

# **BRAZOS HIGH SCHOOL**



## **COURSE SELECTION CATALOG**

2023-2024

## **COURSE SELECTION POINTS TO REMEMBER**

1. All students will take a full course load (8 courses)
2. Be certain that the courses that you are selecting fit in your future plan. Don't be afraid to ask if you are uncertain.
3. Consider future career and educational goals of the student. Core academic classes should be chosen that sufficiently challenge and prepare the student for his/her educational plans beyond high school. It is also helpful to identify areas of personal interests when looking at elective options.
4. The purpose of electives is to enrich the curriculum. Students will be eligible for enrollment provided they have completed the necessary prerequisite requirements. Seniors needing courses to fulfill graduation requirements will be given first priority.
5. In the event that very few (*less than 10*) students register for an elective, the class may be dropped from the master schedule.
6. To have periods off for work, students must be in Career Preparation, must have a job and mode of transportation, and be in good standing with credits and state testing requirements.
7. Seniors who are in good academic standing and who have completed all state testing requirements are eligible for an aide period.
8. **Course selection must be completed and turned in. A parent signature is required.**

## **BRAZOS HIGH SCHOOL SCHEDULE CHANGE POLICY**

Schedule changes will be made if:

1. Student is missing a pre-requisite class and needs an alternate course.
2. Student has already earned credit for the class.
3. Fee bill for dual credit is not submitted.
4. Summer reading for Honors English is not completed.
5. Student needs to repeat a failed course.
6. Student received a program recommendation by a coach or sponsor/teacher (example Athletics, Band). Coach/Sponsor/Teacher signature required.

Students will not be able to drop courses without the approval of the Counselor & Principal.

**Parent permission is required for all schedule changes.**

## HIGH SCHOOL OVERVIEW

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

Your high school education, whether you are preparing for work or college, is influenced by your selection of courses and by the application of your abilities. A major part of your school work consists of fundamentals that you will need all of your life.

Gaining admission to college is competitive. Although colleges vary greatly in their specific entrance requirements, admission is based on the applicant's rank in class, the types of courses taken, test scores, participation in activities, and recommendations from teachers and counselors. In order to do effective work in college, it is essential that all students have the following academic competencies: reading, writing, speaking and listening, mathematics, reasoning and study skills.

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

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

## PLANNING YOUR SCHEDULE

Students in grades 9-12 in Brazos ISD are offered instruction in core curriculum that covers the essential elements mandated by the Texas Education Agency and include creative/critical thinking skills, processing skills, research skills and concept-based subject matter. These courses are designed to prepare students for additional post-high school education.

## CLASSIFICATION OF STUDENTS

After the ninth grade, students are classified according to the number of credits earned toward graduation. Classification determines which class meeting a student attends and activities in which he or she may participate. A student is classified according to the number of credits successfully completed and **classification is decided by the number of credits on file at the beginning of each school year**. Refer to the following chart to determine classification.

### GRADE-LEVEL CLASSIFICATION

Credits Earned Classification

4.5 Credits or less	Grade 9	Freshman
5-9.5 Credits	Grade 10	Sophomore
10-14.5 Credits	Grade 11	Junior
15 or more Credits	Grade 12	Senior

## GRADING SYSTEM

In grades 9 – 12, achievement is recorded and reported via numerical grades which correspond to the following letter grades as designated below:

A	=	90 – 100
B	=	80 – 89
C	=	75 – 79
D	=	70 – 74
F	=	Below 70
I	=	Not all work turned in.

## COURSE CREDIT

A student in grades 9–12, or in a lower grade when a student is enrolled in a high school credit- bearing course, will earn credit for a course only if the final grade is 70 or above. For a two- semester (1 credit) course, the student's grades from both semesters will be averaged and credit will be awarded if the combined average is 70 or above. Should the student's combined average be less than 70, the student will be required to retake the semester in which he or she failed.

## CREDIT RECOVERY

Students who do not earn an overall grade of 70 or greater in a course will be required to make up part or all of that credit. Students whose semester average falls between 55-69 may repeat the course using the Plato credit recovery courseware during summer school. Students whose semester average falls below 55 will retake the course with an instructor. Students who fail a math course will *only* have the option to recover credit face-to-face.

Students in grades 9 – 11 will not be allowed to earn initial course credit using the Plato courseware except in the pursuit of Spanish (if offered) or pathways in which the courses are not offered at Brazos High School in face-to-face instruction.

Seniors who are credit deficient for graduation may be allowed to take courses for initial credit using the Plato courseware with prior written approval from the Superintendent. Requests will be evaluated on a case-by-case basis. Every effort will be made to enroll students in face-to-face instruction first.

## CREDIT BY EXAMINATION—If a Student Has Taken the Course/Subject (All Grade Levels)

A student who has previously taken a course or subject—but did not receive credit or a final grade for it—may, in circumstances determined by the principal or attendance committee, be permitted to earn credit by passing an exam approved by the district's board of trustees on the essential knowledge and skills defined for that course or subject. Prior instruction may include, for example, incomplete coursework due to a failed course or excessive absences, homeschooling, or coursework by a student transferring from a non-accredited school. The opportunity to take an examination to earn credit for a course or to be awarded a final grade in a subject after the student has had prior instruction is sometimes referred to as "credit by exam."

The school counselor or principal would determine if the student could take an exam for this purpose. If approval is granted, the **student must score at least 70** on the exam to receive credit for the course or subject.

The attendance review committee may also offer a student with excessive absences an opportunity to earn credit for a course by passing an exam.

[For further information, see the school counselor and policy EHDB(LOCAL) and FD(LOCAL).]

## **CREDIT BY EXAMINATION FOR ADVANCEMENT/ACCELERATION—If a Student**

### **Has Not Taken the Course/Subject**

A student will be permitted to take an exam to earn credit for an academic course or subject area for which the student has had no prior instruction, i.e., for advancement or to accelerate to the next grade level. The exams offered by the district are approved by the district's board of trustees, and state law requires the use of certain exams, such as College Board Advanced Placement (AP) and College Level Examination Program (CLEP) tests, when applicable. The dates on which exams are scheduled during the 2023-24 school year will be published in appropriate district publications and on the district's website. The only exceptions to the published dates will be for any exams administered by another entity besides the district or if a request is made outside of these time frames by a student experiencing homelessness or by a student involved in the foster care system. When another entity administers an exam, a student and the district must comply with the testing schedule of the other entity. During each testing window provided by the district, a student may attempt a specific exam only once.

If a student plans to take an exam, the student (or parent) must register with the school counselor no later than 30 days prior to the scheduled testing date. [For further information, see policy EHDC.]

A student in grade 6 or above will earn course credit with a **passing score of at least 80** on the exam, a scaled score of 50 or higher on an exam administered through the CLEP, or a score of 3 or higher on an AP exam, as applicable. A student may take an exam to earn high school course credit no more than twice. If a student fails to achieve the designated score on the applicable exam before the beginning of the school year in which the student would need to enroll in the course according to the school's high school course sequence, the student must complete the course.

## **CREDIT BY EXAM SCHEDULE**

Students are responsible for registering for CBE with the counselor two weeks prior to the opening of the testing window. Credit by exam will be offered during the following windows.

- August 1-September 30
- October 1-December 31
- January 1-March 31
- April 1-May 31

## **CLASS RANK, GRADE POINT AVERAGE, AND WEIGHTED GRADES**

Beginning with the graduating class of 2019, the District shall include in the calculation of grade point average (GPA) and class rank semester grades earned in high school credit courses taken at any grade

level in the District in the following subject areas only: English, mathematics, science, social studies, and languages other than English. The District shall also include semester grades earned in high school credit courses in these subjects in grades 9–12 at an accredited school that is not a District school.

The calculation shall include failing grades.

The calculation of GPA and class rank shall exclude grades earned in any local credit course.

