

**BRAZOS HIGH SCHOOL**



**COURSE SELECTION CATALOG**

2020-2021

## **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 degree 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 fulfil graduation requirements will be given first priority.
5. In the event that very few (*less than 8*) 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 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 one 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 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

### YOUR HIGH SCHOOL YEARS

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 a grade of 70 or greater in a course will be required to make up that credit. Students whose semester average falls between 60-69 may repeat the course using the Plato credit recovery courseware. Students whose semester average falls below 60 will retake the course with an instructor.

Students in grades 9 – 11 will not be allowed to earn initial course credit using the Plato courseware except in the pursuit of specified endorsements in which the courses are not offered at Brazos High School in face-to-face instruction. The specific courses in which students may take for original credit using Plato courseware are as follows: Entrepreneurship, Advertising, Sports and Entertainment, Principles of Information Technology, Web Technologies, Principles of Audio and Visual Design, Graphic Designs, Principles of Health Science, Health Science Theory, Medical Terminology, Principles of Education, Child Development and Instructional Practice.

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 recovery.”

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 2016–17 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 AND WEIGHTED GRADES**

Beginning with the graduating class of 2019, the District shall include in the calculation of 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 class rank shall exclude grades earned in any local credit course.

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

Enrichment courses are weighted with a multiplier of 1.05. Current enrichment classes are: Honors Geometry, Pre-Calculus, Honors Physics, Anatomy & Physiology, Honors English I & II, Honors Biology, Honors Chemistry, Honors Algebra II, Honors World History, Honors World Geography, Spanish 3.

Advanced Placement and Dual Credit classes are weighted with a multiplier of 1.10. Currently offered are AP Calculus, Dual credit US History, Dual credit English, Dual credit Government, Dual Credit Economics, Dual Credit Psychology, Dual Credit Sociology, Dual Credit Speech Communication, Dual Credit Art Appreciation, Dual Credit Music Theory, Dual Credit Spanish I & II.

## **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 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 The University of Texas Permian Basin. 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) test or a state approved alternate test.

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

- UTPB dual credit courses are \$300 plus the cost of fees, textbooks and supplies.  
**\*\*\*Tuition and fee prices are subject to change by our partnering universities**

## **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

## **SAT**

(i) SAT administered prior to March 5, 2016: a combined critical reading (formerly "verbal") and mathematics score of 1070 with a minimum of 500 on the critical reading test shall be exempt for both reading and writing sections of the TSI Assessment; a combined critical reading (formerly "verbal") and mathematics score of 1070 with a minimum of 500 on the mathematics test shall be exempt for the mathematics section of the TSI Assessment.

(ii) SAT administered on or after March 5, 2016: a minimum score of 480 on the Evidenced-Based Reading and Writing (EBRW) test shall be exempt for both reading and writing sections of the TSI Assessment; a minimum score of 530 on the mathematics test shall be exempt for the mathematics section of the TSI Assessment. There is no combined score.

(iii) Mixing or combining scores from the SAT administered prior to March 5, 2016 and the SAT administered on or after March 5, 2016 is not allowable.

The student achieves an **ACT** composite score of 23, or higher, with a minimum 19, or higher, on both math and English taken within the time limits defined by the THECB rule-5 years from the date of testing.

## **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.

Students who withdraw after the college's published withdrawal date will receive the assigned grade from the college and be required to recover the credit either through Credit by Exam or Plato.

**Because 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.

### **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."

### **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. Students must register in the counseling office for a slight fee, usually around \$15. It also provides college information and career tools for the students to use in post- secondary plans.

## **EOC GRADUATION REQUIREMENTS**

Students must pass End of Course tests in the following areas: Algebra I, Biology, English I, English II and U.S. History.

**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. In order to take TSIA, a MANDATORY pre-assessment activity must be completed. Once the pre-test is completed, the student must print a certificate and present it to the testing center prior to testing.

