

SENIOR HIGH SCHOOL • JUNIOR HIGH SCHOOL

# ACADEMIC PLANNING GUIDE

Graduation Requirements. Secondary Program Options. Planning Guide for SISD Students Grades 6-12.

## 2017-2018



**SEALY INDEPENDENT SCHOOL DISTRICT**

939 TIGER LANE. SEALY. TEXAS. 77474. PH: (979) 885-3516. [WWW.SEALYISD.COM](http://WWW.SEALYISD.COM)



**Sealy Independent School District  
aims to create engaged students,  
with a global perspective on  
opportunity, fully prepared to realize  
their highest ambitions.**



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# ACADEMIC PLANNING GUIDE

Graduation Requirements. Secondary Program Options. Planning Guide for SISD Students Grades 6-12.

## 2017-2018

The SISD Academic Planning Guide for junior high school and high school students has been combined in order to give a broad view of the secondary programs SISD offers. The information provided in this publication is designed to assist student and parents in planning and making choices for students' high school career. The most current academic planning guide can be found on the Sealy ISD website. Based on graduation requirements and preliminary post high school plans, a personalized graduation plan is developed in a team effort by students, parents, and the school. It is important for parents and students to be aware that selection of academic courses at the junior high level can affect the sequence of options that are available to students at the high school level. Parents are highly encouraged to stay involved in the process of planning for students' futures. Further information can be obtained by contacting the appropriate counselor:

Sealy Junior High (979) 885-3292. Sealy High School (979) 885-3515.

### **COMPLIANCE STATEMENT**

The Sealy Independent School District shall comply fully with the nondiscrimination provisions of all federal and state laws, rules, and regulations by assuring that no person shall be excluded from consideration for recruitment, selection, appointment, training, promotion, retention, or any other personnel action, or be denied any benefits or participation in any educational programs or activities which it operates on the grounds of race, religion, color, national origin, sex, disability, age, or veteran status (except where age, sex, or disability constitutes a bona fide occupational qualification necessary for proper and efficient administration). The Sealy Independent School District is an Equal Employment Opportunity/Affirmative Action employer.

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

It is the policy of Sealy Independent School District not to discriminate on the basis of race, color, national origin, sex, handicap, or age in its employment practices as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; the Age Discrimination Act of 1975, as amended; and Section 504 of the Rehabilitation Act of 1973, as amended.

Sealy Independent School District will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs.

### **FREE APPROPRIATE PUBLIC EDUCATION**

The Sealy Independent School District does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. Sealy ISD provides a free, appropriate education consisting of regular or special education and related aids and services in CATE programs that are designed to meet individual educational needs of disabled persons as adequately as the needs of non-disabled persons. Inquiries regarding the non-discrimination policies can be directed to our Assistant Superintendent located at 939 Tiger Lane, Sealy, Texas 77474, telephone number (979) 885-3516.

# How to Use this Academic Planning Guide

## Planning Your Course of Study

Planning your course of study during junior high and high school is an important step in planning your future. The decisions you make, along with the course of study you pursue, will affect your post-secondary plans, including college and career readiness.

College students change their majors an average of three times. This is typical, and you, too, will probably reconsider your career goals several times over the upcoming years. The decisions you make now, regarding both your program of study and the activities in which you engage, will impact your options beyond high school. It is best to pursue a broad, well-rounded program of student that will prepare you for a variety of opportunities. Sealy ISD offers a multiple programs designed to give our students a firm foundation for entering college, business or technical school, or the workforce. As a student, you are strongly encouraged to pursue a rigorous, challenging program that is best suited for your interests and needs.

The following pages contain information on secondary programs and graduation requirements. In this catalog, you will find the first section to include course options for junior high school students. The second section contains graduation programs, graduation requirements, and course options for high school students. The entire planning guide includes course descriptions, information on pre-requisites and grade level placement.

We are confident that you will find the educational opportunities offered by Sealy ISD to be engaging and beneficial to preparing you for your future. Please use this document to assist you in planning your course work during your years in at our secondary campuses. You have many important decisions to make – take them seriously and make them count!

### Junior High Students and Parents:

- Review Section I containing information on Junior High Courses available in SISD. Also familiarize yourself with the graduation programs and requirements indicated in Section II on pages 23-28.
- Study the content and requirements indicated in this planning guide to help determine the courses you would like selected for each year of your 6-8 grade academic career.
- Think about your future goals for high school and beyond. Consider the ways that junior high school students can earn high school credits.
- Make a final decision about the courses you plan to take for next year. Participate actively in the course selection processes facilitated by your campus counselor to indicate your requests for next year.

### High School Students and Parents:

- Review the graduation programs and requirements in Section II on pages 18-28. Also familiarize yourself with the information provided regarding calculation of students' GPA on pages 31-38.
- Study the content and requirements indicated in this planning guide to help determine the courses you would like selected for each year of your 9-12 grade academic career.
- Think about your future goals and post-secondary plans. Consider the ways that junior high school students can earn high school credits.
- Make a final decision about the courses you plan to take for next year. Participate actively in the course selection processes facilitated by your campus counselor to indicate your requests for next year.

# SISD Endorsement Options

## STEM

Science ■ Technology ■ Engineering ■ Math



A STEM (Science, Technology, Engineering & Math) endorsement requires completion of the FHSP, including Algebra II, Chemistry, Physics, and one of the following:

- A coherent sequence of 4 CTE credits, including:
  - at least 2 courses in the same career cluster, and
  - at least 1 *advanced* CTE course that is the 3<sup>rd</sup> course or higher in a sequence related to Science, Technology, Engineering, or Math

OR
- A coherent sequence of four (4) credits in Computer Science or Computer Programming

OR

- Successful completion of 2 additional math courses for which Algebra II is a prerequisite

OR

- Successful completion of 2 additional science credits beyond Biology, Chemistry, and Physics

OR

- A cross-disciplinary study of science and math, including 3 credits from a combination of courses chosen from up to TWO of the following categories:
  - STEM CTE career cluster courses
  - Computer Science
  - Math courses for which Algebra II is a prerequisite
  - Science courses beyond Chemistry and Physics

## Business & Industry



A Business & Industry endorsement requires completion of the FHSP and one of the following:

- A coherent sequence of 4 CTE credits, including:
  - at least 2 courses in the same career cluster, and
  - at least 1 *advanced* CTE course that is the 3<sup>rd</sup> course or higher in a sequence in one of the following career clusters:
    - Agriculture, Food & Natural Resources
    - Architecture & Construction
    - Arts, A/V Technology & Communications
    - Business Management & Administration
    - Finance
    - Hospitality & Tourism
    - Information Technology
    - Manufacturing
    - Marketing
    - Transportation, Distribution & Logistics

OR
- Four (4) English Language Arts elective credits, including 3 levels in ONE of the following areas
  - Journalism – Newspaper or Yearbook or
  - Speech – Debate or Oral Interpretation

OR
- Four (4) Technology Applications credits selected from:
  - Digital Design & Media Production
  - Digital Art & Animation
  - Digital Communication in the 21<sup>st</sup> Century
  - Digital Video & Audio Design

OR

## Multidisciplinary Studies



A Multidisciplinary Studies endorsement requires completion of the FHSP and at least one of the following:

- Four (4) additional/advanced courses, from within one endorsement area or from various endorsement areas, that prepare the student to either successfully enter postsecondary education without the need for remediation or successfully enter the workforce

OR

- Four (4) credits in each of the four foundation subject areas of English Language Arts, Math, Science, and Social Studies, including a traditional English IV option (academic or Dual Credit) course, and Chemistry and/or Physics

OR

- Four (4) AP, Dual Credit, or IB course credits (*IB for transfer students only as the International Baccalaureate program is not offered in Katy ISD*), selected from English Language Arts, Math, Science, Social Studies, Languages other than English, and/or Fine Arts



