, developing an appreciation and understanding of the structure of English grammar, improving vocabulary using context clues, developing skills in written and oral expression, and improving organizational skills.

ENGLISH II ADVANCED (0106) Grade 10 Credit 1.0 Tier II This course places emphasis on the acquisition of college preparatory vocabulary, the ability to read independently and critically, and the writing of analytical essays. Students are expected to enter this course with a mastery of English grammar and usage as well as a passing score on the STAAR English I EOC. Time is not spent on the basics of writing, but on the development of more sophistication in student writing. Also, required readings along with analysis activities outside of class are expected. A major research project is also assigned in this class. ******Students will receive their Summer/Entrance outside-of-class readings when they register for the class. There will be no late grades for this assignment******

ENGLISH III (0103) Grade 11 Credit 1.0 Tier I English III is structured to improve and refine the communication skills of students through reading, writing, speaking, and listening activities. Critical thinking skills will be developed through the analysis of a variety of literary genres. An emphasis is placed on writing well-crafted papers, including a research project. Business writing, vocabulary development, spelling, and mechanical correctness are stressed.

ENGLISH III DUAL CREDIT via ACC (0111) Grade 11 Prerequisite: College Readiness in Reading/Writing Credit 1.0 Tier III Students interested in pursuing this option must meet with their counselor to determine eligibility for the dual credit class. Students are responsible for registering

for this class via ACC's online registration process. ***This course will be asynchronous provided by ACC. Student's will be responsible for attending meetings and completing assignments on their own. There will not be a classroom available at the high school. Transportation or computers will not be provided, this will be the responsibility of the student.

ENGLISH IV (0104) Grade 12 Credit 1.0 Tier I English IV continues to reinforce skills, knowledge and attitudes for effective communication in all language processes: reading, writing, speaking, listening and thinking. Instruction emphasizes an application of previously learned concepts and skills in writing, language, literature and reading. These areas are integrated throughout the two semesters of the yearlong course. Writing instruction builds from paragraph structure to multi-paragraph composition to a major research paper. The course will also utilize the integration of college-level vocabulary and SAT, ACT, and TSI test preparation.

ENGLISH IV DUAL CREDIT via ACC (0111) Grade 12 Prerequisite: College Readiness in Reading/Writing Credit 1.0 Tier III Students interested in pursuing this option must meet with their counselor to determine eligibility for the dual credit class. Students are responsible for registering for this class via ACC's online registration process. ***This course will be asynchronous provided by ACC. Student's will be responsible for attending meetings and completing assignments on their own. There will not be a classroom available at the high school. Transportation or computers will not be provided, this will be the responsibility of the student.

MATHEMATICS

ALGEBRA I (0302) Grade 9-12 Credit 1.0 Tier I First year algebra is a study of the structure of algebra including sets, linear equations, inequalities and graphs. The system of real numbers is built step by step from the natural number system. Functions, variations and quadratic equations are introduced in this course.

GEOMETRY(0304) Grade 9-12 Prerequisite: Algebra 1 Credit 1.0 Tier I This course includes a study of plane, solid and coordinate geometries. Logic, geometric proof, spatial reasoning and application with basic skills from Algebra are stressed.

GEOMETRY ADVANCED (0307) Grade 9-12 Prerequisite: Algebra 1 Credit 1.0 Tier II This course will be a more rigorous study of geometry. Students will be required to solve problems using higher level thinking skills than those students who are enrolled in regular geometry.

ALGEBRAIC REASONING (0313) Grade 10-12 Prerequisite: Successful completion of Algebra 1 Credit 1.0 Tier I This course is a bridge between Algebra I and Algebra 2. Students will review and explore more deeply the foundations learned in Algebra I such as functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build workforce and college readiness.

ALGEBRA II (0305) Grade 10-12 Prerequisite: Successful completion of Algebra 1 Credit 1.0 Tier I Second year Algebra is a study of the fundamental properties and operations, signed numbers,

algebraic expressions and sentences, relations and functions, exponents, irrational numbers, logarithms, determinants and matrices, systems of equations, functions & inverses. Sequences, series and progressions may also be included in this course.

COLLEGE ALGEBRA II On Ramps (0326) Grade 10-12 Prerequisite: Successful completion of Algebra 1 & Geometry Credit 1.0 Tier II for the class of 2024. Tier III for the class of 2025 and beyond. In this course, students deepen their critical thinking skills and develop their ability to persist through challenges as they explore function families: Linear, Absolute Value, Quadratic, Polynomial, Radical, Rational, Exponential, and Logarithmic. Students analyze data algebraically and with technology while developing their knowledge of properties of functions, matrices and systems of equations, and complex numbers. Students will experience a high-quality curriculum designed by the faculty at The University of Texas at Austin. The pedagogy of the course, Inquiry-Based Learning, encourages students to take an active role in the construction of their learning. This learning will be accomplished by abstraction, generalization, problem-solving, and modeling.

FINANCIAL MATHEMATICS (0314) Grade 11-12 Credit 1.0 Tier I

Financial Mathematics is a course about personal money management. Students will apply critical thinking skills, analyze personal financial decisions based upon the current and projected economic factors. Math and calculations related to world experiences include some of the following: net pay, income taxes, calculate mortgage payment, property taxes, mortgage insurance, closing costs, interest costs, etc. ***This class requires essay writing*****

PRE-CALCULUS ADV (0309) Grade 11-12 Prerequisite: Successful completion of Algebra 1, Geometry and Algebra 2 Credit 1.0 Tier II This course is a more rigorous study of functional relationships with emphasis on polynomial, rational, exponential, and radical and trigonometric functions. Students will be required to use higher level thinking skills than those enrolled in Pre-Calculus. The course requires the use of a graphing utility for homework, for class work, and for testing. Geometry concepts and Algebra skills are used throughout the course. Algebra II with at least a B average is advised for success. Advanced pre-calculus is recommended for students who intend to take calculus.

PRE-CALCULUS On-Ramps (0311) Grade 11-12 Prerequisite: Successful completion of Algebra 1, Geometry and Algebra 2 Credit 1.0 Tier III Using a creative and connected approach, students deepen and extend their knowledge of functions, graphs, and equations from their high school algebra and geometry courses so they can successfully work with the concepts in a rigorous university-level calculus course. This course is designed to push students well beyond —drill and kill exercises, emphasizing conceptual understanding of mathematical definitions and developing logical arguments with their peers. This course may be used to fulfill the mathematics component of the university core curriculum and addresses the following three core objectives established by the Texas Higher Education Coordinating Board: communication skills, critical thinking skills, and empirical and quantitative skills.

CALCULUS-AP (0310) Grade 12 Credit 1.0 Tier III This course is offered to students who exhibit diligence and excellence in the study of all high school courses. Topics include limits, continuity, differentiation, integration and transcendental functions. ***Students taking this class may***

receive college credit by taking the AP Exam and passing with a high enough standard. Students should expect a college level curriculum and workload. A summer project may be required. Calculus is recommended for college bound students interested in engineering and medicine.