**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=500, Critical Reading= 500, Combined Score=1070
- ACT – Mathematics=19, English=19, Composite=23
- PSAT- Math=50, Critical Reading=50, Combined Score=107

### **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)

### **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**

## **GRADUATION REQUIREMENTS**

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

House Bill 5 created new graduation plans effective students entering 9th grade in the 2014-2015 school year and subsequent school years. Under the new graduation plans as enacted via 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 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.

### **FOUNDATION HIGH SCHOOL PROGRAM:**

A student entering grade 9 in the 2014-2015 school year and thereafter 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</b>	<b>Foundation HS Plan (FHSP)</b>
<b>English</b> <b>4 Credits</b>	English 1 English 2 English 3 Advanced English Course	English 1 English 2 English 3 Advanced English Course
<b>Math</b> <b>4 Credits</b>	Algebra 1 Geometry Algebra 2 Advanced Math	Algebra 1 Geometry Advanced Math Class
<b>Science</b> <b>4 Credits</b>	Biology IPC / Advanced Science Class Advanced Science Class Advanced Science Class	Biology IPC / Advanced Science Class Advanced Science Class
<b>Social Studies</b> <b>3 Credits</b>	World Geography or World History US History Government/Economics	World Geography or World History US History Government/Economics
<b>LOTE</b> <b>2 Credits</b>	2 years same language	2 years same language
<b>Fine Art</b> <b>1 Credit</b>	1 credit	1 credit
<b>PE</b> <b>1 Credit</b>	1 credit	1 credit
<b>Speech</b> <b>½ credit</b>	Demonstrate proficiency in speech skills	Demonstrate proficiency in speech skills
<b>Electives</b>	7 credits	5 credits
<b>Credits</b>	26	22

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

- Arts and Humanities
- Business and Industry
- Public Services
- STEM
- Multi-disciplinary Studies
- Four credits in Advanced Placement or Dual Credit Courses
- Four credits in each of the four foundation subject areas to include English IV, Chemistry and/or Physics

**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.

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

Brazos High School offers **five endorsements** to choose from –

STEM, Business and Industry, Public Service, Arts and Humanities, and Multi-Disciplinary Studies

### ***Your Multi-Disciplinary Endorsement Options***

Choose one of two options to earn your **Multi-Disciplinary** endorsement

- Complete four credits in Dual-Credit in the following areas:
  - English
  - Mathematics
  - Science
  - Social Studies
  - Economics
  - Languages other than English
  - Fine Arts
- Complete four credits in **each** of the following content areas:
  - English
  - Mathematics (to Algebra II)
  - Science
  - Social Studies

## ***Your Arts and Humanities Endorsement Options***

Choose one of three options to earn your remaining **Arts & Humanities** endorsement credits. You can:

- Complete five total **Social Studies** credits
  - World Geography
  - World History
  - US History
  - Government
  - Economics
  - Intro to Psychology (Dual Credit Only)
  - Intro to Sociology (Dual Credit Only)
- 4 credits in **Music**
  - Band I-IV
  - Music 1301 (Dual Credit Only)
- 4 credits in **Art**
  - Art I- IV
  - Art Appreciation (Dual Credit Only)
- 4 credits in **Fine Arts** (Music and/or Art)

## ***Your Business and Industry Endorsement Options***

Choose one of seven options to earn your **Business & Industry** endorsement. You can complete consecutive levels:

- **Agriculture, Food, & Natural Resources**
  - Applied Ag. Engineering
    - Principles of Ag (9th grade)
    - AG Mech. (10th grade)
    - AG Fabrication (11th grade)
    - AG Power (12th grade)
  - Animal Science
    - Principles of Ag (9th grade)
    - Fisheries & Wildlife (10<sup>th</sup> grade)
    - Livestock Production (11th grade)
    - Advanced Animal Science (12th grade)
  - Agribusiness
    - Principles of Ag. (9<sup>th</sup> grade)
    - Professional Standards in Agribusiness (10<sup>th</sup> grade)
    - Ag. Math (11<sup>th</sup> grade)
    - Ag. Leadership (12<sup>th</sup> grade)
  - Plant Science
    - Principles of Ag. (9<sup>th</sup> grade)
    - Horticulture (10<sup>th</sup> grade)
    - Floral Design I (11<sup>th</sup> grade)
    - Advanced Floral Design (12<sup>th</sup> grade)