## Public Services

A Public Service endorsement requires completion of the FHSP and ONE of the following:

- A coherent sequence of 4 CTE credits, including:
  - at least 2 courses in the same career cluster, and
  - at least 1 *advanced* CTE course that is the 3<sup>rd</sup> course or higher in a sequence in ONE of the following career clusters:
    - Health Science
    - Education & Training
    - Government & Public Administration
    - Human Services
    - Law, Public Safety, Corrections & Security
    - NJROTC (National Junior Reserve Officer Training Corps)

*This endorsement cannot be earned through combining courses from separate Public Services pathways.*

## Arts & Humanities



An Arts & Humanities endorsement requires completion of the FHSP and ONE of the following:

- Five (5) Social Studies credits

OR

- Four (4) levels/credits of *the same language* in a Language other than English (LOTE)

OR

- Two (2) levels/credits of *one* language other than English, and 2 levels/credits of a *separate* language other than English

OR

- A coherent sequence of 4 credits in Fine Arts from ONE or TWO Fine Arts disciplines of Art, Dance, Music, and/or Theatre

OR

- Four (4) English *elective* credits, selected from English IV, Independent Study in English, Literary Genres, Creative Writing, Research & Technical Writing, Communication Applications, Humanities, and AP English Literature & Composition

*This endorsement cannot be earned through combining courses from separate Arts & Humanities pathways.*

Many STEM, Business & Industry and Multidisciplinary Studies pathways, and all Public Services pathways, correspond to the Programs of Study for the state's 16 Career Clusters. Information about Career Clusters can be found at [http://www.achievetexas.org/POS\\_Covers1.htm](http://www.achievetexas.org/POS_Covers1.htm).

The Texas State Board of Education adopted specific requirements of the FHSP + Endorsements on January 31, 2014.

# Table of Contents

<b>Introduction</b> .....	p4
<b>How to Use this Guide</b> .....	p5
<b>SISD Endorsement Options</b> .....	p6
<b>Table of Contents</b> .....	p7
Section 1: Junior High.....	p8
Required Courses.....	P8
Courses to Promote Accelerated Instruction	p8
Courses for High School Credit.....	p8
Advanced Academic Programs.....	p8
Pre-AP Guidelines.....	p9
Course Descriptions.....	p10
Section 2: High School.....	P22
Requirements for Graduation.....	p23
HB5 Graduation Requirements & Endorsements .....	p26
Foundation Graduation Plan-Advanced Course Offerings .....	p31
Dual Credit .....	p32
Grading System and Credit Received.....	p33
Class Rank and Top Ten Percent.....	p34
Grade Classification.....	p36
Pre-AP and AP Guidelines.....	p37
Additional Information.....	p38
Course Fees.....	p39
Standardized Assessments.....	p40
Advanced Academic Programs.....	p40
Course Descriptions.....	p41

# Section 1: Junior High School

## Required Courses for Grade Level Promotion

During the course of students 6<sup>th</sup>-8<sup>th</sup> grade academic careers, each student must complete:

- four core academic courses (ELAR, Math, Science, and Social Studies) for each grade level; and
- 1.5 total credits for physical education either through completion of general PE courses or Pre-Athletics and Athletics courses.

See the SJH Handbook for specific information regarding promotion/retention standards for additional information.

## Courses to Promote Accelerated Attainment of Grade-Level Skills

Sealy Junior High offers and may require student enrollment in academic courses in the areas of reading and math for students who have previously demonstrated below-grade level skills in the corresponding academic area. Each of the course offerings shown below are part of the campus' comprehensive Response-to-Intervention (RTI) system intended to support students in obtaining the necessary skills to regain the ability to perform at or above grade level.

- Grade 6 Reading Lab
- Grade 6 Math Lab
- Grade 7 Reading Lab
- Grade 7 Math Lab
- Grade 8 Reading Lab
- Grade 8 Math Lab

## Courses Available for High School Credit

Sealy Junior High School offers various courses eligible for students to earn high school credit upon obtaining mastery/passing in the course for the semester and/or school year. Courses for which students receive high school credit are not included in the calculation of students 9<sup>th</sup>-12<sup>th</sup> grade GPA. Courses offered at Sealy Junior High that are eligible for high school credit include:

- PLTW - Gateway 1 (.5 Credit)
- PLTW - Gateway 2 (.5 Credit)
- PLTW - Gateway 3 (.5 Credit)
- PLTW - Gateway 4 (.5 Credit)
- Algebra I (1.0 Credit)
- Spanish I (1.0 Credit)
- Spanish I-Spanish Speakers (1.0 Credit)

## Advanced Academic Programs

### Gifted and Talented

Identified gifted and talented students are served in their areas of strength in the Pre-AP classes in the four academic content areas. Teachers of the Pre-AP courses have received the state-required gifted and talented training.

All students identified as gifted and talented have the option of advanced classes (Pre-AP) in all core areas.

These advanced classes contain students who have been identified as GT as well as other high achieving students. All other students are mixed heterogeneously. The GT students are given assignments that require them to work alone, with others, or as a class.

Gifted and talented junior high school students will be expected to take Pre-AP courses whenever these courses are offered in the area that they have been identified as gifted.

Other options for secondary students include participation in UIL academic activities.



# Pre-AP Guidelines

## Pre-AP Courses

Pre-Advanced Placement (Pre-AP) courses help students acquire the skills and habits needed to be successful in college. Student participation in these college-readiness courses will improve writing skills, sharpen problem-solving abilities, and develop time management skills, discipline, and study habits. Pre-AP courses are characterized by an immersion in college-level content, an accelerated pace, and a performance assessment at the synthesis and evaluative levels.

Students enrolled in a Pre-AP course understand:

- that summer assignments must be completed by the due date. Failure to do so may result in removal from that course on the first day of school.
- that the course may seem challenging at first and initial grades may not reflect later grades.
- the level of commitment required for the course and accept the academic challenges.
- the importance of attending tutorials for additional support.
- that a request to move from a Pre-AP/AP course to an academic level course will only be considered at the end of the first three weeks of that course, at the end of the 1<sup>st</sup> 6 weeks on teacher recommendation only, and the end of the first semester.

## Entrance Guidelines for Junior High School Pre-AP Courses

The purpose of the Pre-AP entrance and exit guidelines is to provide placement information to facilitate student success in academically challenging courses. Pre-AP courses are designed to challenge motivated students and prepare them for success in college-level coursework taken during high school and thereafter. In order to assist in the placement decision, these entrance guidelines are intended to provide a profile of students who typically experience success in Pre-AP courses.

These guidelines are recommendations. Our policy is open enrollment in Pre-AP Courses.

1. Prerequisite coursework is successfully completed.
2. Current or previous performance in related content area course:
  - A semester average of 90 -100 in an academic course OR
  - semester average of 80 or above in a Pre-AP course.
3. For science placement only, current or previous performance in math course:
  - A semester average of 90 -100 in an academic course OR
  - semester average of 80 or above in a Pre-AP course.
4. 85th percentile or above on the most recent standardized achievement test or other district- identified testing measure.

Questions about course placement should be directed to the counselor.

**NOTE:** Due to the curricular differences between academic and Pre-AP courses and for the benefit of students, entry into a Pre-AP course from an academic course is limited to the beginning of each semester. It is recommended that students enter advanced placement courses at the beginning of the course, typically in the first week of instruction. Exceptions must have principal approval.

## Exit Guidelines for Junior High School Pre-AP Courses

Students petitioning to exit a Pre-AP or AP course may do so only at the end of the first three weeks of that course. At the end of the first 6 weeks of the course students who have below a 75 average will be placed on probationary enrollment in the course and may be recommended for removal to an equivalent academic level course based on the teacher's recommendation. Students who are failing at the first nine week grade reporting period will be recommended for transfer into an equivalent academic course. Students who have failed a Pre-AP course for the semester will be transferred to an equivalent academic level class prior to the start of the second semester and parents will be informed of this change. Students who remain on probation with an average of below 75 may be recommended for removal to an equivalent academic on-level class at the semester transition based on the teacher's recommendation. If the request for removal is approved, schedule changes will be subject to course availability. The student's grade will be transferred as it exists on the date the schedule change is made.