SCIENCE

INTEGRATED PHYSICS AND CHEMISTRY (IPC) (0204) Grade 9 Prerequisite: Administrative Placement/Teacher recommendation Credit 1.0 Tier I In IPC, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical-thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: motion, waves, energy transformation, properties of matter and changes in matter and solution chemistry.

BIOLOGY (0202) Grade 9-10 Credit 1.0 Tier I This is a general study of living things. Studies of cell biology, genetics, zoology, botany and human biology are included. The use of the scientific method in gathering and processing data is emphasized especially regarding living organisms, their life processes, and their relationship to each other and their environment.

BIOLOGY PRE-AP (0221) Grade 9-10 Credit 1.0 Tier II This course follows the same curriculum as Biology, but centers on higher order thinking skills while studying all biology, genetics, zoology and botany.

AP BIOLOGY (0226) Grade 11-12 Credit 1.0 Tier III Biology AP is an inquiry class into biological themes. Students will have outside readings, research and experiments. Biology AP will evaluate scientific research and technology. Topics will include cytology, genetics, evolution, microbiology and comparative anatomy and physiology. Students will do labs that include DNA extractions, electrophoresis, drosophila studies, plant propagation and mammal dissection. ***Students taking this class may receive college credit by taking the AP Exam and passing with a high enough standard. Students should expect a college level curriculum and workload.***

CHEMISTRY (0203) Grade 10-11 Credit 1.0 Tier I This course is designed for students who want to learn more about chemistry in the world around us and for students who want to learn about the properties and behavior of chemical reactions.

CHEMISTRY PRE-AP (0223) Grade 10-11 Credit 1.0 Tier II This course follows the same curriculum as Chemistry, but centers on higher order thinking skills while studying the properties and behavior of chemical reactions. This class is recommended for college bound students.

AP CHEMISTRY (0228) Grade 11-12 Credit 1.0 Tier III AP Chemistry is an introductory college-level chemistry course. Students cultivate their understanding of chemistry through inquiry-based lab investigations as they explore the four Big Ideas: scale, proportion, and quantity; structure and properties of substances; transformations; and energy.

PHYSICS (0213) Grade 11-12 Credit 1.0 Tier I This course will include a study of force, motion, heat, sound, light, electricity and nuclear reactions. Scientific methods of

problem solving and data analysis are emphasized.

AP PHYSICS (0215) Grade 11-12 Credit 1.0 Tier III AP Physics is an algebra-based, introductory college-level physics course. Physics Pre-AP course 0214 is a prerequisite. Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on, inquiry-based laboratory work as they explore concepts like systems, fields, force interactions, change, conservation, and waves.

ANATOMY AND PHYSIOLOGY OF HUMAN SYSTEMS (0229) Grade 11-12 Credit 1.0 Tier I In the Anatomy and Physiology of Human Systems course students conduct in-depth investigations of anatomy and physiology of human systems including circulatory, nervous, endocrine, and respiratory systems. Students will learn environmental factors that affect the body and how the body maintains homeostasis.

FORENSICS (0232) Grade 11-12 Credit 1.0 Tier I. Forensic Science is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory.

SOCIAL STUDIES

WORLD GEOGRAPHY (0403) Grade 9-12 Credit 1.0 Tier I This course is a general study of geography of the world. This includes the study of the nature of geography, physical setting of the earth, interaction of physical environments and urban analysis.

WORLD GEOGRAPHY ADVANCED (0413) Grade 9-12 Credit 1.0 Tier II An advanced study of geography of the world that includes: the nature of geography, physical setting of the earth, human geography and a close up study of the continents. Solid reading and writing skills are a prerequisite for this course. Students enrolling in this course will be expected to complete a summer assignment related to geography. ******* Students will receive their Summer/Entrance outside-of-class readings when they register for the class. There will be no late grades for this assignment*******

WORLD HISTORY (0402) Grade 10 Credit 1.0 Tier I This course is a general review of World History from prehistoric times through modern times.

WORLD HISTORY ADVANCED (0411) Grade 10 Credit 1.0 Tier II This course is a general overview of World History from prehistoric through modern times, but with more rigorous coursework. Solid reading and writing skills are a prerequisite for this course. Students enrolling in this course will be expected to complete a summer assignment related to history. ******* Students will receive their Summer/Entrance outside-of-class readings when they register for the class. There will be no late grades for this assignment*******

U. S. HISTORY SINCE RECONSTRUCTION (0401) Grade 11 Credit 1.0 Tier I This course is a general review of American History from the Reconstruction period (1877) to modern times; however a brief review of early U.S. history will also be included. Historical content focuses on the political, economic, and social events, and issues related to industrialization and urbanization, major wars, domestic and foreign policies.

U.S. HISTORY DUAL CREDIT via ACC (0415) Grade 11 Prerequisite: College Readiness in Reading/Writing Credit 1.0 Tier III

Students interested in pursuing this option must meet with their counselor to determine eligibility for the dual credit class. Students are responsible for registering for this class via ACC's online registration process. **Students will be required to take the STAAR US History End of Course Exam.** ***This course will be asynchronous provided by ACC. Student's will be responsible for attending meetings and completing assignments on their own. There will not be a classroom available at the high school. Transportation or computers will not be provided, this will be the responsibility of the student.

U.S. GOVERNMENT (0404) Grade 12 Credit .5 Tier I

This class is a comprehensive study of our national, state, and local governments. This course will be paired with economics.

U.S. GOVERNMENT DUAL CREDIT via ACC (0416) Grade 12 Prerequisite: College Readiness in Reading/Writing Credit .5 Tier III

Students interested in pursuing this option must meet with their counselor to determine eligibility for the dual credit class. Students are responsible for registering for this class via ACC's online registration process. ***This course will be asynchronous provided by ACC. Student's will be responsible for attending meetings and completing assignments on their own. There will not be a classroom available at the high school. Transportation or computers will not be provided, this will be the responsibility of the student.

ECONOMICS (0405) Grade 12 Credit .5 Tier I This class is a study of the basic principles of production, distribution, and consumption of wealth and income, with emphasis on the free enterprise system.

ECONOMICS DUAL CREDIT via ACC (0417) Grade 12 Prerequisite: College Readiness in Math Credit .5 Tier III

Students interested in pursuing this option must meet with their counselor to determine eligibility for the dual credit class. Students are responsible for registering for this class via ACC's online registration process. ***This course will be asynchronous provided by ACC. Student's will be responsible for attending meetings and completing assignments on their own. There will not be a classroom available at the high school. Transportation or computers will not be provided, this will be the responsibility of the student.

LANGUAGE OTHER THAN ENGLISH (LOTE)

SPANISH I (0500) Grade 9-12 Credit 1.0 Tier I Students will develop skills and concepts in listening, speaking, reading, and writing Spanish. The course will provide experiences that will result in the knowledge and awareness of the various Spanish-speaking cultures. In addition to the social aspects of the study of language, the study of linguistics, and the utilization of skills as

integral components of that study will result in students making generalizations and arriving at interrelationships among languages.

SPANISH II (0501) Grade 9-12 Credit 1.0 Tier I This course naturally lends itself to the expansion and reinforcement of the skills, concepts, impressions, and experiences for the essential outcomes presented in the introductory course. There is a major emphasis on the active application of oral proficiency, listening, speaking, reading, and writing skills.