- **Business Management & Administration**
  - Finance
    - Principles of Business (9<sup>th</sup> grade)
    - Money Matters (10<sup>th</sup> grade)
    - Accounting I (11<sup>th</sup> grade)
    - Statistics (12<sup>th</sup> grade)
  - Business and Industry
    - Principles of Business (9<sup>th</sup> grade)
    - Money Matters (10<sup>th</sup> grade)
    - BIM 1 (11<sup>th</sup> grade)
    - BIM 2 (12<sup>th</sup> grade)
  - Marketing
    - Principles of Business (9<sup>th</sup> grade)
    - Entrepreneurship (10<sup>th</sup> grade)
    - Advertising / Sports and Entertainment (11<sup>th</sup> grade)
    - Accounting (12<sup>th</sup> grade)
  - Business Management
    - Principles of Business (9<sup>th</sup> grade)
    - Money Matters (10<sup>th</sup> grade)
    - BIM (11<sup>th</sup> grade)
    - BIM II (12<sup>th</sup> grade)
  - Information Technology
    - Principles of Information Technology (9<sup>th</sup> grade)
    - BIM 1 (10<sup>th</sup> grade)
    - Digital & Interactive Media (11<sup>th</sup> grade)
    - Web Technologies (12<sup>th</sup> grade)

- Arts, A/V & Communications – Graphic Arts
  - Principles of Audio & Visual (9<sup>th</sup> grade)
  - Graphic Design (10<sup>th</sup> grade)
  - Digital & Interactive Media (11<sup>th</sup> grade)
  - Web Technologies (12<sup>th</sup> grade)

***Your Public Services Endorsement Options***

Choose one of two options to earn your **Public Services** endorsement. You can complete consecutive levels:

- Health Science
  - Medical Terminology (9<sup>th</sup> grade)
  - Principles of Health Science (10<sup>th</sup> grade)
  - Health Science Theory (11<sup>th</sup> grade)
  - Anatomy & Physiology (12<sup>th</sup> grade)
- Education and Training
  - Principles of Education (9<sup>th</sup> grade)
  - Child Development (10<sup>th</sup> grade)
  - Practicum in Education (11<sup>th</sup> grade)
  - Instructional Practice (PALS) (12<sup>th</sup> grade)

## ***Your STEM Endorsement Options***

Choose one of three options:

- **Mathematics – 5 Math Credits**
  - Algebra I
  - Geometry
  - Algebra II
  - Any two additional courses in which Algebra II is a prerequisite
    - Pre-Cal, AP Statistics, AP Calculus
- **Science – 5 Science Credits**
  - Biology
  - Chemistry
  - Physics
  - Any two additional courses
    - Environmental Systems, Anatomy & Physiology, Advanced Animal Science
- **Science & Math Combination**
  - Successfully complete Algebra I, Geometry, Algebra II, Chemistry & Physics plus 3 additional credits from either Math &/or Science

**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. The only exception to this rule is in regards to the University of Texas in Austin, who will notify high schools the exact percentage that will be automatically accepted one year prior to the expected graduation date.

**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

### **College Considerations**

**Requirements for Admission to Public Universities in Texas** = Beginning with the 2007- 2008 school year, House Bill 3826, 80th Texas Legislature, added the requirement that students meet one or more of the following thresholds in order to be considered for admissions to any general academic teaching institution, including those with open enrollment policies:

- Successfully complete the recommended or advanced high school program.
- Successfully complete a curriculum that is equivalent in content and rigor to an advanced high school program at a high school that does not offer such a program
- Satisfy the College Readiness Benchmarks on the ACT assessment; or
- Earn a score of at least 1500 out of 2400 on the SAT assessment.