# Course Descriptions

Offering of courses, excluding those required by TEA, are subject to student course enrollment.  
Course sequences are recommendations based on best practices.  
Career and Technology pathways may be adapted to meet the needs of the students.

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## ENGLISH / LANGUAGE ARTS

Required: 3 Credits  
Credits must include: Grade 6 ELAR, Grade 7 ELAR, Grade 8 ELAR

6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>
Grade 6 ELAR	Grade 7 ELAR	Grade 8 ELAR
Pre-AP Grade 6 ELAR	Pre-AP Grade 7 ELAR	Pre-AP Grade 8 ELAR

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### **English Language Arts and Reading (ELAR) 6-8**

*GRADE PLACEMENT:* 6-8

*PREREQUISITE:* None

*ASSESSMENTS:* Grade Associated Reading STAAR Assessment 6-8; Grade 7 STAAR Writing Assessment

English Language Arts and Reading courses in grades 6-8 include the study of various genres of literature including (literary, expository, short stories, novel, poetry, and drama) and identification of literary elements and techniques found in these different types of literature. This course also includes a study of and practice in the writing process including research reports. The emphasis is on reading and writing and the ultimate goal is to provide each student with the capability to comprehend, analyze, evaluate, and write responsively to various literature genres.

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### **Pre-AP English Language Arts and Reading (ELAR) 6-8**

*GRADE PLACEMENT:* 6-8

*PREREQUISITE:* None

*ASSESSMENTS:* Grade Associated Reading STAAR Assessment 6-8; Grade 7 STAAR Writing Assessment

Pre-AP English Language Arts and Reading courses in grades 6-8 include the study of various genres of literature including (literary, expository, short stories, novel, poetry, and drama) and identification of literary elements and techniques found in these different types of literature. This course also includes a study of and practice in the writing process including research reports. The emphasis is on reading and writing and the ultimate goal is to provide each student with the capability to comprehend, analyze, evaluate, and write responsively to various literature genres.

The Pre-AP nature of this course incorporates advanced levels of rigor, independence, project-based learning and extensions that require a greater investment of time, effort, and skill in order for students to be successful and to successfully contribute to the cumulative learning of the class.

## Course Descriptions

### MATHEMATICS

Required: 3 Credits

Credits must include: Grade 6 Math, Grade 7 Math or Pre-Algebra, Grade 8 Math or Algebra

Students should take math courses in sequence listed below since the skills in one course build upon skills mastered in previous courses.

6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>
6 <sup>th</sup> Grade Math	7 <sup>th</sup> Grade Math	8 <sup>th</sup> Grade Math
6 <sup>th</sup> Grade Pre-AP Math	7 <sup>th</sup> Grade Pre-AP Math/Pre-Algebra	8 <sup>th</sup> Grade Pre-AP Math/Algebra

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#### Mathematics Grades 6-8

*GRADE PLACEMENT:* 6-8

*PREREQUISITE:* None

*ASSESSMENTS:* Grade Associated Math STAAR Assessment 6-8

Mathematics courses in grades 6-8 include the study of various components of mathematic skills as described in the Texas Essential Knowledge and Skills (TEKS) identified for each level. Skills focus on areas of numeracy fluency, geometry, measurement, algebraic reasoning, and personal financial literacy skills.

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#### Pre-AP Mathematics Grade 6

*GRADE PLACEMENT:* 6

*PREREQUISITE:* None

*ASSESSMENTS:* Grade 6 STAAR Math Assessment

Pre-AP Mathematics for Grade 6 Math will include the study of various components of mathematic skills as described in the Texas Essential Knowledge and Skills (TEKS) identified for 6<sup>th</sup> grade and the first semester of 7<sup>th</sup> grade. Skills focus on areas of numeracy fluency, geometry, measurement, algebraic reasoning, and personal financial literacy skills.

The Pre-AP nature of this course incorporates advanced levels of rigor, independence, project-based learning and extensions that require a greater investment of time, effort, and skill in order for students' to be successful and to successfully contribute to the cumulative learning of the class. Students in Pre-AP Mathematics for Grade 6 will learn at an accelerated pace with the goal being to receive instruction on all required 6<sup>th</sup> grade TEKS and fifty-percent of the TEKS established for Grade 7.

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#### Pre-AP Mathematics Grade 7/Pre-Algebra

*GRADE PLACEMENT:* 7

*PREREQUISITE:* Pre-AP Mathematics Grade 6

*ASSESSMENTS:* In accordance with state testing guidelines, students will be tested on the course grade level subject matter for which 100% of the TEKS have been taught.

Pre-AP Mathematics/Pre-Algebra for Grade 7 Math will include the study of various components of mathematic skills as described in the Texas Essential Knowledge and Skills (TEKS) identified for the second half of 7<sup>th</sup> grade (1st semester 7<sup>th</sup> grade taught in prerequisite) and 8<sup>th</sup> grade. Skills focus on areas of numeracy fluency, geometry, measurement, algebraic reasoning, and personal financial literacy skills.

The Pre-AP nature of this course incorporates advanced levels of rigor, independence, project-based learning and extensions that require a greater investment of time, effort, and skill in order for students' to be successful and to successfully contribute to the cumulative learning of the class. Students in Pre-AP Mathematics for Grade 7 will learn at an accelerated pace with the goal being to receive instruction on all the remaining fifty percent of the 7<sup>th</sup> grade TEKS not previously covered in the prerequisite course and all of the 8<sup>th</sup> grade TEKS with an emphasis on pre-algebra skills.

## Course Descriptions

# MATHEMATICS

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### Pre-AP Mathematics Grade 8/ Algebra I

**HIGH SCHOOL CREDIT:** 1.0

**GRADE PLACEMENT:** 8

**PREREQUISITE:** Pre-AP Mathematics Grade 7

**ASSESSMENTS:** STAAR End-of-Course Exam for Algebra I

Pre-AP Mathematics/Algebra I for Grade 8 Math will include the study of various components of mathematic skills as described in the Texas Essential Knowledge and Skills (TEKS) identified for Algebra I.

The Pre-AP nature of this course incorporates advanced levels of rigor, independence, project-based learning and extensions that require a greater investment of time, effort, and skill in order for students' to be successful and to successfully contribute to the cumulative learning of the class. Students in Pre-AP Mathematics/Algebra I for Grade 8 will learn at an accelerated pace covering all of the required TEKS for the high school level Algebra I course.

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# SCIENCE

Required: 3 Credits

Credits must include: Grade 6 Science, Grade 7 Science, Grade 8 Science

6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>
Grade 6 SCIENCE	Grade 7 SCIENCE	Grade 8 SCIENCE
Pre-AP Grade 6 SCIENCE	Pre-AP Grade 7 SCIENCE	Pre-AP Grade 8 SCIENCE

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### Science 6-8

**GRADE PLACEMENT:** 6-8

**PREREQUISITE:** None

**ASSESSMENTS:** Grade 8 STAAR Science Assessment

Science courses in grades 6-8 include the study of various components scientific thinking, the scientific process, and general science knowledge as described in the Texas Essential Knowledge and Skills (TEKS) identified for grades 6-8. Approximately 40% of all science courses will be conducted in through laboratory experiments requiring application of the scientific process including the generation of hypothesis, testing, analysis, and evaluation.