SPANISH III (0503) Grade 9-12 Credit 1.0 Tier I The benefits of proficiency in a second language will be explored as preparation for the student's entry into college and for the global realities of our world. Students will enrich their language skills and experiences by the in-depth study of advanced grammar, Spanish-speaking societies and cultures, their literature, and their histories. Included in the curriculum to broaden the student's spectrum of knowledge will be a concurrent study of current events as seen from the perspective of the Spanish-speaking world.

PHYSICAL EDUCATION

Grade 9-12 Credit 1.0 Tier I

PE 1 (0633) PE 2 (0634) PE 3 (0635) PE 4 (0636)

ATHLETICS

TIGER ATHLETICS I Grade 9 (0610)

TIGER ATHLETICS II (0611) III (0612) IV (0613) Grade 10-12

Prerequisite: Approval of the Athletic Director Credit 1.0 Tier I Students participate in U.I.L. Varsity, Jr. Varsity, and ninth grade competition.

LADY TIGER ATHLETICS I Grade 9 (0619)

LADY TIGER ATHLETICS II (0621) III (0623) IV (0624) Grade 10-12

Prerequisite: Approval of the Women's Coordinator Credit 1.0 Tier I Students participate in U.I.L. Varsity, Jr. Varsity, and ninth grade competition.

FINE ARTS

ART I (0720) Grade 9-10 Credit 1.0 Tier I This course covers four basic strands: perception, creative expression/performance, historical and cultural heritage and critical evaluation. By analyzing artistic styles and historical periods, students develop respect for the traditions and contributions of diverse cultures while experimenting with different media. Students should be in either grade 9 or 10 to enroll in this class. In the event that there are more requests than available seats in Art I, art teachers will be consulted to select student placement.

ART II (0721) Grade 10-12 Credit 1.0 Tier I This course covers four basic strands: perception, creative expression/performance, historical and cultural heritage and critical evaluation. Art II is a detailed study of the different materials available to the artist and the techniques involved in combination to achieve special effect.

ART III (0722) Grade 11-12 Credit 1.0 Tier I Art III is a study of awareness and sensitivity to natural and man-made environments, inventive and imaginative expression through art materials and

tools, the understanding and appreciation of self and others through art culture and heritage, and aesthetic growth through visual discrimination and judgment. Each student will be expected to create artwork to be entered into various competitions.

ART IV (0723) Grade 12 Credit 1.0 Tier I Art IV is a further development of the exploration of the elements and principles of art, and experimentation with a variety of art media as related to the theories of creative development and/or appreciation of a variety of visual art forms. Student projects will be subject to portfolio review. A pre-AP portfolio should be the end result. Each student will be expected to create artwork to be entered into various competitions.

BAND I (0701), BAND II (0702), BAND III (0703), BAND IV (0704) Grade 9-12 Prerequisite: Approval of Band Director Credit 1.0 Tier I Band is a performing group composed of 9th-12th grade students. This course is designed for those students who have achieved a sufficient mastery of music fundamentals. The class emphasizes public performance at marching, concert, and contest events; participation is mandatory. Students will develop proper instrumental techniques on a specific music instrument.

APPLIED MUSIC (0705) Grade 10-12 Prerequisite: Approval of Band Director Credit 1.0 Tier I Applied music provides advanced band students with the opportunity to further refine their musical skills. Students will be expected to fine tune competition pieces and receive feedback from the director.

THEATER ARTS I (0710) Grade 9-12 Credit 1.0 Tier I Theater Arts I students begin a practical study of the four basic strands of theater: perception, creative expression/performance, historical and cultural heritage, and critical evaluation. Learn basic acting skills through pantomime, improvisation, monolog, scenes and class plays.

THEATER ARTS II (0711), THEATER III (0712), THEATER IV (0714) Grade 10 – 12 Credit 1.0 Tier I Advanced theater courses extend the study of the four basic strands of theater: perception, creative expression/performance, historical and cultural heritage, and critical evaluation. Learn advanced acting skills through pantomime, improvisation, monolog, scenes and class plays.

THEATER PRODUCTIONS I (0707) , II (0708), III (0709), IV (0714) Grade 9-12 Prerequisite: Theater Director Approval Credit 1.0 Tier I *AFTER SCHOOL PARTICIPATION REQUIRED***** This class IS the Tiger Theater Troupe. You must be in this course to be in any after school productions. Students will attend ALL after school rehearsals and performances. Students will compete in the annual U.I.L. one act play competition. Students must meet with Mr. Hensley over the summer to review the Tiger Theater Troupe handbook and after school calendars. ***This course requires as much of your time after school as band or athletics.* **

TECHNICAL THEATER I (0715) Grade 9-12 Credit 1.0 Tier I This course deals with the non-acting elements of live theater including development and application of skills and techniques in basic design, construction, and operation skills for stage lighting, sound, costume, make-up, and scenic design.

TECHNICAL THEATER II (0716) Grade 10-12 Credit 1.0 Tier I This course is a continuation of Technical Theater I. This course deals with the non-acting elements of live theater including development and application of skills and techniques in basic design, construction, and operation skills for stage lighting, sound, costume, make-up, and scenic design.

SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

FUNDAMENTALS OF COMPUTER SCIENCE (0749) Grade 9-12 Credit 1.0 Tier I
Fundamentals of Computer Science is intended as a first course for those students just beginning the study of computer science. Students will use computer science concepts to access, analyze and evaluate information needed to solve problems and foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems.

AP COMPUTER SCIENCE PRINCIPLES (0752) Grade 10-12 Credit 1.0 Tier III Prerequisite: Algebra 1. Students cultivate their understanding of computer science through working with data, collaborating to solve problems, and developing computer programs as they explore concepts like creativity, abstraction, data and information, algorithms, programming, the internet, and the global impact of computing.

AP COMPUTER SCIENCE A (0751 & 0753) Grade 11-12 Credit 2.0 Tier III Pre requisite: AP Computer Science Principles. AP Computer Science A is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures. This course gives 1 credit for a 4th upper level math credit.

PRACTICUM IN COMPUTER SCIENCE/STEM (0754) Grade 12 Credit 2.0 Tier II Prerequisite Algebra 1 & Geometry Practicum in STEM is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

FOUNDATIONS OF CYBERSECURITY (0760) Grade 9-12 Credit 1.0 Tier I In the Foundations of Cybersecurity course, students will develop the knowledge and skills needed to explore fundamental concepts related to the ethics, laws, and operations of cybersecurity. Students will examine trends and operations of cyberattacks, threats, and vulnerabilities. Students will review and explore security policies designed to mitigate risks.

ENGINEERING ESSENTIALS (0758) Grade 9-10 Credit 1.0 Tier I The course introduces students to engineering concepts that are applicable across multiple engineering disciplines and empowers them to build technical skills through the use of a variety of engineering tools, such as geographic information systems (GIS), 3-D solid modeling software, and prototyping equipment. Students learn and apply the engineering design process to develop mechanical,

electronic, process, and logistical solutions to relevant problems across a variety of industry sectors, including health care, public service, and product development and manufacturing.