The statute does not apply to students entering public junior and community colleges. Once admitted and credit earned at the junior college level, students may then apply and transfer to a general academic teaching institution.

**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

## 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 & 1302)**

Credit: 1

Grade: 11

Prerequisite: English II

Enrichment of Regular English III for the advanced student (must have teacher recommendation) and meet college entrance requirements. Offered at University of Texas Permian Basin. Must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND THE PURCHASE OF TEXTBOOKS.*

#### **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 2322 & 2323 OR ENGL 2327 & 2328

Credit: 1

Grade: 12

Prerequisite: English 1301

Enrichment of Regular English IV for the advanced student (must have teacher recommendation) and meet college entrance requirements. Offered through University of Texas Permian Basin. Must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND THE PURCHASE OF TEXTBOOKS.*

**Professional/ Speech Communications**

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.

**Intro to Public Speaking** (Dual Credit: COMM 1315)

Credit: ½

Prerequisite: None

The study of one-to-one Communications, group communications, and speech preparation, presentation, and analysis, dealing with stage fright and listening skills. Offered through University of Texas Permian Basin. Meet college entrance requirements. Must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND THE PURCHASE OF TEXTBOOKS.*

## **MATHEMATICS**

### **Algebra I**

Credit: 1

Grade: 9 Prerequisite: None

Basic language of algebra, signed numbers, inequalities, exponents, polynomials, factoring, functions, graphs, lines and slopes, radicals, quadratics and problem solving.

### **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

**Math Models**

Credit: 1

Grade: 10-11

Prerequisite: Algebra I/Geometry

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

**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

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.



**College Prep Math**

Credit: 1

Grade: 12

Prerequisite: have not met TSI math standard

A study of arithmetic operations, basic algebraic concepts and notation, geometry, real and complex number system, relations and functions, inequalities, algebraic expressions and equations (absolute value, polynomial, radical and rational), with special emphasis on linear and quadratic expressions and equations.

**AP Statistics**

Credit: 1

Grades: 12

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.

## **SCIENCE**

### **Biology**

Credit: 1

Grade: 9 Prerequisite: None

Expands and refines biological concepts and skills introduced in junior high life science. Provides students with sufficient background for college biology.

### **Biology- Honors**

Credit: 1

Grade: 9

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

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

Credit: 1

Grade: 09 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: 11

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.

**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: 9-12

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, Principles of Agriculture

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:

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 1301 & 1302)**

Credit: 1

Grade: 11

Prerequisite: College level course offered through University of Texas Permian Basin; and student must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND THE PURCHASE OF TEXTBOOKS.*

**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**

Credit: ½

Grade: 12

Prerequisite: College level course offered through University of Texas at the Permian Basin; and student must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND THE PURCHASE OF TEXTBOOKS.*

**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**

Credit: ½

Grade: 12

Prerequisite: College level course offered through University of Texas at the Permian Basin and student must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND PURCHASE OF TEXTBOOK.*

**PSYC 1301 Introduction to Psychology**

Credit: ½

Grade: 10-12

Prerequisite: College level course offered through University of Texas Permian Basin and student must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND PURCHASE OF TEXTBOOK.*

Foundation for the understanding of basic psychological principles affecting human behavior

**SOCI 1301 Introduction to Sociology**

Credit: ½

Grade: 10-12

Prerequisite: College level course offered through University of Texas Permian Basin and student must be TSI College Ready or TSI exempt. *NOTE: THIS COURSE REQUIRES PAYMENT OF APPLICABLE FEES AND PURCHASE OF TEXTBOOK.*

Students are introduced to the basic concepts and theories used to study the nature of social processes and the structure of society.