Calculation of student's official class rank and GPA is done at the end of each semester. For the purposes of class ranking, enrichment/honors, dual credit, and Advanced Placement courses are weighted in accordance with Policy EIC(LOCAL).

Honors courses are weighted with a multiplier of 1.05. Current honors classes that count towards GPA and rank are: Honors Geometry, Pre-Calculus Honors, Honors Physics, Anatomy & Physiology Honors, Honors English I & II, Honors Biology, Honors Chemistry, Honors Algebra II, Honors World History, Honors World Geography, Honors Spanish 3.

Advanced Placement and Dual Credit classes are weighted with a multiplier of 1.10. Currently offered courses that count towards GPA and rank are AP Calculus, AP Statistics, AP Computer Science Principles (**only for class of 2025 and after**), AP Computer Science A, Dual credit US History, Dual credit English III and IV, Dual credit Government, Dual Credit Economics, Dual Credit Psychology, Dual Credit College Algebra, Dual Credit Pre-Calculus, Dual Credit Calculus AB, Dual Credit Spanish III and IV.

Please be advised that if a student transfers into BISD with high school credit(s), their GPA and rank will be calculated based on the equivalent course and weight used in Brazos (see above). We cannot adopt weights or offer weighted credit for courses that BISD students do not have the opportunity to receive.

## **DUAL COLLEGE ENROLLMENT**

Dual credit classes are college courses that high school students can enroll in and earn college credits while satisfying high school graduation requirements. House Bill 5 allows students to earn dual credit at any time during their high school years.

Colleges grade on a different scale than Brazos High School. Please refer to the college's course catalog or the professor's syllabus for grading guidelines. High School credit will be awarded upon successful completion of college courses with a minimum grade of C or 70. Dual Credit classes that factor into GPA are weighted with a multiplier of 1.10.

Dual enrollment college courses are available to Brazos High School students through Wharton County Junior College and Texas State Technical College. In order to take academic classes at any public college or university in Texas, students must have either taken or be exempt from the Texas Success Initiative (TSI) Assessment or a state approved alternate test. Students do not have to be TSI compliant to take classes at TSTC.

Brazos High School students will register for full semester dual credit courses. *Enrollment in mini-semester, summer courses, or compressed eight-week dual credit courses is not allowed.*

Students are responsible for payment of dual credit tuition and fees

- WCJC dual credit courses are \$189 per course plus \$60 technology fee plus the cost of fees, textbooks and supplies.

**\*\*\*Tuition and fee prices are subject to change by our partnering college.**

Brazos ISD, as of the 2023-2024 school year, may pay for **one dual credit course per student per semester** pending approval of funding on a year-to-year basis.

*If a student drops a class or fails to pass a class that is paid for by the district, they forfeit the right to have classes paid for in the future.*

- TSTC dual enrollment courses are \$99 per course.  
Brazos ISD, as of the 2023-2024 school year, will pay for **up to three semester dual enrollment courses per student throughout high school** pending approval of funding on a year-to-year basis.

*If a student drops a class or fails to pass a class that is paid for by the district, they forfeit the right to have classes paid for in the future.*

### TEXAS SUCCESS INITIATIVE:

Students attending Texas public institutions of higher education must be in compliance with the Texas Success Initiative (TSI), as of fall 2003 (Texas Education Code §51.3062) in order to enroll in public institutions of higher education. The law requires all entering college students to be assessed for college readiness in reading, mathematics and writing unless the student qualifies for an exemption. Each student who fails to meet the minimum passing standard of the exam offered by the institution must be placed in a developmental education program designed to help the student achieve college readiness. Students may be exempt from taking a TSI exam by achieving any of the requirements

### EXITING DUAL CREDIT COURSES

Prior to withdrawing from a college course, it is the student's responsibility to first discuss this matter with his/her high school counselor to determine if space is available in the corresponding academic course.

At the end of the semester, a student may exit a dual credit course in which he/she is enrolled and move to the corresponding academic course. The grade earned in the dual credit course will be recorded on the student's transcript.

At any time during the first two weeks of the first semester, a student may exit a dual credit course in which he/she is enrolled and move to corresponding academic course (e.g., exit U.S. History Dual Credit and enroll in U.S. History), **provided there is space available in the desired course along with teacher conference, parent permission, and administrator approval**. The student will be responsible for making up all missed work. The grade earned through the academic course will be the grade which is recorded on the student's transcript.

Should the student withdraw from a one-semester college level course (i.e. Government) that is a requirement for graduation after the second week of school, the campus will accept the withdrawal grade and place the student in the comparable high school course.

Should the student withdraw from a year-long course during the first semester (i.e. English IV or U.S. History) that is required for graduation after the second week of school, the campus will accept the withdrawal grade and place the student in the comparable first semester high school course.



Should the student withdraw from a year-long college level course during the second semester (i.e. English IV or U.S. History), the student must recover the fall semester of the high school credit and enroll in the comparable second semester high school course.

**Dual Credit courses are college level and are taught by college-employed instructors. Any disputes regarding grades, course content, schedules, calendar, attendance or other issues are to be addressed to the respective college. Students with disabilities will need to visit with the Special Populations Department at the college for needed accommodations.**

## **EXIT GUIDELINES FOR HONORS/AP COURSES**

Students may exit from an Honors/AP course at the end of the semester. Please be aware that in order for the semester grades in a two-semester course to be awarded a weight other than Regular weight, the student must complete both semesters of the course as per EIC (Local). Before a student can exit from an Honors course, they must conference with teacher and complete course assignments and/or attend recommended tutorials. The petition may or may not be granted depending on input from teacher, student performance and availability of space in other courses. Please note: Exiting from an Honors course may cause you to have to exit other Honors courses because of scheduling.

## **NCAA ATHLETICS**

To be successful in college, students need to be prepared for college coursework. In Division I and Division II, the National Collegiate Athletic Association (NCAA) sets academic initial-eligibility standards that take into account GPA, standardized test scores, core courses taken in high school and the grades earned in those core courses. Division III schools hold student-athletes to the same overall standards for the institution in which they're enrolling.

All student-athletes also must meet the unique acceptance requirements of the college or university they plan to attend (which may exceed NCAA standards).

For complete eligibility information, please visit the NCAA Eligibility Center at <http://www.ncaa.org/student-athletes/future/eligibility-center>

## **TESTING**

**PSAT / NMSQT (Preliminary SAT and National Merit Scholarship Qualifying Test):** Offered to students in grades 9-11. The PSAT is administered during the month of October under guidelines of College Board. It is a standardized test that provides firsthand practice for the SAT. Junior students are eligible for recognition and scholarships within the National Merit Program. It also provides college information and career tools for the students to use in post- secondary plans. Brazos ISD pays for all juniors to take the PSAT. Any other students in grades 9 or 10 must register in the counseling office for a slight fee, usually around \$15.

**Texas Success Initiative Assessment (TSIA)** = Required of all students planning to take college classes, including Dual Credit courses offered at Brazos High School to junior and senior students. Test is designed to assess college readiness in four areas: reading, writing, math, and essay composition.

**TSIA Exemptions** = There are certain scores that can exempt students from having to participate in the Texas Success Initiative Assessment. Those exemptions are listed below:

- SAT – Mathematics=530, Critical Reading= 480, Combined Score=1010
- ACT – Mathematics=19, English=19, Composite=23

### **SAT Reasoning Test:**

The College Board made content, format, and scoring changes to the SAT in 2016. The redesigned SAT test prioritizes content that reflects the kind of reading and math students will encounter in college and their future work lives.

Students should plan in advance when taking this test as only a few testing dates are established each school year. Registration can be completed online at [www.collegeboard.org](http://www.collegeboard.org)

Brazos ISD participates in the College Board School Day SAT, typically in March. Brazos ISD covers the cost for all juniors to take the SAT during the selected school day, as well as seniors at request.