AGRICULTURE, FOOD AND NATURAL RESOURCES

PRINCIPLES OF AGRICULTURE, FOOD AND NATURAL RESOURCES (6103) Grade 9 Credit

1.0 Tier I This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. Students will learn the history of FFA, Parliamentary Procedure, History of Agriculture, breeds of livestock, Plant and Soil Science and basic mechanics. Opportunities will be made available to introduce students to FFA. Membership and raising a project are not required, but recommended.

EQUINE SCIENCE (6114) Grade 10-12 Credit 0.5 Tier I Prerequisite 6103 In Equine Science, students will acquire knowledge and skills related to equine animal systems and the equine industry. Equine Science may address topics related to horses, donkeys, and mules. To prepare for careers in the field of animal science, students must enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. This is a 1 semester course.

SMALL ANIMAL MANAGEMENT (6108) Grade 10-12 Credit 1.0 Tier I Prerequisite 6103 In Small Animal Management, students will acquire knowledge and skills related to small animals and the small animal management industry. Small Animal Management may address topics related to small mammals such as dogs and cats, amphibians, reptiles, and birds. This is a 1 semester course.

LIVESTOCK PRODUCTION (6107) Grade 10-12 Credit 1.0 Tier I Students will acquire knowledge and skills related to livestock and the livestock production industry. Topics addressed may include nutrition, reproduction, health, and genetics for beef cattle, dairy cattle, swine, sheep, goats, and poultry. Students will attain academic skills and knowledge related to animal systems and the workplace along with skills for career opportunities, entry requirements and industry expectations.

Agricultural Laboratory and Field Experience (6207) Grade 10-12 Credit 1.0 Tier I Corequisite: Live Production course. Agricultural Laboratory and Field Experience is designed to provide students a laboratory and/or field experience opportunity. To prepare for careers in agriculture, food, and natural resources, students must acquire knowledge and skills that meet entry requirements and industry expectations. **This is a 2 period class- Livestock Production and Lab**

ADVANCED ANIMAL SCIENCE (6118) Grade 10-12 Credit 1.0 Tier I Prerequisites: Biology & Chemistry or IPC; Alg 1 & Geometry, Livestock production. Students must meet the 40% laboratory & fieldwork requirement. This course is designed to examine the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed for the student to learn about career opportunities, entry requirements, and industry standards in the field of animal systems.

AGRICULTURE MECHANICS & METAL TECHNOLOGIES (6104) Grade 10-12 Credit 1.0

Tier I Prerequisite: Principles of Agricultural, Food and Natural Resource. Agricultural Mechanics & Metal Technology is designed to introduce career opportunities in the agricultural power, structural, and technical systems. Skills to be developed include an understanding of agricultural mechanics as it relates to safety and skills in tool operation, and metalworking techniques. This course will include skills in welding and metal fabrication.

AGRICULTURE EQUIPMENT DESIGN AND FABRICATION (6102) Grade 11-12 Prerequisite:

Agriculture Mechanics & Metal Technologies and/or Teacher Approval Credit 1.0 Tier I This course provides the knowledge and skills and technologies required for employment in metal technology systems. Students will develop knowledge related to career opportunities, requirements, and expectations as well as the development of workplace skills to prepare students for future success. In this course the students will learn the skills to use oxy-fuel cutting and welding equipment, shielded metal arc welding equipment, and plasma arc cutting equipment.

PRACTICUM IN AGRICULTURE (6112) Grade 12 Prerequisite: Agriculture Equipment Design and

Fabrication and/or Teacher Approval Credit 2.0 Tier I This course immerses the student in the welding industry. Students plan, budget, acquire materials and build metal projects. Students also have the opportunity to participate in agriculture mechanics project shows.

ARCHITECTURE AND CONSTRUCTION

PRINCIPLES OF CONSTRUCTION (6124) Grade 9 Credit 1.0 Tier I

This course provides skills training of the core tools of the building trades industries in carpentry, basic cement and brick masonry, and basic electrical and plumbing. Students will have the opportunity to earn the NCCER Construction Core certification.

CONSTRUCTION TECHNOLOGY (6121) Grade 10-11 Credit 2.0 Tier I Prerequisite 6124

This course is designed to provide job-specific training for entry level employment in the construction industry with a focus on carpentry, electrical and plumbing skills.

CONSTRUCTION TECHNOLOGY II (6122) Grade 11-12 Credit 2.0 Tier I Prerequisite 6121

Students use advanced knowledge of design techniques and tools related to the management of architectural and engineering projects. Students gain knowledge and skills needed to enter the workforce as carpenters or building maintenance supervisors, or prepare a foundation toward a postsecondary degree.

PRACTICUM IN CONSTRUCTION (6123) Grade 12 Credit 2.0 Tier I

This is an occupationally specific course designed to provide classroom technical instruction or on- the-job training. Students gain advanced knowledge and skills specific to enter the workforce and/or prepare for a postsecondary degree in construction management, architecture, or engineering.

BUSINESS MARKETING, FINANCE AND SALES

SPORTS & ENTERTAINMENT MARKETING (0818) Grade 10-12 Credit 0.5 Tier I

Sports and Entertainment Marketing will provide students with a thorough understanding of the marketing

concepts and theories that apply to sports and entertainment. The areas this course will cover include basic marketing concepts, publicity, sponsorship, endorsements, licensing, branding, event marketing, promotions, and sports and entertainment marketing strategies. This is a 1 semester course.

VIRTUAL BUSINESS (0835) Grade 10-12 Credit 0.5 Tier I Virtual Business is designed for students to start a virtual business by creating a web presence, conducting online and off-line marketing, examining contracts appropriate for an online business, and demonstrating project-management skills. Students will also demonstrate bookkeeping skills for a virtual business, maintain business records, and understand legal issues associated with a virtual business.

RETAIL MANAGEMENT (0836) Grade 10-12 Credit 1.0 Tier 1 Retail management focuses on the distribution and selling of products to consumers using various vending points such as chain stores, department stores, stand-alone stores, and various online markets. The course highlights the everyday mechanisms necessary to operate a successful retail establishment. The student is taught to evaluate methods for promoting merchandise, supervising employees, handling customer needs, and maintaining inventories.

PRACTICUM IN ENTREPRENEURSHIP (0819) Grade 11-12 Credit 2.0 Tier I Students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students understand the capital required, the return on investment desired and the potential for profit.

NURSING SCIENCE

PRINCIPLES OF HEALTH SCIENCE (2021) Grade 9-10 Credit 1.0 Tier I This course introduces students to the knowledge and skills related to patient care. Focus will be on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development.

MEDICAL TERMINOLOGY (2022) Grade 10-11 credit 1.0 Tier I (Prerequisite 2021) Medical Terminology course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology. EKG and Phlebotomy certificates will also be available for students to earn during this course.

NS-ANATOMY AND PHYSIOLOGY OF HUMAN SYSTEMS (0234) Grade 11-12 Credit 1.0 Tier I The Anatomy and Physiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a

variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. This course is specifically designed for students in the health science pathway.