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

*Foundation Plan and Foundation plus Endorsement requires 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.

### **Spanish III- Honors**

Credit: 1

Grade: 10 12 Prerequisite: Spanish I & Spanish II

At the completion of this course, students are able to communicate up to certain extent in Spanish and have increased their comprehension and oral proficiency. More attention is given to use of the students subjunctive mood by writing compositions and reading short stories. Teacher recommendation required.

## **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.



**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.*

**Principles of Floral Design**

Credit: 1

(\$30 Lab Fee Required for the Year)

Grade: 11 - 12

Pre-Requisite: Principles of Agriculture &amp; Horticulture

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.

## **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.

### **Physical Education III**

Credit: 1

Grade: 11 - 12

Prerequisite: Approval of counselor

A course about continued opportunities to develop, maintain and understand physical fitness. Emphasis is on knowledge and skills for leisure and lifetime sports.

### **Physical Education IV**

Credit: 1

Grade: 12

Prerequisite: Approval of counselor

Students participate in a program planned to meet a wide range of individual interests stressing development of family and physical recreation.

### **Girls and Boys Athletics**

Credit: 1

Grade: 9 - 12

Prerequisite: Placement is based on tryouts

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 TECHNOLOGY COURSES**

### **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.

### **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.

### **OTHER ELECTIVES**

#### **Student Leadership**

Credit: 1

Grade: 9-12

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. They will develop an understanding of Emotional Intelligence and the skills it measures, which include self-awareness, self-control, self-motivation, and social skills. Students will develop skills in public speaking and communication and an understanding of personal image. They will develop an understanding of the effects of peer pressure, will develop skills to counteract those effects and will develop problem-solving skills. They will develop an understanding of the principles of parenting, enabling them to become better family members and citizens. They will also develop an understanding of the need for vision in goal-setting, personally and professionally.

#### **PALS**

Credit: ½- 1

Grade: 12

Prerequisites: Seniors only; **must have transportation**; must have completed all core requirements and passed all EOCs; approval required.

This course provides selected students with an opportunity to be trained to work as a Peer facilitator with younger students. PAL students will learn skills which will provide them to help younger students have a more positive and productive school

experience. The mission of the Peer Assistance and Leadership class (PAL) is to provide a positive role model for the students Brazos ISD. The students in the PAL class will spend time in team building activities and leadership training. The primary purpose is to mentor young students at the elementary, sharing their time and talents with these young students. They build relationships, mentor, tutor, and strive to build positive character traits. PALS also support the high school environment by participating in school events, supporting other student groups, performing community service, and working to promote a positive environment.

**Office Aide (LOCAL CREDIT ONLY)**  
Grade: 12

Credit: 1 credit

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

**Courses Based on Endorsements:**

**Animal Science**

9TH GRADE	PRINCIPLES OF AGRICULTURE
10TH GRADE	FISHERIES & WILDLIFE
11TH GRADE	LIVESTOCK PRODUCTION
12TH GRADE	ADVANCED ANIMAL SCIENCE

**Principles of Agriculture**

Prerequisite: None

Credit: 1 (state)

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.

**Fisheries & Wildlife**

Prerequisite: Principles of Ag

Credit: 1 (state)

Wildlife, Fisheries, and Ecology Management examines the management of game and non-game wildlife species, fish, and aqua crops and their ecological needs as related to current agricultural practices. To prepare for careers in natural resource systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to natural resources, 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 in a variety of settings.

**Livestock Production**

Prerequisite: Principles of Ag, Fisheries & Wildlife

Credit: 1 (state)

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**

Prerequisites: Principles of Ag, Wildlife, & Livestock

Credit: 1

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.