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### Pre-AP Science 6-8

**GRADE PLACEMENT:** 6-8

**PREREQUISITE:** None

**Grade 8 Pre-AP Science requires participation in the 8<sup>th</sup> Grade STAAR Science Assessment**

Pre-AP Science courses in grades 6-8 include the study of various components scientific thinking, the scientific process, and general science knowledge as described in the Texas Essential Knowledge and Skills (TEKS) identified for grades 6-8. Approximately 40% of all science courses will be conducted in through laboratory experiments requiring application of the scientific process including the generation of hypothesis, testing, analysis, and evaluation.

The Pre-AP nature of this course incorporates advanced levels of rigor, independence, project-based learning and extensions that require greater investment of time, effort, and skill in order for students' to be successful and to successfully contribute to the cumulative learning of the class.

The Pre-AP nature of this course incorporates advanced levels of rigor, independence, project-based learning and extensions that require a greater investment of time, effort, and skill in order for students' to be successful and to successfully contribute to the cumulative learning of the class.

## Course Descriptions

### SOCIAL STUDIES

Required: 3 Credits

Credits must include: Grade 6 Social Studies, Grade 7 Social Studies, Grade 8 Social Studies

6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>
Grade 6 SOCIAL STUDIES	Grade 7 SOCIAL STUDIES	Grade 8 SOCIAL STUDIES
Pre-AP Grade 6 SOCIAL STUDIES	Pre-AP Grade 7 SOCIAL STUDIES	Pre-AP Grade 8 SOCIAL STUDIES

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#### **Social Studies Grades 6-8**

*GRADE PLACEMENT: 6-8*

*PREREQUISITE: None*

*ASSESSMENTS: Grade 8 STAAR Social Studies Assessment*

Social Studies courses in grades 6-8 include the study of various components understanding the current and historic context of the local and global land and societies as described in the Texas Essential Knowledge and Skills (TEKS) identified for grades 6-8. Grade 6 focuses on World Geography, Grade 7 focuses on Texas History, and Grade 8 focuses on the history of the United States leading into the High School US History course as required by the state for graduation.

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#### **Pre-AP Social Studies Grades 6-8**

*GRADE PLACEMENT: 6-8*

*PREREQUISITE: None*

*ASSESSMENTS: Grade 8 STAAR Social Studies Assessment*

Social Studies courses in grades 6-8 include the study of various components understanding the current and historic context of the local and global land and societies as described in the Texas Essential Knowledge and Skills (TEKS) identified for grades 6-8. Grade 6 focuses on World Geography, Grade 7 focuses on Texas History, and Grade 8 focuses on the history of the United States leading into the High School US History course as required by the state for graduation.

The Pre-AP nature of this course incorporates advanced levels of rigor, independence, project-based learning and extensions that require a greater investment of time, effort, and skill in order for students' to be successful and to successfully contribute to the cumulative learning of the class.

## Course Descriptions

Offering of courses, excluding those required by TEA, are subject to student course enrollment. Course sequences are recommendations based on best practices. Career and Technology pathways may be adapted to meet the needs of the students.

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### ELECTIVES

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#### MUSIC

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##### **General Music**

*GRADE PLACEMENT: 7-8*

*PREREQUISITE: None*

Students in the General Music class will study a wide variety of topics relating to music. The class is designed for students to develop a comprehensive understanding of music fundamentals, music history, and various instruments. There is not a performance requirement for students in General Music. This class is open to 7th and 8th grade students.

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#### CHOIR

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##### **6<sup>th</sup> Grade Choir**

*GRADE PLACEMENT: 6*

*PREREQUISITE: None*

Students will learn choral reading techniques, ear training, vocal production, solfege, and basic theory. This course is for boys and girls in 6th grade. Participation is required at concerts and contest.

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##### **Concert Girls Choir**

*GRADE PLACEMENT: 7-8*

*PREREQUISITE: None*

Students will learn choral reading techniques, ear training, vocal production, solfege, and basic theory. Any 7th or 8th grade girl can choose this course, no audition or prior choral experience is required. Participation is required at concerts and contest.

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##### **Boys Choir**

*GRADE PLACEMENT: 7-8*

*PREREQUISITE: None*

Students will learn choral reading techniques, ear training, vocal production, solfege, and basic theory. Any 7th or 8th grade boy can choose this course, no audition or prior choral experience is required. Participation is required at concerts and contest.

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##### **Advanced Girls Choir**

*GRADE PLACEMENT: 7-8*

*PREREQUISITE: 6<sup>th</sup> Grade Choir or Concert Girls Choir*

Students will learn advanced choral reading techniques, vocal production, solfege, and theory at a more rigorous pace. This course is for 7th and 8th grade girls with prior choral experience. Students must audition at the end of the school year for placement. Participation is required in Solo Contest, Region Choir Auditions, concerts, UIL contest, and other events.

## Course Descriptions

### ELECTIVES

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#### BAND

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##### **Beginning Band**

*GRADE PLACEMENT: 6-8*

*PREREQUISITE: None*

This course expands light into the fundamentals and exploration of instruments. Emphasis is placed on developing instrumental techniques, musicianship, and performance skills through the study of standard band literature. Students will select instruments with the director's approval before the end of the current school year. This class is for students who have had no previous experience playing an instrument. With approval from the band director, students may choose an instrument from the following: flute, oboe, clarinet, saxophone, trumpet, French horn, trombone, baritone, tuba or percussion. Students are expected to participate in concerts.

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##### **Concert Band**

*GRADE PLACEMENT: 7-8*

*PREREQUISITE: Audition*

This is an entry level band course, and is open to middle school band students who wish to *continue* their instrumental music training. Emphasis is placed on developing instrumental techniques, musicianship, and performance skills through the study of standard band literature. Members of this band will perform several concerts throughout the school year and are eligible to participate in the District Region Band competition.

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##### **Symphonic Band**

*GRADE PLACEMENT: 7-8*

*PREREQUISITE: Audition*

This course is the second level band, and is open to students who completed Concert Band or are placed by the director. This class is designed for band students who wish to continue their instrumental music training, or older students interested in learning a secondary instrument. Emphasis is placed on developing instrumental techniques, musicianship, and performance skills through the study of standard band literature. Members of this band will perform several concerts, pep rallies, and are on display throughout the school year at various events. This group is the face of the Junior High band family. Students are eligible to participate in the District Solo & Ensemble Festival, and are required to audition for the Region Band.

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## ELECTIVES

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### ART

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#### **Art 6th Grade**

*GRADE PLACEMENT: 6*

*PREREQUISITE: None*

This course is an introduction to the language of design learning the basics of line, shape, form, color, texture and value through creative problem solving, art criticism, historical and cultural heritage. Students rely on their perceptions of the environment, developed through increasing visual awareness and sensitivity to surroundings, memory, imagination, and life experiences, as a source for creating artworks. Students will express themselves using a variety of media working in 3-D as well as flat surfaces.

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#### **ART 7/8**

*GRADE PLACEMENT: 7-8*

*PREREQUISITE: None*

This course expands the student's knowledge of the artist's tools and techniques with design activities in collage, drawing, cartooning, painting, 3-D art and weaving. By analyzing artistic style and historical periods students develop respect for the traditions and contributions of diverse cultures.

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#### **Advanced Art**

*GRADE PLACEMENT: 7-8*

*PREREQUISITE: Teacher Recommendation and 1 year of prior Art instruction.*

This course will continue to expand and develop the student's knowledge of the artists' tools and techniques in different design activities. A more independent approach will be taken with projects as well as participation in global projects with other students from other schools in the United States and other countries. This course is offered by teacher recommendation and selection only and has a pre-requisite of at least one year of art in 6th or 7th grade.

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## THEATRE ARTS

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### THEATRE I

*GRADE PLACEMENT: 6-8*

*PREREQUISITE: None*

This course will develop creative expression and performance through a variety of theatrical experiences, students communicate in a dramatic form, make artistic choices, solve problems, build positive self- concepts, and relate interpersonally. Students will increase their understanding of heritage and traditions through historical and cultural studies in theatre. Students will be required to do one pep rally performance in the fall and one evening performance in the spring.