Practicum in Health Science (2023) Grade 11-12 Credit 1.0 Tier I The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

HOSPITALITY AND TOURISM

INTRODUCTION TO CULINARY ARTS (0863) Grade 9-12 Credit 1.0 Tier I This course for those students interested in culinary careers includes classroom and lab opportunities to develop basic skills in food preparation, presentation, and service techniques. Student chefs will complete the safety and sanitation training required for certification and will operate an on-site restaurant for school employees.

CULINARY ARTS (0858) Grade 10-12 Credit 2.0 Tier I Culinary Arts begins with the fundamentals of cooking and the science of baking and includes management and production skills and techniques. The Culinary Arts program offers students hands-on experience with modern foodservice technology and equipment while offering students the opportunity to master classic cooking techniques, meet and learn from visiting guest chefs.

ADVANCED CULINARY ARTS (0862) Grades 11-12 Credit 2.0 Tier I *Prerequisite required: Culinary Arts 0858****** Advanced Culinary Arts will extend content and enhance skills introduced in Culinary Arts by infusing high-level, industry-driven content to prepare students for success in higher education, certifications and/or immediate employment.

PRACTICUM IN CULINARY ARTS (0860) Grade 12 Credit 2.0 Tier I This course is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual work experiences in culinary career-related fields.

OTHER ELECTIVES

YEARBOOK I (0135) Grade 10-12 Application & Sponsor Approval Credit 1.0 Tier I This course is designed for students who are interested in working on the yearbook. Students in this course will be on the school yearbook staff. The curriculum includes the following: individual and group effort in the production of the yearbook within time constraints and budget limitations; financial responsibility in selling advertising and yearbooks; photography; to go off campus to sell advertisements, and in areas such as photography, yearbook sales, fund raising, etc., some work outside of school hours may be required. This class is the prerequisite for Yearbook Production II. The student demonstrates understanding of the principles of publishing through design using available technology.

YEARBOOK II (0136) Grade 11-12 Sponsor Approval Credit 1.0 Tier I This course will expand and refine the skills presented in Yearbook I. Students in this course will be on the school yearbook staff. It is designed to provide increased responsibility and involvement in the process and production of the yearbook.

YEARBOOK III (0137) Grade 12 Sponsor approval Credit 1.0 Tier I This course is a continuation of Yearbook II

PAL I (0733) Grade 11-12 Prerequisite: Selection/application process Credit 1.0 Tier I Peer assistance leadership is a group of selected juniors and seniors that are trained in group dynamics, active listening, self-actualization, team building, self-directed decision making and other mentoring skills. Students are required to meet selection criteria, attend a summer weekend training retreat and 6 weeks of classroom training before going to other campuses to mentor other peers.

PAL II (0734) Grade 12 Prerequisite: RE-selection/re-application process after satisfactory completion of PALS I Credit 1.0 Tier I Peer assistance leadership is a group of returning seniors that are trained in group dynamics, active listening, self-actualization, team building, self-directed decision making and other mentoring skills. Students are required to meet selection criteria, attend a summer weekend training retreat and 6 weeks of classroom training before going to other campuses to mentor other peers.

TEEN LEADERSHIP (0737) Grade 9-12 Credit 1.0 Tier I Teen Leadership is a course in which students develop leadership, professional, and business skills. Students learn to develop a healthy self-concept, healthy relationships, and learn to understand the concept of personal responsibility.

ACC INDEPENDENT STUDY DUAL CREDIT Grade 11-12 Credit 0.5-1.0 Tier III

Independent Study Dual Credit gives the student an opportunity to select from a variety of online courses via Austin Community College. Students must complete all required enrollment steps according to ACC guidelines and be TSIA2 ready in areas needed for chosen courses. Any fees or charges other than the \$150 tuition charge are the responsibility of the student. ACC limits the number of tuition vouchers for students to 12 (8 vouchers are used for SHS classroom sections). Every effort must be made to take courses shown with an (*) in the SHS classroom section before online sections are considered. Please see ACC's website for a list of available courses, their requirements, and their start dates. Courses shown in the table below will receive high school credit and be reflected on the student's high school transcript. Courses not on the table below must be evaluated by the principal to determine if they will receive high school credit or not.

| ACC Course | SHS Course | Credit | Tier |
|--------------------|---------------------------------------|---------------|-------------|
| *ENGL 1301 | English 3A or 4A | 0.5 | Tier III |
| *ENGL 1302 | English 3B or 4B | 0.5 | Tier III |
| *ENGL 2322 | English 4 | 1.0 | Tier III |
| MATH 1314 | Algebraic Reasoning | 1.0 | Tier III |
| MATH 1414 | College Algebra for Precalculus | 1.0 | Tier III |
| *HIST 1301 | US History A | 0.5 | Tier III |
| *HIST 1302 | US History B | 0.5 | Tier III |
| *ECON 2301 | Economics | 0.5 | Tier III |
| *GOVT 2305 | US Government | 0.5 | Tier III |
| SOCI 1301 | Sociology | 0.5 | Tier III |
| GOVT 2306 | Special Topics in Social Studies | 0.5 | Tier III |
| HUMA 1301 | Humanities (1 st time) | 1.0 | Tier III |
| BIOL 1309 | Earth and Space | 1.0 | Tier III |
| HUMA 1302 | Humanities (2 nd time) | 1.0 | Tier III |
| SPAN 1411 | Spanish I | 1.0 | Tier III |
| SPAN 1412 | Spanish II | 1.0 | Tier III |
| SPAN 2311 | Spanish III | 1.0 | Tier III |
| DRAM 1310 | Theater Arts I | 1.0 | Tier III |
| *SPCH 1311 or 1315 | Public Speaking I | 0.5 | Tier III |
| ARTS 1301 | Art Appreciation | 1.0 | Tier III |
| EDUC 1300 | College Readiness and Study Skills | 0.5 | Tier III |

*** See GPA Table in this catalog for the grade weighting information.

Hospitality and Tourism Career Cluster

The Hospitality and Tourism Career Cluster focuses on the management, marketing, and operations of restaurants and other food/beverage services, lodging, attractions, recreation events, and travel-related services. Students acquire knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success.

Culinary Arts Statewide Program of Study



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

Secondary Courses for High School Credit

Level 1

- Introduction to Culinary Arts

Level 2

- Culinary Arts

Level 3

- Advanced Culinary Arts

Level 4

- Practicum in Culinary Arts

Postsecondary Opportunities

Associates Degrees

- Hotel and Restaurant Management
- Restaurant Culinary and Catering Management
- Hospitality Administration/ Management, General
- Culinary Arts/ Chef Training

Bachelor's Degrees

- Hotel and Restaurant Management
- Food Service Systems Administration/ Management
- Hospitality Administration/ Management, General
- Culinary Science and Food Service Management

Master's, Doctoral, and Professional Degrees

- Hotel and Restaurant Management
- Food Service Systems Administration/ Management
- Hospitality Administration/ Management, General
- Business Administration Management, General

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities

- Participate in Family, Career, and Community Leaders of America, SkillsUSA, American Culinary Federation, or the Texas Restaurant Association

Work-Based Learning Activities

- Plan a catering event or work for a catering company
- Participate in a cooking course
- Work in a restaurant

Industry-Based Certifications

- Certified Fundamentals Cook
- Certified Fundamentals Pastry Cook
- Certified Hospitality & Tourism Management Professional
- Commercial Foods
- Culinary Meat Selection & Cookery Certification
- Food Protection Manager Certification
- Food Safety & Science Certification
- ManageFirst Professional
- Pre-Professional Certification in Culinary Arts
- Pre-Professional Certification in Food Science Fundamentals
- ServSafe Manager *Offered at SHS



Aligned Occupations

| Occupations | Median Wage | Annual Openings | % Growth |
|----------------------------|-------------|-----------------|----------|
| Food and Beverage Managers | \$55,619 | 1,561 | 28% |
| Chef and Head Cooks | \$43,285 | 1,366 | 25% |
| Food Science Technicians | \$34,382 | 236 | 11% |

Successful completion of the Culinary Arts program of study will fulfill requirements of the Business and Industry endorsement. Revised – October 2022

Architecture and Construction Career Cluster

The Architecture and Construction Career Cluster focuses on designing, planning, managing, building, and maintaining the built environment. Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management.