## **Power Systems**

9TH GRADE	PRINCIPLES OF AGRICULTURE
10TH GRADE	AG MECHANICS
11TH GRADE	AG FABRICATIONS
12TH GRADE	AG POWER SYSTEMS

## **Principles of Agriculture**

Prerequisite: None

Credit: 1 (state)

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**

Prerequisite: Principles of AG

Credit: 1 (state)

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. There will be a lab fee of \$10 to go towards the cost of supplies for projects that the students will get to take home, if they have paid the lab fee.

## **AG Fabrications**

Prerequisite: AG Mechanics

Credit: 1-2 (state)

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 Power Systems**

Prerequisites: AG Fabrications

Credit: 1-2 (state)

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.

# Agribusiness

9TH GRADE	PRINCIPLES OF AGRICULTURE PROFESSIONAL STANDARDS IN
10TH GRADE	AGRIBUSINESS
11TH GRADE	AG MATH
12TH GRADE	AG LEADERSHIP

## Principles of Agriculture

Prerequisite: None

Credit: 1 (state)

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.

## Professional Standards in Agribusiness –

- *\*\* (Professional Communications is attached to this course)*

Prerequisite: Principles of Ag

Credit: ½ (state)

Professional Standards in Agribusiness primarily focuses on leadership, communication, employer-employee relations, and problem solving as they relate to agribusiness. To prepare for careers in agribusiness systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to leadership development and the workplace, and develop knowledge and skills regarding agricultural career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This class focuses on contest and awards members may achieve through FFA involvement.

## Ag Math

Prerequisite: Principles of Ag, Professional Standards in Agribusiness

Credit: 1 (state)

In Mathematical Applications in Agriculture, Food, and Natural Resources, students will apply knowledge and skills related to mathematics, including algebra, geometry, and data analysis in the context of agriculture, food, and natural resources. To prepare for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. To prepare for success, students need opportunities to reinforce, apply, and transfer their knowledge and skills related to mathematics in a variety of contexts. This class focuses on contest and awards members may achieve through FFA involvement.

## Ag Leadership

Prerequisites: Principles of Ag, Professional Standards in Agribusiness, Ag Math

Credit: 1 (state)

Agribusiness Management and Marketing is designed to provide a foundation to agribusiness management and the free enterprise system. Instruction includes the use of economic principles such as supply and demand, budgeting, record keeping, finance, risk management, business law, marketing, and careers in agribusiness. To prepare for careers in agribusiness

systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to agribusiness marketing and management and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This class focuses on contest and awards members may achieve through FFA involvement.

## **Plant Science**

9TH GRADE	PRINCIPLES OF AGRICULTURE
10TH GRADE	HORTICULTURE
11TH GRADE	FLORAL DESIGN I
12TH GRADE	ADVANCED FLORAL DESIGN

### **Principles of Agriculture**

Prerequisite: None

Credit: 1 (state)

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.

### **Horticulture**

Prerequisite: Principles of Ag

Credit: 1 (state)

Horticultural Science 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 horticulture 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 knowledge and skills in a variety of settings. This class involves maintenance and care of greenhouse and outdoor garden.

### **Floral Design I**

Prerequisite: Principles of Ag, Horticulture

Credit: 1 (state)

(\$30 Lab Fee Required for the Year)

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**

Prerequisites: Principles of Ag, Horticulture, & Floral Design I

Credit: 1

(\$30 Lab Fee Required for the Year)

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.

## **Arts, Audi Visual & Communication**

9TH GRADE	PRINCIPLES OF ARTS, AUDIOVISUAL & COMMUNICATIONS
10TH GRADE	GRAPHIC DESIGN
11TH GRADE	DIM
12TH GRADE	WEB TECHNOLOGIES

## **Principles of Arts, AV Technology & Communications**

Prerequisite: None

Credit: 1 (state)

This introductory level course will foster a student's creativity with the arts, computers and technology applications. Students will also build skills in both oral and written communication. Upon successful completion students will be ready to further explore their interests in this exciting cluster. Career opportunities, entry requirements, and industry expectations will be studied in greater depth.