### **ACT:**

The test assesses general educational development in the areas of English, math, reading, and science. The writing portion is available for an extra charge, but is not required. The highest possible score is a 36. Again, students should plan in advance as only a few testing dates are available each school year.

Registration can be completed online at [www.actstudent.org](http://www.actstudent.org).

**It is highly recommended that students take either the SAT or ACT test during the JUNIOR year of high school.**

**Brazos High School Code = 447340**

### **Non-discrimination Statement**

It is the policy of Brazos Independent School District not to discriminate on the basis of race, color, religion, gender, national origin, sex, handicap, age, or any other basis prohibited by law in providing education services, activities, and programs, including Career and Technical Education (CTE) programs. In accordance with Title IX of the Education Amendments of 1972, the district does not and is required not to discriminate on any basis in its educational programs or activities. The requirement not to discriminate extends to admission and employment. Other federal laws that prohibit discrimination include Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973 as amended, the Age Discrimination Act of 1975 as amended, the Boy Scouts Act, and Title II.

### **GIFTED AND TALENTED**

The high school components of the program focus on developing student's abilities to research independently; to plan and make decisions, to think creatively, logically, divergently and critically; to engage in higher levels of thinking thus helping one to become a "self-directed learner."

## GRADUATION REQUIREMENTS

### STAAR Testing

Students must pass the following STAAR End-of-Course examinations (EOCs) for graduation: Biology, Algebra, English I, English II and U.S. History.

**\*\*\*Covid-19 (Coronavirus) waiver of EOC Assessments for the 2019-2020 school year\*\*\***

***The EOC graduation requirement is waived for the course in which the student was enrolled in, whether it be English I, English II, Algebra I, Biology, or US History, for the 2019-2020 school year if the student earns course credit (passes the course) during that school year, including summer 2020.*** For these students, the waiver reduces the number of EOC assessments the student must pass to meet assessment graduation requirements. This mainly effects the graduating class of 2021 for US History, class of 2022 for English II, and the class of 2023 for English I, Algebra I and Biology. This does not include students who previously took an EOC Assessment and were unsuccessful and are needing to retake the assessment.

Starting in school year 2021-2022, House Bill 4545 requires students who do not pass a STAAR test to receive a minimum of 30 hours of remediation before attempting the test again.

### Endorsements, Graduation Plans, and District Policy

Under House Bill 5, students can graduate under the Foundation Graduation plan, Foundation Plan with an Endorsement or Foundation Plan with Distinguished Level of Achievement.

In accordance with Brazos ISD Policy EIF(Local), to graduate, a student must complete the courses required by the District in addition to those mandated by the state.

The District requires completion of 4 credits in addition to the number required by the state for graduation under the foundation program without an endorsement. Graduation under the foundation program without an endorsement shall be permitted on a case-by-case basis and only as authorized under state law and rules.

The District requires no additional credits beyond the number mandated by the state to graduate under the foundation program with an endorsement.

### Financial Aid Application

In 2019, the 86th Texas Legislature established a new financial aid application graduation requirement. Beginning with students enrolled in **12th grade** during the **2021-2022 school year**, each student must do one of the following in order to graduate:

- Complete and submit a Free Application for Federal Student Aid (FAFSA);
- Complete and submit a Texas Application for State Financial Aid (TASFA); or
- Submit a signed opt-out form.

### Senate Bill 30 Community Safety Education Act

Senate Bill (SB) 30, also known as The Community Safety Education Act, requires the State Board of Education (SBOE) to adopt rules to include the instruction developed under [TEC, §28.012](#), in one or more courses in the required curriculum for students in grades 9-12. The SBOE adopted a new rule in Title 19 of the [Texas Administrative Code \(TAC\), §74.39, Requirements for Instruction on Proper Interaction with Peace Officers](#), that became effective August 27, 2018. This rule requires school districts and charter schools to provide instruction to students in grades 9-12 on proper interaction with peace officers during traffic stops and other in-person encounters.

## **Speech**

The state requires that students demonstrate proficiency in speech skills. Beginning with the Class of 2025, students meet this requirement through the successful completion of their English I and English II courses.

## **CPR**

Since June 14, 2013, the state has required a course be completed at least once in grades 7 – 12. Training must include CPR with hands-on practice. First Aid and AED training is NOT required and training does not need to result in certification.

## **FOUNDATION HIGH SCHOOL PROGRAM**

A student entering grade 9 shall enroll in the courses necessary to complete the curriculum requirements of the Foundation High School Program AND at least one endorsement. The Foundation Plan with an Endorsement requires 26 credits to graduate. Students who have satisfied the applicable requirements of the Foundation Plan and earn an Endorsement, the Distinguished Level of Achievement, and/or a Performance Acknowledgement shall have those completions documented on the academic achievement record (AAR), also known as the high school transcript.

As you set educational goals, please review the requirements for graduation. Requirements for grades 9-12 are specified in the chart that follows:

	<b>FHSP+Endorsement+CTE Program</b> <i>(required in BISD)</i>
<b>English</b> <b>4 Credits</b>	English 1 English 2 English 3 Advanced English Course
<b>Math</b> <b>4 Credits</b>	Algebra 1 Geometry Additional Math Course Additional Math Course
<b>Science</b> <b>4 Credits</b>	Biology IPC / Chemistry Advanced Science Class Advanced Science Class
<b>Social Studies</b> <b>4 Credits</b>	World Geography World History US History Government/Economics
<b>LOTE</b> <b>2 Credits</b>	2 years same language
<b>Fine Art</b> <b>1 Credit</b>	1 credit
<b>PE</b> <b>1 Credit</b>	1 credit
<b>Electives</b>	6 credits (4 of which are within the same CTE Program)
<b>Credits</b>	26

**Endorsement Completion:** In order to earn an Endorsement, a student must successfully complete the curriculum requirements consisting of a coherent sequence of courses in the following category:

- ***Multi-disciplinary Studies***

Complete four credits in each of the following core content areas: English, Mathematics, Science, Social Studies

**Distinguished Level of Achievement:** A student may earn this designation by successfully completing the curriculum requirements for the Foundation High School Program, successfully completing the curriculum requirements for at least one Endorsement, and must successfully enroll and complete Algebra 2 as one of the four mathematics credits. ***This achievement is necessary to qualify for the Top Ten Percent Rule (see pg. 15).***

**Performance Acknowledgements:** A student may earn this designation for outstanding performance in several manners:

- Dual Credit
  - Successful completion of at least 12 hours of college academic courses (4 classes), earning a grade of 3.0 (B average) or higher on a scale of 4.0
- Bilingualism and Bi-literacy
  - Demonstrate proficiency in two or more languages by completing all English Language Arts requirements, maintaining a minimum grade of 80 on a scale of 100
  - Complete minimum of three credits in the same language in a language other than English, maintaining a minimum grade of 80 on a scale of 100
- College Board Advanced Placement
  - Earn a score of 3 or higher on a College Board Advanced Placement examination
- PSAT / ACT / SAT
  - Earn a score on the Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT) that qualifies the student for recognition as a commended scholar or higher by the College Board and National Merit Scholarship Corporation, or part of the National Hispanic Recognition Program, or part of the National Achievement Scholarship Program
  - Earn a combined critical reading and mathematics score of at least 1250 on the SAT
  - Earn a composite score on the ACT exam (without writing) of 28

## **ENDORSEMENTS**

- A student entering 9th grade must indicate an endorsement they plan to follow.
- A student may graduate without earning an endorsement if, after his or her sophomore year, the student's parent signs a form permitting the student to omit the endorsement requirement. However, the student must still complete 26 credits per policy EIC (Local).