Carpentry Statewide Program of Study



The Carpentry program of study explores the occupations and educational opportunities related to constructing, installing, or repairing structures and fixtures made of wood, such as concrete forms (including frameworks, partitions, joists, studding, rafters, and stairways). This program of study may also include exploration into installing, dismantling, or moving machinery and heavy equipment according to layout plans, blueprints, or other drawings.

Secondary Courses for High School Credit

Level 1

- Principles of Construction

Level 2

- Construction Technology I

Level 3

- Construction Technology II

Level 4

- Practicum in Construction Technology

Postsecondary Opportunities

Associates Degrees

- Carpentry/Carpenter
- Industrial Mechanics and Maintenance Technology

Bachelor's Degrees

- Construction Science

Master's, Doctoral, and Professional Degrees

- Construction Management

Work-Based Learning and Expanded Learning Opportunities

| Exploration Activities | Work-Based Learning Activities |
|------------------------|--------------------------------|
|------------------------|--------------------------------|

- Shadow a carpenter or millwright
- Participate in SkillsUSA
- Obtain an NCCER certification in Millwright Level 1 or Carpentry Level 1

Industry-Based Certifications

- HBI Pre-Apprenticeship Certificate Training (PACT), Basic Carpentry
- HBI Pre-Apprenticeship Certificate Training (PACT), Core
- HBI Pre-Apprenticeship Certificate Training (PACT), Green Core
- NCCER Carpentry Level I
- NCCER Carpentry Level II
- NCCER Commercial Carpenter
- NCCER Construction Technology Certification Level I
- NCCER Core
- NCCER Painting: Commercial and Residential Level I

- OSHA 30 Hour Construction*
- OSHA 30 Hour General*

*IBC sunseting 8/31/24



Aligned Occupations

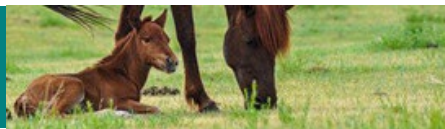
| Occupations | Median Wage | Annual Openings | % Growth |
|-----------------|-------------|-----------------|----------|
| Carpenters | \$35,922 | 5,031 | 26% |
| Cost Estimators | \$63,939 | 2,239 | 21% |

Successful completion of the Carpentry program of study will fulfill requirements of the Business and Industry endorsement. Revised – August 2022

Agriculture, Food, and Natural Resources Career Cluster

The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It also includes non-traditional agricultural occupations like wind energy, solar energy, and oil and gas production.

Animal Science Statewide Program of Study



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

Secondary Courses for High School Credit

Level 1

- Principles of Agriculture, Food, and Natural Resources

Level 2

- Small Animal Management
- Equine Science

Level 3

- Livestock Production/Lab

Level 4

- Advanced Animal Science

Postsecondary Opportunities

Associates Degrees

- Food Science and Technology
- Veterinary Studies
- Biotechnology Laboratory Technician
- Biology Technician

Bachelor's Degrees

- Animal Sciences
- Agriculture
- Biology
- Zoology/ Animal Biology

Master's, Doctoral, and Professional Degrees

- Genetics
- Veterinary Medicine
- Biological and Physical Sciences
- Biological and Biomedical Sciences

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities

- Participate in Texas FFA

Work-Based Learning Activities

- Compete in an Agri-Science Fair 4H
- Volunteer at a local farm or with a veterinarian
- Participate in an FFA supervised agriculture experience

Industry-Based Certifications

- Agricultural Biotechnology
- Certified Veterinary Assistant, Level 1
- Elanco Fundamentals of Animal Science Certification
- Elanco Veterinary Medical Applications Certification
- Equine Management & Evaluation Certification
- Feedyard Technician in Cattle Care and Handling
- Licensed Veterinary Technician
- Production Agriculture - Job Ready
- Small Animal Science and Technology



Aligned Occupations

| Occupations | Median Wage | Annual Openings | % Growth |
|------------------------------------|-------------|-----------------|----------|
| Animal Breeders | \$39,139 | 28 | 9% |
| Animal Scientists | \$57,533 | 22 | 12% |
| Medical Scientists | \$63,898 | 435 | 27% |
| Veterinarians | \$93,496 | 294 | 24% |
| Zoologists and Wildlife Biologists | \$67,309 | 45 | 32% |

Successful completion of the Animal Science program of study will fulfill requirements of a Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised – August 2022

Agriculture, Food, and Natural Resources Career Cluster

The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist. It also includes non-traditional agricultural occupations like wind energy, solar energy, and oil and gas production.

Applied Agricultural Engineering Statewide Program of Study



The Applied Agricultural Engineering program of study explores the occupations and educational opportunities associated with applying knowledge of engineering technology and biological science to agricultural problems concerned with power and machinery, electrification, structures, soil and water conservation, and processing agricultural products. This program of study may also include exploration into diagnosing, repairing, or overhauling farm machinery and vehicles, such as tractors, harvesters, dairy equipment, and irrigation systems.

Secondary Courses for High School Credit

Level 1

- Principles of Agriculture, Food, and Natural Resources

Level 2

- Agricultural Mechanics and Metal Technologies/Lab

Level 3

- Agricultural Structures Design and Fabrications/Lab

Level 4

- Practicum in Agriculture, Food, and Natural Resources

Postsecondary Opportunities

Associates Degrees

- Heavy Equipment Maintenance Technology/ Technician
- Agricultural Mechanization, General
- Small Engine Mechanics and Repair Technology/ Technician
- Welding Technology/ Welder

Bachelor's Degrees

- Agricultural Engineering
- Agricultural Mechanization, General

Master's, Doctoral, and Professional Degrees

- Agricultural Engineering
- Agricultural Mechanization, General

Work-Based Learning and Expanded Learning Opportunities

| Exploration Activities | Work-Based Learning Activities |
|---|---|
| <ul style="list-style-type: none"> Tour a farm products or machinery plant Participate in Texas FFA | <ul style="list-style-type: none"> Earn a welding certification Intern at a farm products or machinery plant Participate in an FFA supervised agriculture experience |