## **Graphic Design and Illustration**

Prerequisite: None

Credit: 1 (state)

This course develops an understanding of the graphic design and illustration industry with a focus on fundamental elements and principles of visual art and design. Career opportunities, entry requirements, and industry expectations will be studied in greater depth.

## **Digital and Interactive Multimedia**

Prerequisite: None

Credit: 1 (state)

In this course students will design and create multimedia projects with emerging technologies. Students will design, import, and manipulate text, graphics, audio, video, and animation with editing software. With the use of interactive media, the students will be able to identify appropriate software needed to solve customer needs and resolve real world problems.



## **Web Technologies**

Prerequisites: None

Credit: 1 (state)

This course provides students with an opportunity to develop and impact the sharing of information through web design. This course explores the roles of the Internet, and the use of web pages in real world applications. Students will develop skills in designing, creating, editing, and installing web pages while learning to access, navigate and maintain online services.

## **Business Management**

9TH GRADE	PRINCIPLES OF BUSINESS
10TH GRADE	MONEY MATTERS
11TH GRADE	BIM
12TH GRADE	BIM II

## **Principles of Business**

Prerequisite: None

Credit: 1 (state)

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

## **Money Matters**

Prerequisite: None

Credit: 1 (state)

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.

## **Business Information I**

Prerequisite: None

Credit: 1 (state)

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 II**

Prerequisites: BIM

Credit: 1 (state)

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.

## **Education and Training**

9TH GRADE	PRINCIPLES OF EDUCATION
10TH GRADE	CHILD DEVELOPMENT
11TH GRADE	PRACTICUM IN EDUCATION
12TH GRADE	PALS

### **Principles of Education**

Prerequisite: None

Credit: 1 (state)

This introductory level laboratory course that enables students to investigate careers in the education clusters, including counseling and mental health, early childhood development, family and community, personal care services and education and training careers. Students will understand the basic knowledge and skills essential for success in either cluster.

### **Child Development**

Prerequisite: A. Principles of Education

Credit: 1 (state)

The course is a study of the principles of child growth and development from conception through adolescence. The focus of the course is on meeting children's physical, social, emotional and cognitive needs in their homes and classrooms.

### **Practicum in Education and Training**

Prerequisites: A. Princ. Of Ed., Child Development,

Credit: 1 (state)

Want some actual hands-on experiences working with children? Is teaching right for you? This year long capstone course will offer students the chance to actually shadow and assist teachers in an unpaid internship setting. Students will work with classroom teachers at schools within the district to understand effective instructional techniques for all learners. Prior to enrollment students will need to have successfully completed the Instructional Practice in Education and Training course and gain teacher approval

### **PALS**

Prerequisite: A. Principles of Ed and Child Development, Practicum

Credit: 1 (state)

This year-long course is for students interested in exploring the field of teaching through observation, discovery, lecture, cooperative learning, speakers, analysis of current issues, and utilization of technology. Students will learn about education areas of early childhood, elementary and secondary instruction as well as special populations. Students will practice a variety of hands-on activities using instructional strategies and research based decision making techniques. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

## **Finance**

9TH GRADE	PRINCIPLES OF BUSINESS
10TH GRADE	MONEY MATTERS
11TH GRADE	ACCOUNTING
12TH GRADE	STATISTICS & RISK MANAGEMENT

### **Principles of Business**

Prerequisite: None

Credit: 1 (state)

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

### **Money Matters**

Prerequisite: None

Credit: 1 (state)

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.

### **Accounting I**

Prerequisite: None

Credit: 1 (state)

This course will give you the skills to keep track of where your money goes and the reason for keeping financial records. Students engage in the process of recording, classifying, summarizing, analyzing and communicating accounting information. Students are introduced to industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Automated accounting software is introduced to students during this course.