## CTE PROGRAMS OF STUDY

Beginning Fall 2022, students will be required to complete at least one CTE program of study between freshmen and senior year. *Classes of 2023 and 2024 will be able to graduate with previously chosen endorsements and without full completion of a CTE Program. Classes of 2025 and so on will adhere to this requirement.*

- A student entering 9th grade must indicate a program of study they plan to follow.
- A student may change or add a program of study any time prior to senior year, as long as they are able to acquire 4 courses within that program by graduation.

Brazos High School currently offers **4 programs** for all students –

<p><b><i>Animal Science Pathway</i></b></p> <ul style="list-style-type: none"> <li>• Principles of Agriculture</li> <li>• Small Animal Management/Equine Science</li> <li>• Livestock Production</li> <li>• Advanced Animal Science</li> </ul> <p>IBC(s) Earned:  <i>Elanco Fundamentals of Animal Science</i>  <i>Elanco Veterinary Medical Applications Certification</i>  <i>Equine Management &amp; Evaluation Certification</i></p>	<p><b><i>Plant Science</i></b></p> <ul style="list-style-type: none"> <li>• Principles of Agriculture</li> <li>• Floral Design I</li> <li>• Advanced Floral Design <i>and/or</i> Horticulture</li> <li>• Practicum in Ag</li> </ul> <p>IBC(s) Earned:  <i>Texas State Floral Knowledge Based</i>  <i>Texas State Floral Level 1</i>  <i>Texas State Floral Level 2</i></p>
<p><b><i>Applied Agricultural Engineering</i></b></p> <ul style="list-style-type: none"> <li>• Principles of Agriculture</li> <li>• Ag Mechanics</li> <li>• Ag Fabrication I</li> <li>• Ag Fabrication II <i>and/or</i> Practicum in Ag</li> </ul> <p>IBC(s) Earned:  <i>AWS D9.1 Sheet Metal Welding</i></p>	<p><b><i>Business Management</i></b></p> <ul style="list-style-type: none"> <li>• Business Information Management I</li> <li>• Business Information Management II</li> <li>• Business Management</li> <li>• Career Preparation <i>or</i> Statistics and Business Decision Making</li> </ul> <p>IBC(s) Earned:  <i>Microsoft Office Specialist 2016 Master</i>  <i>Microsoft Office Specialist: Microsoft Access Expert</i>  <i>Microsoft Office Specialist: Microsoft Excel Expert</i>  <i>Microsoft Office Specialist: Microsoft Word Expert</i></p>

**Additional Elective Pathways available through TSTC** (must complete 3+ courses within the same pathway in order to replace the requirement for completion of a CTE POS):

<p><b><i>Cybersecurity</i></b></p> <ul style="list-style-type: none"> <li>• Personal Computer Hardware</li> <li>• Fundamentals to Networking</li> <li>• Implementing &amp; Supporting Servers</li> <li>• Secure Linux Administrations</li> </ul> <p>IBC(s) Earned:  <i>CompTIA Fundamentals</i></p> <p><b>**TSTC PATHWAY**</b></p>	<p><b><i>Digital Media Design</i></b></p> <ul style="list-style-type: none"> <li>• Computer Illustration</li> <li>• Digital Imaging I</li> <li>• Digital Publishing I</li> <li>• Digital Imaging II</li> </ul> <p>IBC(s) Earned:  <i>Adobe Certified Associate Visual Design Specialist</i></p> <p><b>**TSTC PATHWAY**</b></p>
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**Automatic College Admissions:** In order to qualify for automatic college admission under the Foundation High School Program, a student must be ranked in the top 10% of the graduating class at the time of application and earn the Distinguished Level of Achievement or earn a satisfactory performance on the ACT or SAT determined by the university.

**In order to receive a Texas high school diploma:** a student must complete all the necessary credits for graduation and must satisfactorily meet all the testing requirements (*see pg. 10-13*).

### **College Considerations**

**Top Ten Percent Rule** = The Distinguished Level of Achievement must be earned to be admitted to a Texas public university under the Top 10 percent automatic admission law.

Students must make certain that they also submit an application to the Texas public university for admission before the institution's deadline. This ruling applies only to admission; students are not guaranteed acceptance into their desired choice of major. Keep in mind that most students will apply to college during the fall semester of their senior year. Therefore, the ranking that will be seen when applying is determined after the second semester of the junior year.

**Exemption to the Top Ten Percent Rule** = TEC (51.803) changes the Top Ten Percent Rule as it applies to the **University of Texas at Austin** ONLY. Each fall, UT-Austin must notify secondary schools of its intentions for the coming school year

### **EARLY GRADUATION**

See your counselor for further information about possibly graduating early.



## COURSE DESCRIPTIONS

### **ENGLISH/LANGUAGE ARTS**

#### **English I**

Credit: 1

Grade: 9

Prerequisite: None

Integrated composition and literature with emphasis on a variety of genres. Vocabulary is extended and language and reading skills that are tested on the TAKS test are introduced and emphasized.

#### **English II**

Credit: 1

Grade: 10

Prerequisite: English I

Integrated composition and literature, emphasizing the nature of man through all genres. Language and reading skills that are tested on the new TAKS test are emphasized.

#### **English III**

Credit: 1

Grade: 11

Prerequisite: English II

Integrated composition and literature, emphasizing literature of all genres. Composition includes documented research.

#### **English III (Dual Credit: ENGL 1301 – taken fall)**

Credit: 1

Grade: 11

Prerequisite: English II, Must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND THE PURCHASE OF TEXTBOOKS.*

Enrichment of Regular English III for the advanced student (must have teacher recommendation) and meet college entrance requirements. Offered at Wharton County Junior College.

#### **English IV**

Credit: 1

Grade: 12

Prerequisite: English III

Integrated composition/literature, including literary criticism, documented research and a survey of British literature

**English IV (Dual Credit: ENGL 1302)**

Credit: 1

Grade: 11 - 12

Prerequisite: English III Dual Credit, Must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND THE PURCHASE OF TEXTBOOKS.*

Enrichment of Regular English IV for the advanced student (must have teacher recommendation) and meet college entrance requirements. Offered at Wharton County Junior College.

**SPEECH****Communication Applications**

Credit: ½

Grade: 9 - 12

Prerequisite: None

The study of one-to-one Communications, group communications, and speech preparation, presentation, and analysis, dealing with stage fright and listening skills. This is a general life skills speech course.

**Debate**

Credit: 1

Grade: 9 - 12

Prerequisite: None

Debate is a course designed to promote research, analysis, and public speaking skills in an educational environment of competition. Students will be required to participate in at least one tournament and may be required to attend debate camp over the summer if continuing on the team after their first semester in the class.

**Public Speaking (Dual Credit: SPCH 1315)**

Credit: ½

Grade: 11 - 12

Prerequisite: None, Must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND THE PURCHASE OF TEXTBOOKS.*

The study of one-to-one Communications, group communications, and speech preparation, presentation, and analysis, dealing with stage fright and listening skills. Offered through Wharton County Junior College. Meet college entrance requirements.

## **MATHEMATICS**

### **Algebra I**

Credit: 1

Grade: 9

Prerequisite: None

The study of linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions in both mathematical and real-world situations, as well as polynomials of degree one and two, radical expressions, sequences, and laws of exponents, and generating and solving linear systems with two equations and two variables.

### **Math Models**

Credit: 1

Grade: 10 - 11

Prerequisite: Algebra I

Math Models may count as a 4th year of math but it must be taken before Algebra II; Math Models cannot be taken after Algebra II. This course is recommended if a student earns a 75 or less in Geometry.

In Mathematical Models with Applications, students continue to build on the K-8 and Algebra I foundations as they expand their understanding through other mathematical experiences.

Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, to model information, and to solve problems from various disciplines. Students use mathematical methods to model and solve real-life applied problems involving money, data, chance, patterns, music, design, and science. Students use mathematical models from algebra, geometry, probability, and statistics and connections among these to solve problems from a wide variety of advanced applications in both mathematical and nonmathematical situations

### **Geometry**

Credit: 1

Grade: 9 - 12

Prerequisite: Algebra I

Introduction to basic geometric concepts and formal proofs. Additional topics include parallel lines, congruent triangles, polygons, similar triangles, circles, area, inequalities, space, coordinates and transformational geometry.