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### THEATRE ARTS II

*GRADE PLACEMENT: 7-8*

*PREREQUISITE: One year prior Theatre Arts instruction.*

This course provides theatrical experiences to develop sensory use of the body and voice, experiment with imitative and interpretive movement, utilize acting concepts and skills, and practice audience etiquette. Through perceptual studies, students increase their understanding of self and others and develop clear ideas about the world. Students will be required to do one pep rally performance in the fall and one evening performance in the spring.

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### THEATRE ARTS III

*GRADE PLACEMENT: 8*

*PREREQUISITE: Two years of prior Theatre Arts instruction.*

This course will develop creative expression and performance through a variety of theatrical experiences, students communicate in a dramatic form, make artistic choices, solve problems, build positive self-concepts, and relate interpersonally. Students will increase their understanding of heritage and traditions through historical and cultural studies in theatre. Students will be required to do one pep rally performance in the fall and one evening performance in the spring.

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### THEATRE PRODUCTION

*GRADE PLACEMENT: 8*

*PREREQUISITE: Two years of prior Theatre Arts instruction.*

Theatre Production is an advanced theatre class that is production intensive. Students of this class will be involved in approximately four plays and several public performances. Five evening performances are required of these students, as well as, a purchase of theatrical supplies. Two years of Theatre are recommended. Prerequisites for this class are: at least, one year of Theatre, a cover letter, a resume and students are required to audition in front of a panel of professional judges. Due to the nature and dynamics of the class, student enrollment does not exceed fifteen students.

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## CAREER PORTALS

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### Career Portals in Agriculture

*GRADE PLACEMENT: 8*

*PREREQUISITE: None*

*COURSE OFFERING SUBJECT TO TEACHER AVAILABILITY*

This course is intended to introduce students to a broad range of agriculturally oriented occupations and skills. It will explore the fields of animal and plant science, personal skills, leadership, and agricultural mechanics. This class is ideal for Sealy Jr FFA members to transition to FFA membership or any student interested in becoming an FFA member. **Junior FFA membership is encouraged.**

# ELECTIVES

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## PE/ATHLETICS

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Required: 1.5 Credits Total

6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>
Grade 6 PE	Grade 7 PE	Grade 8 PE
Grade 6 Pre-Athletics	Grade 7 Athletics	Grade 8 Athletics

*All SJH PE and Pre-Athletic/Athletic courses are gender specific.*

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### Grades 6-8 Physical Education (PE)

*GRADE PLACEMENT: 6-8*

*PREREQUISITE: None*

This course deals with knowledge and motor skills basic to efficient movements, physical fitness, and participation in individual and team sports, and leisure and lifetime sports. Students are required to dress out each day.

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### Pre-Athletics

*GRADE PLACEMENT: 6*

*PREREQUISITE: None*

In this course students will work to develop conditioning skills to promote competitive participation in UIL sports offered in grades 7-8 including but not limited to volleyball, football, basketball, and track. Students will learn team configurations, position-play, UIL rules and regulations, etc. This course is intended for students who plan to enter athletics in 7-8 grade.

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### Athletics

*GRADE PLACEMENT: 7-8*

*PREREQUISITE: None, pre-athletics is recommended*

All athletes, to be eligible to participate in athletics, must pass all subjects during the current six-week period. There is a three-week suspension from participation in athletic events with any failing report. **NO PASS, NO PLAY.** If a student athlete is not eligible for a semester, they may be subject to dismissal from the program. An athlete, who fails to participate in an athletic event throughout the year due to ineligibility, will be dismissed from the program.

All athletes must participate in two sports or have the approval of the Athletic Director to participate in sports after school only.

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## Course Descriptions

### ELECTIVES

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#### LANGUAGES OTHER THAN ENGLISH

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##### **Spanish 1**

**HIGH SCHOOL CREDIT:** 1.0

**GRADE PLACEMENT:** 8

**PREREQUISITE:** None

Successful completion of this course earns the student one **LOTE** (Language Other Than English) high school credit. This course offers a basic and moderate understanding of the Spanish language. This course also provides the opportunity for students to be exposed to the Hispano hablante world through a variety of culture activities. Students are introduced to basic Spanish grammar and apply it in a variety of formats. Students will be able to discuss everyday topics such as family, friends, school, time, weather, clothing, travel, animals, food, and health. The four language skills of listening, speaking, reading, and writing will be developed through this course. Semester exams will demonstrate mastery of the course content.

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##### **Spanish 1 for Spanish Speakers**

**HIGH SCHOOL CREDIT:** 1.0

**GRADE PLACEMENT:** 8

**PREREQUISITE:** *To enroll in this course, students must be fluent in the Spanish language.*

Successful completion of this course earns the student one **LOTE** (Language Other Than English) high school credit. - *Prerequisite: This course is designed for fluent Spanish speakers who do not require an emphasis on basic Spanish grammar, reading, writing, and speaking skills.*

Concentration is placed on advanced reading, writing, speaking, listening, and grammar skills. In addition, TEKS objectives within the LOTE curriculum are emphasized which will transfer to their English language skills. This course offers advanced understanding of the Spanish language through full immersion of the Hispanohablante world. Introduction to advanced grammar and vocabulary through geography, history, and culture activities for each Hispano hablante country. Semester exams will demonstrate mastery of the course content.

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## Course Descriptions

### ELECTIVES

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#### TECHONOLGY APPLICATIONS/CAREER PREPARATION

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##### **Tiger Tech/Journalism/Yearbook**

*GRADE PLACEMENT: 7-8*

*PREREQUISITE: Application and Teacher Recommendation*

*COURSE OFFERING SUBJECT TO TEACHER AVAILABILITY.*

This course will earn 1 local credit at the JH level- not to affect high school GPA. For one semester - 18 weeks- students will focus on technology skills including but not limited to: keyboarding practices, Microsoft Applications such as: Word, Excel, PowerPoint and Publisher, online applications such as Prezi, Google Classroom, and Movie Maker will be incorporated as well. The second semester will be 18 weeks of Yearbook. Students will learn design, photography and editing, layouts, graphics, business sales and marketing as well as programs like: Adobe InDesign, Photoshop, and Balfour Studio Works. Students will be expected to attend activities outside of the school day. Requirements: *This course is offered by teacher recommendation and selection only. Space will be limited. Interested students should apply.*

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## Course Descriptions

### ELECTIVES

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#### PROJECT LEAD THE WAY (PLTW)

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##### **Gateway to Technology 1: Design & Modeling**

**HIGH SCHOOL CREDIT: .5**

*GRADE PLACEMENT: 7-8*

*PREREQUISITE: None*

In this course students apply the design process to solve problems and understand the influence of creativity and innovation in their lives. They work in teams to design a playground and furniture, capturing research and ideas in their engineering notebooks. Using Autodesk design software, students create a virtual image of their designs and produce a portfolio to showcase their innovative solutions.

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##### **Gateway to Technology 2: Automation & Robotics**

**HIGH SCHOOL CREDIT: .5**

*GRADE PLACEMENT: 7-8*

*PREREQUISITE: Gateway to Technology Design & Modeling*

In this course students trace the history, development, and influence of automation and robotics as they learn about mechanical systems, energy transfer, machine automation, and computer control systems. Students use VEX Robotics platform to design, build, and program real-world objects such as traffic lights, toll booths, and robotic arms.

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##### **PLTW-Green Architecture**

**HIGH SCHOOL CREDIT: .5**

*GRADE PLACEMENT: 8*

*PREREQUISITE: Design & Modeling, Automation & Robotics.*

Today's students have grown up in an age of "green" choices. IN this unit, students learn how to apply this concept to the fields of architecture and construction by exploring dimensioning, measuring, and architectural sustainability as they design affordable housing units using Autodesk's 3D architectural design software.