### **Statistics and Risk Management**

Prerequisites: Algebra II

Credit: 1 (math)

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.

## **Health Science**

9TH GRADE	MEDICAL TERMINOLOGY
10TH GRADE	PRINCIPLES OF HEALTH SCIENCE
11TH GRADE	HEALTH SCIENCE THEORY
12TH GRADE	ANATOMY

### **Medical Terminology**

Prerequisite: None

Credit: 1 (state)

The 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.

### **Principles of Health Science**

Prerequisite: A. Medical Terminology

Credit: 1 (state)

The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry.

### **Health Science Theory**

Prerequisite: A. Medical Terminology and Principles of Health Science

Credit: 1 (state)

The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers.

### **Anatomy and Physiology**

Prerequisites: A. Biology I and a second science credit

Credit: 1

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. Students must meet the 40% laboratory and fieldwork requirement.

# **Information Technology**

9TH GRADE	PRINCIPLES OF INFORMATION TECHNOLOGY
10TH GRADE	BIM
11TH GRADE	DIM
12TH GRADE	WEB TECHNOLOGIES

## **Principles of Information Technology**

Prerequisite: None

Credit: 1 (state)

This course will be an introductory level course launching a student on their way to becoming a computer expert. The course will develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students will enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment. Career opportunities, entry requirements, and industry expectations will be studied in greater depth.

## **Business Information Management**

Prerequisite: None

Credit: 1 (state)

Business Information Management (BIM) is a one year/one credit intermediate computer applications course recommended for students in Grades 9-12. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.

## **Digital and Interactive Multimedia**

Prerequisite: None

Credit: 1 (state)

In this course students will design and create multimedia projects with emerging technologies. Students will design, import, and manipulate text, graphics, audio, video, and animation with editing software. With the use of interactive media, the students will be able to identify appropriate software needed to solve customer needs and resolve real world problems.

## **Web Technologies**

Prerequisites: None

Credit: 1 (state)

This course provides students with an opportunity to develop and impact the sharing of information through web design. This course explores the roles of the Internet, and the use of web pages in real world applications. Students will develop skills in designing, creating, editing, and installing web pages while learning to access, navigate and maintain online services.

## Marketing

9TH GRADE	PRINCIPLES OF BUSINESS
10TH GRADE	ENTREPRENEURSHIP
11TH GRADE	ADVERTISING/ SPORTS & ENTERTAINMENT
12TH GRADE	ACCOUNTING

### Principles of Business

Prerequisite: None

Credit: 1 (state)

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

### Entrepreneurship

Prerequisite: None

Credit: 1 (state)

Want to be your own boss? The primary focus of this course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students understand the capital required, the return on investment desired and the potential for profit. Students will be actively involved in the day-to-day operations of running a retail business.

### Advertising

Prerequisite: None

Credit: ½ (state)

Why do some products become the “hit” item of the year? To find out the answer to this question and more consider studying Advertising and Sales Promotion. Students will be introduced to the principles and practices of advertising. Students will gain knowledge of techniques used in current advertising, including print, broadcast, and digital media. The course explores the social, ethical, and legal issues of advertising, historical influences, strategies, and media decision processes as integrated marketing communications.

### Sports & Entertainment

Prerequisites:

Credit: ½ (state)

Why do athletes and entertainers make so much money from endorsements? This semester long course provides students with the basic marketing strategies, advertising, sponsorship, and customer service in the sports and entertainment fields to include sporting events, movies, TV, amusement parks, travel & tourism, theater, stadium design, event planning, and recording contracts. The business, financial, and legal aspects of the industry are discussed.

### Accounting I

Prerequisites:

Credit: 1 (state)

This course will give you the skills to keep track of where your money goes and the reason for keeping financial records. Students engage in the process of recording, classifying, summarizing, analyzing and communicating accounting information. Students are introduced to industry standards as well as economic, financial, technological, international, social, legal, and ethical factors.