### **Geometry-Honors**

Credit: 1

Grade: 9 - 12

Prerequisite: Algebra I

Prerequisite: Must have completed Algebra I with an 85+ or better average with a teacher recommendation and passed the Algebra I EOC.

Intro to basic geometric concepts and formal proofs. Faster pace. Topics include parallel lines, congruent triangles, similar triangles, polygons, circles, area, inequalities, space, coordinates and transformational geometry, additional topics include Euclidian geometry, Trigonometry, and Exploration of Linear Equations and Transformations in coordinate plane.

**Algebra II**

Credit: 1

Grade: 10 - 12

Prerequisite: Algebra I/Geometry

Review of Algebra I, with basic study of equations and inequalities, functions, polynomials, roots and radicals, quadratic equations, conics, rational functions, exponents, logarithmic functions, sequences and series and probability.

**Algebra II Honors**

Credit: 1

Grade: 10 - 12

Prerequisite: Algebra I/Geometry; Must have passed the Algebra I EOC and have Teacher Recommendation

Algebra II Honors provides an in-depth treatment of algebraic concepts through the study of functions using a transformational approach. REQUIRED for the student who wants to take Pre-Calculus Honors and AP Calculus

**Pre-Calculus Honors**

Credit: 1

Grade: 10 - 12

Prerequisite: Algebra II Honors, Geometry

Pre-Calculus Honors is designed for students demonstrating an advanced aptitude for mathematics. Only students planning to take AP Calculus AB should enroll in this class. This course offers a more in-depth view of pre-calculus and will be conducted at an accelerated pace from regular pre-calculus. The level of instruction/curriculum will focus on preparing the student for Advanced Placement courses.

**AP Calculus**

Credit: 1

Grade: 11 - 12

Prerequisite: Pre-Calculus Honors

For students who have thorough knowledge of College Prep mathematics, including algebra, axiomatic geometry, trig, and analytic geometry. Course requirements are set forth in the College Board Publication Advanced Placement Course Description: Calculus AB, Calculus BC, published by The College Board. They include differential and integral calculus.

**AP Statistics**

Credit: 1

Grades: 10 - 12

Prerequisite: Geometry, Algebra II

The Statistics and Risk Management e covers the general areas of describing data, probability, confidence intervals, hypothesis testing, regression, money flow, financial resources, data forecasting and management, fiscal stability, risk management strategies, and production. This is a CTE course that counts as a math credit.

**Financial Math**

Credit: 1

Grade: 12

Prerequisite: Algebra I, Math Models, Geometry

Students will apply critical thinking skills to analyze personal financial decisions based upon the current and projected economic factors. Math and calculations related to the real world experiences include some of the following: net pay, income taxes, calculate mortgage payment, property taxes, mortgage insurance, closing cost, interest cost, etc.

**Dual Credit College Algebra (MATH 1314)**

Credit: 1

Grade: 12

Prerequisite: Algebra I, Geometry, Algebra II, Must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND THE PURCHASE OF TEXTBOOKS.*

In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included.

**Dual Credit Pre-Calculus and Calculus (MATH 2412 & MATH 2413)**

Credit: 2

Grade: 12

Prerequisite: Algebra I, Geometry, Algebra II, Must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND THE PURCHASE OF TEXTBOOKS.*

Faced paced semesters of the typically yearlong pre-calculus and AP calculus courses for the advanced student (must have teacher recommendation) and meet college entrance requirements. Offered at Wharton County Junior College. *Student must commit to taking dual credit pre-calculus in the fall and dual credit calculus in the spring.*

## **SCIENCE**

### **Biology**

Credit: 1

Grade: 9

Prerequisite: None

This course includes a study of living organisms and vital processes. Themes that will be covered in this course include scientific skills, ecology, biochemistry, cellular processes, genetics, evolution, classification of organisms, as well as plant and human body systems. The course includes laboratory experiments designed to reinforce course content.

### **Biology- Honors**

Credit: 1

Grade: 9 - 10

Prerequisite: 8th grade Science average of 85+, passed the STAAR Science test, and teacher recommendation

### **Integrated Physics and Chemistry (IPC)**

Credit: 1

Grade: 9 - 10

Prerequisite: None

Students will use critical thinking and scientific problem solving to make informed decisions in field and laboratory investigations. This course integrates chemistry and physics topics including motions, waves energy transformations, properties and changes in matter, and solution chemistry.

### **Chemistry**

Credit: 1

Grade: 10 - 11

Prerequisite: Completion of Biology and Algebra I

Chemistry is a mathematically based, lab-oriented course in which the student will gain an understanding of relationships between chemical properties, reactions and physical phenomena.

### **Chemistry- Honors**

Credit: 1

Grade: 10 - 12

Prerequisite: Enrollment in Honors Algebra II or completion of Honors Algebra II; teacher recommendation; must have passed the Biology and Algebra I EOC.

This study includes the same topics covered in Chemistry but with more complex mathematical problems. Also included are some additional concepts more abstract than those covered in the academic level.

**Physics**

Credit: 1

Grade: 10 - 12

Prerequisite: Algebra I

In Physics, students develop an understanding of the physical world, including forces, work and energy, heating and cooling systems, electricity and magnetism, and nuclear reactions. These concepts will be addressed both conceptually and mathematically through problem solving and lab investigations.

**Physics- Honors**

Credit: 1

Grade: 11 - 12

Prerequisite: Two years of science, Algebra II, concurrent enrollment in Pre-Calculus or completion of Pre-Calculus; teacher recommendation.

The Physics (Honors) topics and objectives are essentially the same as Physics. These topics, investigation, and studies will be covered in greater depth, intensity, and with higher academic expectations while utilizing opportunities for independent research.

**Forensic Science**

Credit: 1

Grade: 11 - 12

Prerequisite: Biology, Chemistry

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. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science.

**Anatomy and Physiology of Human Systems- Honors**

Credit: 1

Grade: 12

Prerequisite: Biology I, Chemistry or Physics

In Anatomy and Physiology of Human Systems, students will study the systems of the human body. Students will learn the components of these systems and how they relate to each other and to the whole body. Laboratory investigations will include dissections. Success in class will require memorization and problem –solving skills.

**Environmental Systems**

Credit: 1

Grade: 11 - 12

Prerequisite: Biology, Chemistry or Physics

In Environmental Systems, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include; biotic and abiotic factors in habitats, ecosystems and biomes; interrelationships among resources and environmental system; sources and flow of energy through an environmental system; relationship between carrying capacity and changes in populations and ecosystems; and changes in environments

**Advanced Animal Science**

Credit: 1

Grades: 12

Pre-Requisites: Biology, Chemistry OR IPC, Algebra 1, Geometry, Principles of Ag, & Small Animal/Equine OR Livestock

Advanced Animal Science is a more intense study of animal anatomy and physiology related to nutrition, reproduction, health, and management of domesticated animals; identifies nutritional requirements of ruminant and non-ruminant animals; and discusses animal genetics, reproduction, animal pests and diseases, and traditional and current issues in animal science and livestock production. The course is recommended for students in grade 11 (if on an accelerated plan) or 12 only and directed towards those whom wish to pursue a career in the Veterinary, Agriculture Education, or Animal Production fields. This course also counts as science credit.



## **SOCIAL STUDIES**

### **World Geography**

Credit: 1

Grade: 9

A study of the interaction of people and their physical environments in the major areas of the world.

### **World Geography- Honors**

Credit: 1

Grade: 9

Prerequisite: 8th grade average of 85 or better, passed the STAAR Social Studies test and/or teacher recommendation; This course includes all requirements of the corresponding academic level class plus substantial enrichment experiences.