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##### **Medical Detectives**

**HIGH SCHOOL CREDIT: .5**

*GRADE PLACEMENT: 8*

*PREREQUISITE: Design & Modeling, Automation & Robotics, Green Architecture*

Students play the role of real-life medical detectives as they analyze genetic testing results to diagnose disease and study DNA evidence at a "crime scene". They solve medical mysteries through hands-on projects and labs, investigate how to measure and interpret vital signs, and learn how the systems of the human body work together to maintain health.

## Section 2: High School

### **REQUIREMENTS FOR GRADUATION**

In compliance with Chapter 74, State Board of Education Rules for Curriculum, graduates of Sealy High School are all awarded the same type of diploma. The academic achievement record (transcript), rather than the diploma, records individual accomplishments, achievement, and courses completed. Beginning with the graduating class of 2018 and thereafter:

As required by the state under the Foundation High School Program, the District shall require 22 credits.

As required by the state under the Foundation High School Program with endorsement, the District shall require 26 credits.

Certificates of coursework completion shall be issued to senior students who successfully complete state and local credit requirements for graduation but who fail to perform satisfactorily on the exit-level instrument. The student's academic achievement record shall indicate the date on which the certificate was issued.

To be eligible to participate in graduation activities and ceremonies, a student shall have successfully completed all coursework required for graduation, passed all applicable state test required for graduation, and paid all applicable fees and fines in full. A student who is currently expelled shall not be eligible to participate in graduation activities and ceremonies.

All diplomas will be the same. The state will provide a seal that will be placed on the academic achievement record (transcript).

### **EARLY GRADUATION**

For the purpose of class rank a student must be classified as a senior (18+ credits and 4th year of high school) at the beginning of the school year to be considered a member of the graduating class. Class rank and honor graduate status will be determined by ranking the grades of the students who are members of the class in which he or she actually graduates. The student should have a conference with a counselor and have his/her parents sign a letter of intent. If the early graduate's grade average is a 4.0 or higher he/she will also be considered an honor graduate and will be recognized as such. Early graduates may not initially be on senior grade roll but will be added to the senior grade roll at second semester provided they are on track to fulfill graduation requirements.

# Requirements for Graduation

## ***Class of 2018, 2019, 2020, AND 2021***

Students entering 9<sup>th</sup> grade in the 2014-2015 school year and thereafter.

	<b>Foundation High School Program</b>	<b>Foundation Program w/ Endorsements</b>	<b>Distinguished Achievement</b>
<b>English Language Arts</b>	English I English II English III Advanced English	English I English II English III Advanced English	<b>Students must:</b>  Complete the Foundation Program
<b>Mathematics</b>	Algebra I Geometry Advanced Math	Algebra I Geometry Advanced Math Advanced Math	
<b>Science</b>	Biology IPC or Advanced Science Advanced Science	Biology IPC or Advanced Science Advanced Science Advanced Science	Complete one or more endorsements  Complete 4 science credits  Complete four math credits including Algebra II
<b>Social Studies</b>	World Geography or World History US History US Government (.5) Economics (.5)	World Geography or World History US History US Government (.5) Economics (.5)	<b>Performance Acknowledgements</b>
<b>Foreign Language</b>	2 years of the same language other than English	2 years of the same language other than English	Meeting requirements to be Determined by the State Board of Education for:  Outstanding Performance <ul style="list-style-type: none"> <li>• Dual Credit</li> <li>• Bilingualism and Biliteracy</li> <li>• On AP exams or IB exams</li> <li>• On PSAT, ACT-PLAN, SAT, or ACT.</li> <li>• On nationally or internationally recognized business or industry certification or license</li> </ul>
<b>Speech</b>	Professional Communications (.5)	Professional Communications (.5)	
<b>Fine Arts</b>	1 Credit	1 Credit	
<b>Physical Education</b>	1 Credit	1 Credit	
<b>Electives</b>	4.5 Credits	6.5 Credits	
<b>TOTAL</b>	22 Credits	26 Credits	
<b>State of Texas Assessment of Academic Readiness (STAAR) Mastery</b>	End-of-Course Exams <ul style="list-style-type: none"> <li>• English 1</li> <li>• English 2</li> <li>• Algebra 1</li> <li>• Biology</li> <li>• U.S. History</li> </ul>	End-of-Course Exams <ul style="list-style-type: none"> <li>• English 1</li> <li>• English 2</li> <li>• Algebra 1</li> <li>• Biology</li> <li>• U.S. History</li> </ul>	

\*A student entering Grade 9 in the 2014-2015 school year and thereafter shall enroll in courses necessary to complete the curriculum requirements for the Foundation High School Program and the curriculum requirements for at least one endorsement. A student may graduate under the Foundation High School Program without earning an endorsement if, after the student's sophomore year: (1) the student and the student's parent or person standing in parental relation to the student are advised by a school counselor of the specific benefits of graduating from high school with one or more endorsements; and (2) the student's parent or person standing in parental relation to the student files with a school counselor written permission, on a form adopted by the Texas Education Agency, allowing the student to graduate under the Foundation High School Program without earning an endorsement.

\*\*Students must graduate distinguished to be eligible for top 10% automatic admit in the state of Texas.

# Requirements for Graduation

## **Performance Acknowledgements**

### **Dual Credit**

A student may earn a performance acknowledgment on the student's diploma and transcript for outstanding performance in a dual credit course by successfully completing:

- 1) at least 12 hours of college academic courses, including those taken for dual credit as part of the Texas core curriculum, and advanced technical credit courses, including locally articulated courses, with a grade of the equivalent of 3.0 or higher on a scale of 4.0 or
- 2) an associate degree while in high school

### **Bilingualism and Biliteracy**

A student may earn a performance acknowledgment in bilingualism and biliteracy by demonstrating proficiency in accordance with local school district grading policy in two or more languages by:

- 1) Completing all English language arts requirements and maintaining a minimum grade point average (GPA) of the equivalent of 80 on a scale of 100; and
- 2) satisfying one of the following:
  - completion of a minimum of three credits in the same language in a language other than English with a minimum GPA of the equivalent of 80 on a scale of 100; or
  - demonstrated proficiency in the Texas Essential Knowledge and Skills for Level IV or higher in a language other than English with a minimum GPA of the equivalent of 80 on a scale of 100; or
  - completion of at least three credits in foundation subject area courses in a language other than English with a minimum GPA of 80 on a scale of 100; or
  - demonstrated proficiency in one or more languages other than English through one of the following methods:
    - a score of 3 or higher on a College Board AP exam for a language other than English; or
    - a score of 4 or higher on an IB exam for a higher-level languages other than English course; or
    - performance on a national assessment of language proficiency in a language other than English of at least Intermediate High or its equivalent

In addition to meeting the requirements to earn a performance acknowledgment in bilingualism and biliteracy, and English language learner must also have;

- A.) participated in and met the exit criteria for a bilingual or English as a second language (ESL) program; and
- B.) scored at the Advanced High level on the Texas English Language Proficiency Assessment System (TELPAS).