Industry-Based Certifications

- Agriculture Mechanics
- API 1104 Welding Pipelines and Related Facilities AWS Certified Welder
- AWS Certified Welder
- AWS D1.1 Structural Steel
- AWS D9.1 Sheet Metal Welding
- AWS SENSE Level 1: Entry Welder
- Feedyard Technician in Machinery Operation, Repair and Maintenance
- Industrial Technology Maintenance (ITM) - Maintenance Welding
- Machining Measurement, Material, and Safety Level I
- NCCER Welding Level I
- NCCER Core
- General Welding - Job Ready

- OSHA General 30*

*IBC sunseting 8/31/24

Aligned Occupations

| Occupations | Median Wage | Annual Openings | % Growth |
|--|-------------|-----------------|----------|
| Outdoor Power Equipment and Other Small Engine Mechanics | \$32,406 | 366 | 16% |
| Welders | \$41,350 | 6171 | 9% |
| Farm Equipment Mechanics and Service Technicians | \$39,915 | 304 | 17% |
| Mobile Heavy Equipment Mechanics | \$47,299 | 1627 | 16% |
| Agricultural Engineers | \$64,792 | 9 | 13% |

Successful completion of the Applied Agricultural Engineering program of study will fulfill requirements of a Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised – October 2022

Business, Marketing, and Finance Career Cluster

The Business, Marketing, and Finance Career Cluster focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations.
 SHS will not be offering this plan starting with the class of 2027

Marketing & Sales Statewide Program of Study



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

Secondary Courses for High School Credit

Level 1

- Principles of Business, Marketing, and Finance

Level 2

- Sports and Entertainment Marketing
- Virtual Business

Level 3

- Retail Management

Level 4

- Practicum in Entrepreneurship

SHS will not be offering this plan starting with the class of 2027

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities

- Participate in Business Professionals of America, Future Business Leaders of America, or DECA

Work-Based Learning Activities

- Intern with a local marketing firm
- Shadow a real estate agent
- Operate a school store on campus

Industry-Based Certifications

- Business of Retail: Certified Specialist
- Certified Insurance Service Representative
- Customer Service and Sales: Certified Specialist
- Entrepreneurship and Small Business
- Facebook Digital Marketing Associate Certification
- Real Estate Sales Agent License
- Retail Merchandising - Job Ready
- Stukent Social Media Marketing Certification

Postsecondary Opportunities

Associates Degrees

- Marketing/ Marketing Management, General
- Consumer Merchandising/ Retailing Management
- International Marketing
- Business

Bachelor's Degrees

- Marketing/ Marketing Management, General
- Business Administration
- Applied Economics
- Marketing Research

Master's, Doctoral, and Professional Degrees

- Marketing
- Business Administration
- Applied Economics
- Advertising

- Google Analytics Individual Qualification*
 *IBC sunsetting 8/31/24



Aligned Occupations

| Occupations | Median Wage | Annual Openings | % Growth |
|---|-------------|-----------------|----------|
| Marketing Research Analysts and Marketing Specialists | \$70,346 | 4,664 | 40% |
| Insurance Sales Agent | \$43,181 | 5,886 | 30% |
| First-Line Supervisors of Retail Sales Workers | \$72,550 | 2,826 | 15% |
| Wholesale and Retail Buyers | \$51,106 | 1,229 | 19% |

Successful completion of the Marketing and Sales program of study will fulfill requirements of the Business and Industry endorsement. Revised – August 2022

Science, Technology, Engineering, and Mathematics Career Cluster

The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster focuses on planning, managing, and providing, scientific research and professional and technical services, including laboratory and testing services, and research and development services.

Programming and Software Development Statewide Program of Study



The Programming and Software Development program of study explores the occupations and education opportunities associated with researching, designing, developing, and testing operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computer applications. This program of study may also include exploration into creating, modifying, and testing the codes, forms, and script that allow computer applications to run.

Secondary Courses for High School Credit

Level 1

- Fundamentals of Computer Science

Level 2

- AP Computer Science Principles

Level 3

- AP Computer Science A, MATH
- AP Computer Science A, LOTE

Level 4

- Practicum in Science, Technology, Engineering, and Mathematics

Postsecondary Opportunities

Associates Degrees

- Computer Programming/Programmer General
- Computer Software Engineer
- Computer Science
- Certified Software Analyst

Bachelor's Degrees

- Management Information Systems, General
- Computer Software Engineer
- Computer Science
- Information Science/ Studies

Master's, Doctoral, and Professional Degrees

- Computer Software Engineer
- Computer Science
- Information Science/ Studies

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities

- Join TSA
- Participate in coding club at school

Work-Based Learning Activities

- Obtain an industry-based certification

Industry-Based Certifications

- Apple App Development with Swift
- C++ Certified Associate Programmer
- Certified Entry-Level Python Programmer (PCEP) *SHS Offers
- Certified Professional Programmer
- Certified User Programmer
- CompTIA Linux+
- CodeHS Python Level 1 Certification
- Information Technology Specialist: Java
- Information Technology Specialist: JavaScript
- Microsoft Azure AI Fundamentals
- Microsoft Azure Data Fundamentals
- Oracle Certified Associate Java SE 8 Programmer
- Oracle Database SQL Cert



Aligned Occupations

| Occupations | Median Wage | Annual Openings | % Growth |
|--------------------------------------|-------------|-----------------|----------|
| Software Developer, Systems Software | \$103,334 | 2,985 | 25% |
| Software Developers, Application | \$104,499 | 6,311 | 30% |
| Computer Programmers | \$79,893 | 1,454 | 9% |

Successful completion of the Programming and Software Development program of study will fulfill requirements of the Business and Industry endorsement and STEM endorsement if the math and science requirements are met. Revised – August 2022

Science, Technology, Engineering, and Mathematics Career Cluster

The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster focuses on planning, managing, and providing, scientific research and professional and technical services, including laboratory and testing services, and research and development services.

Cybersecurity Statewide Program of Study



The Cybersecurity program of study includes the occupations and educational opportunities related to planning, implementing, upgrading, or monitoring security measure for the protection of computer networks and information. This program of study may also include exploration into responding to computer security breaches and virus and administering network security measures.