### **World History**

Credit: 1

Grade: 10 - 12

Prerequisite: None

Provides students opportunities to compare and analyze ways of life and cultural patterns that reflect the diversity and commonality of human experience and to understand how these patterns occur. Geographic influences on world history are part of the study.

### **World History- Honors**

Credit: 1

Grade: 10

Prerequisite: Honors World Geography with average of 85 or better and/or teacher recommendation. This course includes all requirements of the corresponding academic level class plus substantial enrichment experiences.

### **United States History**

Credit: 1

Grade: 10 - 11

Prerequisite: None

Studies the post-Reconstruction emergence of the U.S. as a world power. Students deal with geographic influences on historical developments, analyze economic development and growth, observes the nation's social and cultural developments and study its political development.

### **Dual Credit United States History (HIST 1302 – taken in the fall)**

Credit: 1

Grade: 11

Prerequisite: Must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND THE PURCHASE OF TEXTBOOKS.*

Enrichment of Regular US History for the advanced student (must have teacher recommendation) and meet college entrance requirements. Offered at Wharton County Junior College.

## **US Government**

Credit: ½

Grade: 12

In-depth study of the foundations of the U.S. political system; an analysis of political institutions, processes and values; a chronology of the development of the U.S. government system; and an analysis of the structure and function of local, state and federal governments.

### **Dual Credit US Government (GOVT 2305)**

Credit: ½

Grade: 12

Prerequisite: Must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND THE PURCHASE OF TEXTBOOKS.*

Enrichment of Regular Government for the advanced student (must have teacher recommendation) and meet college entrance requirements. Offered at Wharton County Junior College.

## **Economics**

Credit: ½

Grade: 12

Basic principles of our economic system. Emphasis on helping students become informed consumers in today's economy.

### **Dual Credit Economics (ECON 2301)**

Credit: ½

Grade: 12

Prerequisite: Dual Credit Government. Must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND THE PURCHASE OF TEXTBOOKS.*

Enrichment of Regular Economics for the advanced student (must have teacher recommendation) and meet college entrance requirements. Offered at Wharton County Junior College.

### **Dual Credit Introduction to Psychology (PSYC 1301)**

Credit: ½

Grade: 10 - 12

Prerequisite: Student must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND PURCHASE OF TEXTBOOK.*

College level course offered through Wharton County Junior College and Foundation for the understanding of basic psychological principles affecting human behavior

## **Languages other than English (LOTE)**

*Minimum requirements for graduation on all plans: 2 credits*

### **Spanish I**

Credit: 1

Grade: 9 - 12 Prerequisite: None

Emphasizes development of the basic skills of listening and speaking. Through oral and written work, the student learns to read and to write simple texts. Students experience the language and culture by experiencing the cuisine, lifestyle, history and fine arts of the Hispanic world.

### **Spanish II**

Credit: 1

Grade: 9 - 12 Prerequisite: Spanish I

Continues development of the basic skills of listening, speaking, reading and writing. Students are introduced to more complex forms of grammar. Understanding the Hispanic world is further developed by extending the study of literature, culture, history and fine arts.

### **Native Speaker Spanish I & II**

Credits: 2

Grade: 9 - 12 Prerequisite: none

The completion of both Spanish I and Spanish II at an accelerated rate on the computer.

### **Spanish III**

Credit: 1

Grade: 10 - 12

Prerequisite: Spanish I & Spanish II OR Native Spanish

Further the study of grammar, vocabulary and cultures of Spanish-speaking countries. Students improve listening, speaking, reading and writing skills. Students further develop reading comprehension skills through literature, oral presentations and written exercises.

### **Dual Credit Spanish I (SPAN 1411 – counts as Spanish 3)**

Credit: 1

Grade: 11 - 12

Prerequisite: Student must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND PURCHASE OF TEXTBOOK.* Also, Spanish I & Spanish II OR Native Spanish

College level course offered through Wharton County Junior College and Students are introduced to the language and cultures who traditionally speak Spanish.

### **Dual Credit Spanish II (SPAN 1412 – counts as Spanish 4)**

Credit: 1

Grade: 11 - 12

Prerequisite: Student must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND PURCHASE OF TEXTBOOK.* Also, Spanish I & Spanish II OR Native Spanish

College level course offered through Wharton County Junior College and Students are introduced to the language and cultures who traditionally speak Spanish.

**AP Computer Science Principles** (*LOTE credit for class of 2025 and after*)

Credit: 1

Grade: 9 - 12

Prerequisites: Algebra 1 (*College Board does not require Algebra 1, but does recommend knowledge of linear functions and high school algebra*)

This is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems—including the internet—work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

**AP Computer Science A** (*LOTE credit for class of 2025 and after*)

Credit: 2

Grade: 10 - 12

Prerequisites: none by College Board, however BISD requires AP Computer Science Principles

This 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.

## **FINE ARTS**

*Minimum requirements for graduation on all plans: 1 credit*

### **Art I**

Credit: 1

Grade: 9 - 12

Prerequisite: None

An introduction to visual awareness, the elements and principles of art and art appreciation. Labs, which include class critiques, cover the use of basic media including pencil, pen, charcoal, pastel, collage, tempera, clay and wood.

### **Art II**

Credit: 1

Grade: 10 - 12

Prerequisite: Art I

More advanced study of design principles, creative approach and media usage, plus an in-depth study of art history with emphasis on compositional change. Class critiques are conducted.

### **Art III**

Credit: 1

Grade: 11 - 12

Prerequisite: Art II

Synthesis of compositional, creative and technical skills with advanced work in painting, printmaking and three-dimensional media. Students study art history and are introduced to independent study and experimentation, stressing self-critique.

### **Art IV**

Credit: 1

Grade: 12

Prerequisite: Art III

Stresses self-discipline, research and experimentation; for the student who anticipates a career in art. Designed to parallel the experiences of a working artist, involving simultaneous projects, maintenance of a portfolio, individual visits to exhibits and entering art competitions. Study of art history is continued.

### **Theatre Arts I, II, III, IV**

Credit: 1

Grade: 9-12

Prerequisite: none

This course of study is designed as a survey in the fundamentals of theatre, including the role of the actor, the role of the technician, the interpretation of dramatic literature, the development of the physical theatre, and the historical movements and trends in theatre. Through performance and evaluation, the student develops physical, vocal, and mental processes with an emphasis on interpretation, body movement, and characterization.

**Band I, II, III, IV**

Credit: 1

Grade: 9 - 12

Prerequisite: Previous band experience or teacher approval

This course covers the study and performance of music literature covering a broad range of styles and historical periods, music theory and listening skills, opportunities for study and performance of solo literature, and conducting. During the fall semester, all band students are required to participate in the marching band. Attendance at all after- school events, rehearsals, public performances and interscholastic competitions is required. Marching band substitutes for

***½ credit of PE per year for each Marching season, for a maximum of 2 PE credits.***

**Floral Design**

Credit: 1

Grade: 10 - 12

Pre-Requisite: Principles of Agriculture

This course examines all aspects of the floriculture industry. The student will gain knowledge and skills that will allow them to work in the floral industry. In this course students will act as a retail florist and learn to make various arrangements as well as learn how to run a floral business. This course counts as an Art and credit.

## **PHYSICAL EDUCATION/ATHLETICS**

*Minimum requirements for graduation on all plans: 1 credit*

### **Girls/Boys Physical Education I –II**

Credit: 1

Grade: 9 - 12

Prerequisite: None

Emphasis on team sports such as volleyball, softball, basketball, football and soccer. Students develop an understanding of game rules; knowledge and skills necessary to participate; and good sportsmanship habits. Students are administered physical fitness tests.