### **AP exams or IB exams**

A student may earn a performance acknowledgment on the student's diploma and transcript for outstanding performance on a College Board advanced placement test or International Baccalaureate examination by earning:

- 1) a score of 3 or above on a College Board advanced placement examination
- 2) a score of 4 or above on an International Baccalaureate examination



### **PSAT, ACT-PLAN, SAT or ACT**

A student may earn a performance acknowledgment on the student's diploma and transcript for outstanding performance on the PSAT (R), the SAT, or the ACT by:

- 1.) earning 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, as part of the National Hispanic Recognition Program (NHRP) of the College Board or as part of the National Achievement Scholarship Program of the National Merit Scholarship Corporation
- 2.) achieving the college readiness benchmark score on at least two of the four subject tests on the ACT-PLAN examination
- 3.) earning a combined critical reading and mathematics score of at least 1250 on the SAT; or
- 4.) earning a composite score on the ACT examination of 28 (excluding the writing subscore)

### **nationally or internationally recognized business or industry certification or license**

A student may earn a performance acknowledgment on the student's diploma and transcript for earning a nationally or internationally recognized business or industry certification or license with:

- 1.) performance on an examination or series of examinations sufficient to obtain a nationally or internationally recognized business or industry certification or
- 2.) performance on an examination sufficient to obtain a government required credential to practice a profession

Nationally or internationally recognized business or industry certification shall be defined as an industry validated credential that complies with knowledge and skills standards promulgated by a nationally or internationally recognized business, industry, professional, or government entity representing a particular profession or occupation that is issued by or endorsed by:

- a national or international business, industry, or professional organization
- a state agency or other government entity or
- a state-based industry association

Certifications or licensures for performance acknowledgments shall:

- be age appropriate for high school students
- represent a student's substantial course of study and/or end-of-program knowledge and skills
- include an industry recognized examination or series of examinations, an industry validated skill test, or demonstrated proficiency through documented, supervised field experience and
- represent substantial knowledge and multiple skills needed for successful entry into a high-skill occupation

## Arts & Humanities Endorsement

\*Required electives have been placed in a recommended sequence, but may be moved to best meet the needs and interests of the students.

Period	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
1	English 1/ English 1 PAP	English 2/ English 2 PAP	English 3/ English 3 AP	Advanced English/ English 4 AP/DC
2	Algebra 1/ Geometry/ Geometry PAP	Geometry/ Geometry PAP/ Advanced Math/ Advanced Math PAP	Advanced Math/ Advanced Math PAP/AP	Advanced Math/ Advanced Math PAP/AP
3	Biology/ Biology PAP	IPC/ Advanced 2 <sup>nd</sup> Science/ Advanced Science PAP	Advanced 3 <sup>rd</sup> Science/ Advanced 3 <sup>rd</sup> Science PAP/AP	Advanced 4 <sup>th</sup> Science/ Advanced 4 <sup>th</sup> Science PAP/AP
4	World Geography/ World Geography PAP Or Elective	World History/ World History PAP or Elective	US History/ US History AP/DC	Government/ Economics Government AP/DC/ Economics AP/DC
5	Language Other Than English 1*	Language Other Than English 2*	Elective	Elective
6	Physical Education*	Fine Art*	Elective	Elective
7	Speech*/Elective	Elective	Elective	Elective

Students must follow one of the following options:

1. Five social studies courses
2. Four levels of the same language other than English
  1. Two levels of the same language other than English and two levels of a different language other than English
  2. Coherent sequence of four credits by selecting courses from one or two categories or disciplines in fine arts

## Business & Industry Endorsement

Period	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
1	English 1/ English 1 PAP	English 2/ English 2 PAP	English 3/ English 3 AP	Advanced English/ English 4 AP/DC
2	Algebra 1/ Geometry/ Geometry PAP	Geometry/ Geometry PAP/ Advanced Math/ Advanced Math PAP	Advanced Math/ Advanced Math PAP/AP	Advanced Math/ Advanced Math PAP/AP
3	Biology/ Biology PAP	IPC/ Advanced 2 <sup>nd</sup> Science/ Advanced Science PAP	Advanced 3 <sup>rd</sup> Science/ Advanced 3 <sup>rd</sup> Science PAP/AP	Advanced 4 <sup>th</sup> Science/ Advanced 4 <sup>th</sup> Science PAP/AP
4	World Geography/ World Geography PAP Or Elective	World History/ World History PAP or Elective	US History/ US History AP/DC	Government/ Economics Government AP/DC/ Economics AP/DC
5	Language Other Than English 1*	Language Other Than English 2*	Elective	Elective
6	Physical Education*	Fine Art*	Elective	Elective
7	Speech*/Elective	Elective	Elective	Elective

\*Required electives have been placed in a recommended sequence, but may be moved to best meet the needs and interests of the students.

Students must follow one of the following options:

1. Business & Industry Electives must be a coherent sequence of four or more credits or at least two courses in the same career cluster including at least one advanced CTE course which includes any course that is the third or higher course in a sequence. The final course in the sequence must be selected from one of the following:
  - a. Agriculture, Food, & Natural Resources
  - b. Architecture & Construction
  - c. Arts, Audio/Video Technology, & Communications
  - d. Business Management & Administration
  - e. Transportation, Distribution, & Logistics
  - f. Marketing
  - g. Information Technology
  - h. Manufacturing
  - i. Hospitality & Tourism
  - j. Finance
2. Four English elective credits by selecting three levels in Advanced Journalism
3. A coherent sequence of four credits from 1 or 2 above

# House Bill 5 Graduation Requirements and Endorsement Options

## Multidisciplinary Endorsement

Period	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
1	English 1/ English 1 PAP	English 2/ English 2 PAP	English 3/ English 3 AP	Advanced English/ English 4 AP/DC
2	Algebra 1/ Geometry/ Geometry PAP	Geometry/ Geometry PAP/ Advanced Math/ Advanced Math PAP	Advanced Math/ Advanced Math PAP/AP	Advanced Math/ Advanced Math PAP/AP
3	Biology/ Biology PAP	IPC/Advanced 2 <sup>nd</sup> Science/ Advanced Science PAP	Advanced 3 <sup>rd</sup> Science/ Advanced 3 <sup>rd</sup> Science PAP/AP	Advanced 4 <sup>th</sup> Science/ Advanced 4 <sup>th</sup> Science PAP/AP
4	World Geography/ World Geography PAP Or Elective	World History/ World History PAP or Elective	US History/ US History AP/DC	Government/ Economics Government AP/DC/ Economics AP/DC
5	Language Other Than English 1*	Language Other Than English 2*	Elective	Elective
6	Physical Education*	Fine Art*	Elective	Elective
7	Speech*/Elective	Elective	Elective	Elective

\*Required electives have been placed in a recommended sequence, but may be moved to best meet the needs and interests of the students.

Students must follow one of the following options:

1. Four advanced courses
2. Four credits in each of the core subjects including English 4, chemistry and/or physics
3. Four credits in advanced placement or dual credit

# House Bill 5 Graduation Requirements and Endorsement Options

## Public Services Endorsement

Period	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
1	English 1/ English 1 PAP	English 2/ English 2 PAP	English 3/ English 3 AP	Advanced English/ English 4 AP/DC
2	Algebra 1/ Geometry/ Geometry PAP	Geometry/ Geometry PAP/ Advanced Math/ Advanced Math PAP	Advanced Math/ Advanced Math PAP/AP	Advanced Math/ Advanced Math PAP/AP
3	Biology/ Biology PAP	IPC/ Advanced 2 <sup>nd</sup> Science/ Advanced Science PAP	Advanced 3 <sup>rd</sup> Science/ Advanced 3 <sup>rd</sup> Science PAP/AP	Advanced 4 <sup>th</sup> Science/ Advanced 4 <sup>th</sup> Science PAP/AP
4	World Geography/ World Geography PAP Or Elective	World History/ World History PAP or Elective	US History/ US History AP/DC	Government/ Economics Government AP/DC/ Economics AP/DC
5	Language Other Than English 1*	Language Other Than English 2*	Elective	Elective
6	Physical Education*	Fine Art*	Elective	Elective
7	Speech*/Elective	Elective	Elective	Elective

\*Required electives have been placed in a recommended sequence, but may be moved to best meet the needs and interests of the students.