Secondary Courses for High School Credit

Level 1

- Foundations of Cybersecurity

Level 2

- AP Computer Science Principles

Level 3

- AP Computer Science A-Math
- AP computer Science B-LOTE

Level 4

- Cybersecurity Capstone

Postsecondary Opportunities

Associates Degrees

- System Networking, and LAN/WAN Management
- Information Technology
- Computer and Information Sciences, General
- Computer Science

Bachelor's Degrees

- Computer Systems Networking and Telecommunications
- Computer Systems Networking and Telecommunications
- Computer and Information Sciences, General
- Computer Science

Master's, Doctoral, and Professional Degrees

- Computer Systems Analysis/Analyst
- Information Technology
- Computer Information Sciences, General
- Computer Science

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities

- Join TSA
- Job shadow a computer system analyst or information security analyst

Work-Based Learning Activities

- Obtain a cybersecurity IBC

Industry-Based Certifications

- Cisco 100-490 RSTech Supporting Cisco Routing and Switching Network Devices
- Cisco 200-201 CBROPS - Understanding Cisco Cybersecurity Operations Fundamentals
- Cisco CCNA (200-301) Implementing and Administering Cisco Solutions
- CodeHS Cybersecurity Level 1 Certification
- CompTIA A+ Certification
- CompTIA Network+
- CompTIA Security+ *SHS Offers
- Computer Networking Fundamentals- Job Ready
- Cybersecurity Fundamentals
- CyberSecurity Fundamentals: An ISACA Certificate
- Information Technology Specialist: Java
- Information Technology Specialist" JavaScript
- information Technology Specialist: Networking
- Microsoft Security, Compliance, and Identity Fundamentals
- Microsoft 365 Fundamentals
- Oracle Certified Associate Java SE 8 Programmer

- Associate of (ISC)*
*IBC sunseting 8/31/24



Aligned Occupations

| Occupations | Median Wage | Annual Openings | % Growth |
|--|-------------|-----------------|----------|
| Information Security Analysts | \$91,915 | 814 | 29% |
| Network and Computer System Administrators | \$82,597 | 2,814 | 19% |
| Computer System Analysts | \$87,568 | 5,937 | 29% |

Successful completion of the Cybersecurity program of study will fulfill requirements of the Business and Industry or STEM endorsement if the math and science requirements are met. Revised – October 2022

Science, Technology, Engineering, and Mathematics Career Cluster

The Science, Technology, Engineering, and Mathematics (STEM) Career Cluster focuses on planning, managing, and providing, scientific research and professional and technical services, including laboratory and testing services, and research and development services.

Engineering Statewide Program of Study



The Engineering program of study focuses on the design, development, and use of engines, machines, and structures. CTE learners will learn how to apply science, mathematical methods, and empirical evidence to the innovation, design, construction, operation, and maintenance of different manufacturing systems.

Secondary Courses for High School Credit

Level 1

- Introduction to Engineering Design (PLTW)

Level 2

- Manufacturing Engineering Technology I

Level 3

- Engineering and Design and Development (PLTW)
- Computer Integrated Manufacturing (PLTW)
- Aerospace Engineering (PLTW)
- Civil Engineering and Architecture (PLTW)
- Environmental Sustainability (PTLW)
- (TBD BY YEAR 2025)

Level 4

- Practicum in STEM

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities

- Participate in Skills USA competitions

Work-Based Learning Activities

- Intern at an engineering firm
- Shadow a machinist

Industry-Based Certifications

- Autodesk Associate (Certified User) AutoCAD
- Autodesk Associate (Certified User) & Professional Fusion 360
- Autodesk Associate (Certified User) & Professional Inventor for Mechanical Design
- Autodesk Associate (Certified User) & Professional Revit Architecture
- Autodesk Associate (Certified User) & Professional Revit for Electrical
- Autodesk Associate (Certified User) & Professional Revit for Structural Design
- Autodesk Certified Professional in AutoCAD for Design and Drafting
- Autodesk Certified Professional in Civil 3D for Infrastructure Design
- Autodesk Certified Professional in Revit for Architectural Design
- Autodesk Certified User & Professional in Inventor
- C-103 Certified Industry 4.0 Associate - Robot System Operations
- Engineering Technology Foundations
- Lean Six Sigma Green Belt Certification
- Pre-Engineering/Engineering Technology - Job Ready
- Certified SOLIDWORKS Associate (CSWA) - Electrical
- Certified SOLIDWORKS Associate (CSWA) - Academic
- Certified SOLIDWORKS Associate (CSWA) - Mechanical Design
- Certified SOLIDWORKS Associate (CSWA) - Simulation
- Certified SOLIDWORKS Associate (CSWA) - Sustainability
- Certified SOLIDWORKS Professional (CSWP) - Model Based Definition
- Certified SOLIDWORKS Professional (CSWP) - Academic
- Certified SOLIDWORKS Professional (CSWP) - Simulation
- Certified SOLIDWORKS Professional (CSWP) - Mechanical Design
- Certified SOLIDWORKS Professional (CSWPA) - Drawing Tools

- Certified SOLIDWORKS Associate*
*BC sunseting 8/31/24

Postsecondary Opportunities

Associates Degrees

- Electrical and Electronics Engineering
- Drafting and Design Technology/ Technician, General
- Engineering Technology

Bachelor's Degrees

- Electrical and Electronics Engineering
- CAD/CADD Drafting and/or Design Technology/ Technician
- Bioengineering and Biomedical Engineering
- Construction Engineering Technology/ Technician

Master's, Doctoral, and Professional Degrees

- Electrical and Electronics Engineering
- Mechanical Engineering
- Bioengineering and Biomedical Engineering

Aligned Occupations

| Occupations | Median Wage | Annual Openings | % Growth |
|----------------------|-------------|-----------------|----------|
| Aerospace Engineers | \$110,843 | 481 | 9% |
| Industrial Engineers | \$97,074 | 1,263 | 10% |
| Mechanical Engineers | \$91,107 | 1,535 | 11% |
| Chemical Engineers | \$112,819 | 474 | 9% |
| Electrical Engineers | \$98,405 | 1,137 | 105% |

Successful completion of the Engineering program of study will fulfill requirements of the Business and Industry or STEM endorsement if the math and science requirements are met. Revised – November 2022

Health Science Career Cluster

The Health Science Career Cluster focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others.

Nursing Science Statewide Program of Study



The Nursing Science program of study introduces students to the knowledge and skills related to patient care. CTE learners may learn about or practice caring for patients, routine procedures such as monitoring vital signs, development and implementation of care plans, maintenance of medical records, and disease or pain management. Students may focus on the healthcare system and research system designs and make recommended modifications.

Secondary Courses for High School Credit

Level 1

- Principles of Health Science

Level 2

- Medical Terminology

Level 3

- Anatomy and Physiology

Level 4

- Practicum in Nursing (TBD) 23/24

Postsecondary Opportunities

Associates Degrees

- Registered Nursing/Registered Nurse

Bachelor's Degrees

- Informatics Nurse Specialists

Master's, Doctoral, and Professional Degrees

- Nurse Practitioner
- Nursing Administration
- Nurse Anesthetist

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities

- Participate in Health Occupation Students of America

Work-Based Learning Activities

- Volunteer at a community wellness center, hospital, assisted living center, or nursing home

Industry-Based Certifications

- Certified Clinical Medical Assistant
- Certified Nurse Aide (CNA) *Offered at SHS
- Certified Patient Care Technician (CPCT)
- Licensed Vocational Nurse
- Medical Assistant
- Patient Care Technician
- Phlebotomy Technician *Offered at SHS
- Registered Nurse



Aligned Occupations

| Occupations | Median Wage | Annual Openings | % Growth |
|----------------------------|-------------|-----------------|----------|
| Licensed Vocational Nurses | \$45,178 | 7,186 | 21% |
| Registered Nurses | \$68,682 | 17,493 | 26% |
| Nurse Practitioners | \$107,827 | 977 | 50% |
| Nurse Anesthetists | \$154,856 | 357 | 23% |

Successful completion of the Nursing Science program of study will fulfill requirements of a Public Service endorsement or STEM endorsement if the math and science requirements are met. Revised – August 2022