Emphasis on learning individual sports, including game rules, scoring, care and use of equipment and safety. Students are encouraged to perform at their best individual skill level and to strive for self-improvement using the results of physical fitness tests.

### **Girls and Boys Athletics**

Credit: 1

Grade: 9 - 12

Prerequisite: Placement is based on tryouts. Participants can be removed at any time based on coach request.

The following competitive athletic programs are designed for those who are highly motivated to participate in team and individual UIL athletics. Participants are expected to meet all UIL regulations, and must maintain academic standards while devoting a great deal of time outside the school day toward these programs. Each sport listed requires approval by the coach of the sport involved (i.e football, basketball, baseball, volleyball, track, golf, tennis, cross country & softball).

## **CAREER AND TECHNICAL COURSES**

### **Career Preparation I & II**

Credit: 1-3

Grade: 11 - 12

Prerequisite: Must be 16 years old and have parent and instructor approval. *MUST HAVE AND MAINTAIN EMPLOYMENT.*

Offers students the opportunity to receive on-the-job training in addition to classroom instruction related to the general employment experience. Students must be employed at least 15 hours per school week.

## **TECHNOLOGY APPLICATIONS COURSES**

### **AP Computer Science Principles**

Credit: 1

Grade: 9 - 12

Prerequisites: Algebra 1 (*College Board does not require Algebra 1, but does recommend knowledge of linear functions and high school algebra*)

This is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems—including the internet—work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

***(applicable for the class of 2024 and before – though the class is AP, it does not satisfy a credit for a core subject or LOTE and therefore does not factor into GPA or rank)***

### **AP Computer Science A**

Credit: 2

Grade: 10 - 12

Prerequisites: none by College Board, however BISD requires AP Computer Science Principles

This 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.

***(applicable for the class of 2024 and before – satisfies an Advanced Math Credit, factors into GPA and rank)***



## **OTHER ELECTIVES**

### **Yearbook I, II, III IV (LOCAL CREDIT)**

Credit: 1

This is an elective course organized for the purpose of creating and producing the school yearbook, an effort which both captures the spirit of a school year and serves as a record of major achievements during that year. Student involvement in the course helps develop social skills and responsibility along with management, marketing, writing, photography, desktop publishing and design skills.

### **Student Leadership (satisfies a speech credit)**

Credit: 1

Grade: 10 - 12

Student Leadership is a program in which students develop leadership, professional, and business skills. They learn to develop a healthy self-concept, healthy relationships, and learn to understand the concept of personal responsibility, develop an understanding of Emotional Intelligence and the skills it measures, which include self-awareness, self-control, self-motivation, and social skills, develop skills in public speaking and communication and an understanding of personal image, develop an understanding of the effects of peer pressure, will develop skills to counteract those effects and will develop problem-solving skills, develop an understanding of the principles of parenting, enabling them to become better family members and citizens, and develop an understanding of the need for vision in goal-setting, personally and professionally.

### **Late Arrival\*/Early Dismissal\*\***

Credit: 0

Grade: 11 - 12

Prerequisites: must have completed 16+ credits and be on track for completion of an endorsement and a CTE program of study. Also, students must obtain a signed parent permission form by the end of the first week of school.

Students who complete 16 or more credits by the end of their sophomore year may select early release and/or late arrival period(s) during their junior and senior years. This is a privilege that allows approved juniors and seniors in good standing to arrive to school for 2<sup>nd</sup> period and/or leave school after 8<sup>th</sup> period. Students who make these selections are required to complete all graduation requirements resulting in at least 26 credits plus endorsement, and be enrolled and complete a CTE program of study. Students must arrange for transportation to leave campus immediately for early dismissal. See your counselor for additional information.

*\*If a student has late arrival but reaches 3 absences in their first class of the day by the end of the first six weeks grading period, late arrival will no longer be an option and the student will need to choose a 1st period class to attend instead.*

*\*\*Students having practice for a sport in the morning will not be able to select late arrival. Students having practice for a sport in the afternoon will not be able to select early release. This is for safety reasons, no exceptions will be made.*

### **Office/ Teacher Aide (LOCAL CREDIT)**

Credit: 1

Grade: 12

Prerequisites: must have completed all core requirements and passed all EOCs; approval required. Seniors may be enrolled in one period of Office Aide only and one period of Teacher Aide only.

## **Study Hall (LOCAL CREDIT)**

Credit: 1

Grade: 9 - 12

Prerequisites: none, however the counselor and principal reserve the right to deny any student to approval to participate in study hall pending grades, discipline, attendance, test scores, and teacher recommendations.

## **DUAL CREDIT ELECTIVES**

Note that these courses will count for local elective credit ONLY and cannot replace a course required for graduation. The benefit of taking one of these courses may be that it is needed for what you plan to study in college! ***Elective dual credit courses will not be paid for by Brazos ISD.***

### **Plane Trigonometry (MATH 1316)**

Credit: ½

Grade: 11-12

Prerequisite: Algebra II. Student must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND PURCHASE OF TEXTBOOK.*

### **US History up to 1877 (HIST 1301)**

Credit: ½

Grade: 11

Prerequisite: Student must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND PURCHASE OF TEXTBOOK.*

### **Texas Government (GOVT 2306)**

Credit: ½

Grade: 12

Prerequisite: GOVT 2305. Student must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND PURCHASE OF TEXTBOOK.*

## **Courses Based on CTE Programs of Study:**

### **Animal Science**

9TH GRADE	PRINCIPLES OF AGRICULTURE
10TH GRADE	SMALL ANIMAL MANAGEMENT/EQUINE SCIENCE
11TH GRADE	LIVESTOCK PRODUCTION
12TH GRADE	ADVANCED ANIMAL SCIENCE

#### **Principles of Agriculture**

Credit: 1 (state)

Prerequisite: None

This introductory level course will allow a student with an interest in the field of agriculture the opportunity to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and related expectation. Students will explore all aspects of the cluster.

#### **Small Animal Management**

Credit: 0.5 (state)

Prerequisite: Principles of Ag

Students 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.

#### **Equine Science**

Credit: 0.5 (state)

Prerequisite: Principles of Ag, Small Animal

Students acquire knowledge and skills related to equine animal systems and the equine industry. Equine Science may address topics related to horses, donkeys, and mules.

#### **Livestock Production**

Credit: 1 (state)

Prerequisite: Principles of Ag

Students will learn about career opportunities, entry requirements, and industry expectations. Animal species to be addressed in this course may include, but are not limited to, beef cattle, swine, sheep, goats, and poultry.

#### **Advanced Animal Science**

Credit: 1 (state)

Prerequisites: Biology, Chemistry OR IPC, Algebra 1, Geometry, Principles of Ag, Small Animal/Equine, & Livestock

This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. Students must meet the 40% laboratory and fieldwork requirement.

## **Applied Agricultural Engineering**

9TH GRADE	PRINCIPLES OF AGRICULTURE
10TH GRADE	AG MECHANICS
11TH GRADE	AG FABRICATION I
12TH GRADE	AG FABRICATION II

### **Principles of Agriculture**

Credit: 1 (state)

Prerequisite: None

This introductory level course will allow a student with an interest in the field of agriculture the opportunity to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and related expectation. Students will explore all aspects of the cluster.

### **AG Mechanics**

Credit: 1 (state)

Prerequisite: Principles of AG

This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques.

### **AG Fabrication I**

Credit: 1-2 (state)

Prerequisite: Principles of Ag, AG Mechanics

Students explore career opportunities, entry requirements, and industry expectations as they design and build various shop projects from wood and metal. It is strongly encouraged for students to plan and then build or repair a major project out of wood or metal for this class. All materials will be paid for by the student.

### **AG Fabrication II**

Credit: 1-2 (state)

Prerequisites: Principles of Ag, Ag Fab. I

Students explore career opportunities, entry requirements, and industry expectations as they design and build various shop projects from wood and metal. It is strongly encouraged for students to plan and then build or repair a major project out of wood or metal for this class. All materials will be paid for by the student.

## **Plant Science**

9TH GRADE	PRINCIPLES OF AGRICULTURE
10TH GRADE	FLORAL DESIGN I
11TH GRADE	ADVANCED FLORAL DESIGN <i>or</i> HORTICULTURE
12TH GRADE	PRACTICUM IN AG

### **Principles of Agriculture**

Credit: 1 (state)

Prerequisite: None

This introductory level course will allow a student with an interest in the field of agriculture the opportunity to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and related expectation. Students will explore all aspects of the cluster.

### **Floral Design I**

Credit: 1 (state)

Prerequisite: Principles of Ag

This course examines all aspects of the floriculture industry. The student will gain knowledge and skills that will allow them to work in the floral industry. In this course students will act as a retail florist and learn to make various arrangements as well as learn how to run a floral business. This course also counts as an Art credit.

### **Advanced Floral Design**

Credit: 1 (state)

Prerequisites: Principles of Ag, Floral Design I

In this course, students build on the knowledge from the Floral Design course and are introduced to more advanced floral design concepts, with an emphasis on specialty designs and specific occasion planning. This course focuses on building skills in advanced floral design and providing students with a thorough understanding of the design elements and planning techniques used to produce unique specialty floral designs that support the goals and objectives of a specific occasion or event. Through the analysis and evaluation of various occasion and event types, students explore the design needs and expectations of clients and propose and evaluate appropriate creations. From conception to evaluation, students are challenged to create and design appropriate specialty floral designs that meet the needs of the client. Furthermore, an emphasis on budgetary adherence and entrepreneurship equips students with many of the necessary skills needed for success in floral enterprises.

### **Horticulture Science**

Credit: 1 (state)

Prerequisite: Principles of Ag, Floral Design

Horticulture is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

## **Practicum in Agriculture**

Credit: 2-3 (state)

Prerequisite: Principles of Ag, 1 level II or III Ag related CTE course (*by invitation only*)

Practicum in Agriculture, Food and Natural Resources is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. To prepare for careers in agriculture, food and natural resources, students must attain academic skills and knowledge, acquire technical knowledge and skills related to the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings. **Must be a current Brazos FFA member.**

## **Business Management**

9TH GRADE	BUSINESS INFORMATION MANAGEMENT I (BIM I)
10TH GRADE	BUSINESS INFORMATION MANAGEMENT II (BIM II)
11TH GRADE	BUSINESS MANAGEMENT
12TH GRADE	CAREER PREP I <i>or</i> STATISTICS AND BUSINESS DECISION MAKING

### **Business Information Management Systems I (BIM I)**

Credit: 1 (state)

Prerequisite: None

Do you have what it takes to get a good paying job? Do you have computer skills to help you get ahead in school and the workforce? Take this class to move you forward in today's society. You will develop skills in Microsoft Excel, Access, Word, and PowerPoint that will strengthen your individual performance in the workplace and in society to make a successful transition to the workforce and post-secondary education! In order for a student to be successful in this course, prior computer literacy skills are a must.

### **Business Information Management Systems II (BIM II)**

Credit: 1 (state)

Prerequisites: BIM I

Take it to the next level! Students will apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software.

### **Business Management**

Credit: 1 (state)

Prerequisites: BIM I, BIM II

Take it to the next level! Students will apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software.

### **Career Prep I**

Credit: 2-3 (state)

Prerequisites: BIM I, BIM II, Business Management

Prerequisite: Must be at least 16 years old and have parent and instructor approval. *MUST HAVE AND MAINTAIN EMPLOYMENT.*

Offers students the opportunity to receive on-the-job training in addition to classroom instruction related to the general employment experience. Students must be employed at least 15 hours per school week.

**Statistics and Business Decision Making**

Credit: 1 (state)

Prerequisites: BIM I, BIM II, Business Management

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

**Additional Business Electives outside of Pathways:****Money Matters**

Credit: 1 (state)

Grade: 11, 12

Prerequisite: None

Students will gain a very good understanding of budgeting, credit use, setting financial goals, savings and investments options. Students will also gain knowledge on the free market system with emphasis on basic economic indicators, functions of money, and monetary policy.



## **Cybersecurity**

Semester 1	PERSONAL COMPUTER HARDWARE
Semester 2	FUNDAMENTALS TO NETWORKING
Semester 3	IMPLEMENTING & SUPPORTING SERVERS
Semester 4	SECURE LINUX ADMINISTRATIONS

### **Personal Computer Hardware** (equivalent to Internetworking Technologies I) Credit: 1 (local)

Prerequisite: None

This course introduces the concept of networking, using various analogies to help the student understand the movement of packets throughout the Internet, and the protocol standards used. The Routing and Switching course moves the student into the theory of “moving packets.” The concepts of routing and switching “packets” to the correct destination is covered, and how a network administrator can direct and/or streamline this process through device configuration and deployment.

### **Fundamentals to Networking** (equivalent to Internetworking Technologies II) Credit: 1 (local)

Prerequisite: Personal Computer Hardware

Students learn how to configure routers and switches for advanced functionality. The CCNA 4 course discusses the Wide Area Network (WAN) technologies and network services required by converged applications in a complex network. The course enables students to understand the selection criteria of network devices and WAN technologies to meet network requirements.

### **Implementing and Supporting Servers** (equivalent to Networking Lab) Credit: 2 (local)

Prerequisite: Fundamentals to Networking

Students will develop knowledge of the concepts and skills related to telecommunications and data networking technologies and practices to apply them to personal or career development. To prepare for success, students must have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. This course must be taken concurrently with Networking and may not be taken as a stand-alone course. Districts are encouraged to offer this course in a consecutive block with Networking to allow students sufficient time to master the content of both courses.

### **Secure Linux Administrations** (equivalent to Cybersecurity Capstone) Credit: 1 (local)

Prerequisites: Implementing and Supporting Servers

Students will develop the knowledge and skills needed to explore advanced concepts related to the ethics, laws, and operations of cybersecurity. Students will examine trends and operations of cyberattacks, threats, and vulnerabilities. Students will develop security policies to mitigate risks. The skills obtained in this course prepare students for additional study toward industry certification. A variety of courses are available to students interested in the cybersecurity field. Cybersecurity Capstone may serve as a culminating course in this field of study.

## **Digital Media Design**

Semester 1	COMPUTER ILLUSTRATION
Semester 2	DIGITAL IMAGING I
Semester 3	DIGITAL PUBLISHING I
Semester 4	DIGITAL IMAGING II

### **Computer Illustration** (no equivalent course for PEIMS coding)

Credit: 1 (local)

Prerequisite: None

This course introduces the concept of networking, using various analogies to help the student understand the movement of packets throughout the Internet, and the protocol standards used. The Routing and Switching course moves the student into the theory of “moving packets.” The concepts of routing and switching “packets” to the correct destination is covered, and how a network administrator can direct and/or streamline this process through device configuration and deployment.

### **Digital Imaging I** (equivalent to Digital Design and Media Production)

Credit: 1 (local)

Prerequisite: Computer Illustration

Students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment.

### **Digital Publishing I** (equivalent to Digital Art and Animation)

Credit: 1 (local)

Prerequisite: Digital Imaging I

Students demonstrate appropriate use of hardware and software components, electronic storage devices, sound editing. Students create and modify solutions by combining graphics, images and sound while applying principles of design. Demonstrate knowledge of publishing and delivering products in a variety of media formats.

### **Digital Imaging II** (equivalent to Graphic Design and Illustration II)

Credit: 2 (local)

Prerequisites: Digital Publishing I

Students apply information, technology applications using information management, internet, email, writing and publishing, spreadsheet or database applications for art and design projects. Exhibits ethical conduct related to client confidentiality, privacy, proper credit for ideas.