Public Services Electives must be a coherent sequence of four or more credits or at least two courses in the same career cluster including at least one advanced CTE course which includes any course that is the third or higher course in a sequence

Career Prep, Principles and Elements of Floral Design, Professional Communications, and a Technology Course can be added to all of the coherent sequences

### STEM Endorsement

Period	9 <sup>th</sup> Grade	10 <sup>th</sup> Grade	11 <sup>th</sup> Grade	12 <sup>th</sup> Grade
1	English 1/ English 1 PAP	English 2/ English 2 PAP	English 3/ English 3 AP	Advanced English/ English 4 AP/DC
2	Algebra 1/ Geometry/ Geometry PAP	Geometry/ Geometry PAP/ Algebra 2/ Algebra 2 PAP	Algebra 2/ Algebra 2 PAP Advanced Math/ Advanced Math PAP/AP	Algebra 2/ Algebra 2 PAP Advanced Math/ Advanced Math PAP/AP
3	Biology/ Biology PAP	IPC/ Chemistry/ Chemistry PAP	Chemistry/Chemistry PAP/ Physics/Physics PAP Advanced 3 <sup>rd</sup> Science/ Advanced 3 <sup>rd</sup> Science AP	Chemistry/Chemistry PAP/ Physics/Physics PAP Advanced 4 <sup>th</sup> Science/ Advanced 4 <sup>th</sup> Science AP
4	World Geography/ World Geography PAP Or Elective	World History/ World History PAP or Elective	US History/ US History AP/DC	Government/ Economics Government AP/DC/ Economics AP/DC
5	Language Other Than English 1*	Language Other Than English 2*	Elective	Elective
6	Physical Education*	Fine Art*	Elective	Elective
7	Speech*/Elective	Elective	Elective	Elective

\*Required electives have been placed in a recommended sequence, but may be moved to best meet the needs and interests of the students.

STEM endorsement must include Algebra 2, chemistry, and physics, and students must follow one of the following options:

1. STEM Endorsement Electives must be a coherent sequence of four or more credits in CTE that consist of at least two courses in the same career cluster including at least one advanced CTE course which includes any course that is the third or higher course in a sequence
2. A total of five credits in mathematics by successfully completing Algebra 1, geometry, Algebra 2, and two additional mathematics courses for which Algebra 2 is a prerequisite.
3. A total of five credits in science by successfully completing biology, chemistry, physics, and two additional science courses.
4. In addition to Algebra 2, chemistry, and physics, a coherent sequence of three additional credits from no more than two of the areas listed above

## Foundation Graduation Plan Advanced Course Offerings

Advanced English Language Arts	
English 4	Advanced Journalism: Yearbook 3
AP English Literature and Composition	College Prep ELA [pursuant to TEC, §28.014]
Dual Credit English	

Advanced Third Mathematics Credit	
Mathematical Models with Applications	Algebra 2/Algebra 2 Pre-AP
Financial Math	

Additional Advanced Mathematics Credit to Earn an Endorsement	
Algebra 2/Algebra 2 Pre-AP	AP Calculus AB
Statistics	Pre-Calculus/Pre-Calculus Pre-AP
AP Statistics	

Advanced Second Science Credit	
Integrated Physics and Chemistry (IPC)	Chemistry/Chemistry Pre-AP

Advanced Third and Fourth Science Credit	
Chemistry /Chemistry Pre-AP	Advanced Animal Science
Physics /Physics Pre-AP	Advanced Plant and Soil Science
Aquatic Science	Anatomy and Physiology
Earth and Space Science	Food Science
Environmental Systems	Principles of Technology
AP Biology	AP Physics 1: Algebra-Based
AP Chemistry	Dual Credit Geology

## Dual Credit

### **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 the TSI assessment by achieving any of the requirements

SAT - combined verbal/math score of 1070 with a minimum of 500 on both the verbal and mathematics tests;

ACT - composite of 23 with a minimum of 19 on both the English and mathematics tests; or

### **Dual Credit Courses**

Students are responsible for checking and ensuring that the college they are planning to attend will accept transfer credits from Blinn College.

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 an academic course of the same type (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.

At the end of the first semester, a student may exit a dual credit course in which he/she is enrolled and move to an academic course.

After the first two weeks of each semester, no schedule changes will be made, and the student must remain in the dual credit course in which he/she is enrolled until the end of the semester.

If a student receives a grade in a dual credit class that is a 69 or below, that student will not receive high school credit for that course and will have to recover that semester credit at the high school campus for a maximum grade of a 70.

Students must be enrolled in a minimum of one dual credit course in order to attend classes at Blinn College during the school day.



## Grading System and Credit Received

All grades in all courses will be numeric. A grade below 70 is a failing grade. Numeric grades will be recorded on student transcript.

For all one credit courses, the course grade will be determined by averaging 1st & 2nd semester grades. The credit awarded will be 1.0 if the course grade is 70 or higher. No credit will be awarded (0.0) if the course grade is below 70. A student who is able to successfully complete only one semester of a two-semester course can be awarded credit proportionately. For all one semester courses, the semester average is the grade for the course. Credits for students in grades 9-12 are awarded on a semester by semester basis—.5 credit per semester. However, if a student fails the first semester of a full-year course and passes the second semester, the two semester grades will be averaged to determine whether the student has earned a passing grade for the year; i.e., if a student makes a 68 for the first semester and a 72 the second semester, the student has earned the full credit because he/she passed the second semester with a grade high enough to give him/her at least a 70 average. If a student passes the first semester of a full-year course but fails the second semester, the second semester grade cannot be averaged, and the student must repeat the second semester of the course. Each individual semester grade earned is included in the calculation of a student's GPA. A student's semester grade is the average of the two nine week grades and the grade on the final examination (1/7<sup>th</sup>).

All grades between 90 and 100 will be considered A (excellent). Grades between 80 and 89 will be considered B (above average). Grades between 75 and 79 will be considered C (average). Grades between a 70 and 74 will be considered a D (below average). Grades 69 or lower are E (failing).

# Class Rank and Top Ten Percent

## Class of 2018, Class of 2019, Class of 2020 and, Class of 2021

**CLASS RANK  
CALCULATION**

The District shall include in the calculation of class rank grades earned in all high school credit courses taken in grades 9–12.

**Calculating GPA-  
Addition of Waiver  
option for the class  
of 2019 and beyond:**

**Beginning with students graduating in 2019, an eligible student may apply to have a course or courses exempt from the class rank calculation in accordance with administrative regulations.**

**Sealy ISD strives to encourage students to pursue their areas of special talents and interests to enrich their academic achievement. To encourage students to maintain their participation in these classes, the district allows seniors to participate in a non-weighted elective on a GPA-exempt basis.**

**To be eligible to apply for a GPA exemption, students must have above a 4.0 at the conclusion of their junior year of high school, and must achieve and 80 semester average or higher for the course.**

**Students who elect this option must complete an application and return it to the school counselor’s office by the end of the third week of each semester. Each student is only permitted to exempt 1.0 credit during his or her high school career.**

**WEIGHTS FOR GPA  
COMPUTATION**

All students graduating from high school shall be assigned a class rank in accordance with legal and local requirements.

For the purpose of determining honors to be conferred during graduation activities, the District shall calculate class rank using grades available at the time of calculation. For this purpose, second semester averages shall be computed using grades at the end of the third nine-week grading period and grades from the second progress report of the fourth nine-week grading period, including final grades for dual credit courses.

A weighted scale shall be used for specific courses, as indicated on the chart below, for computing class rank:

The point system for purposes of class ranking shall be as follows:

Number Grade	Resource & Life Skills Classes	Academic Classes	Pre-AP	AP, Dual Credit
90-100	3.0	4.0	5.0	5.5
80-89	2.0	3.0	4.0	4.5
75-79	1.0	2.0	3.0	3.5
70-74	1.0	1.0	2.0	2.5
69-Below	0	0	0	0

**T  
OP TEN PERCENT**

Students in the top ten percent of the graduating class shall qualify for automatic admission in a general, Texas academic institution. Individual colleges may have more stringent entrance requirements.\*

\*The University of Texas at Austin may limit the number of students automatically admitted to 75 percent of the university’s enrollment capacity for incoming resident freshmen.

ACADEMIC HONORS

To be eligible for academic honors, a student shall:

1. Have met all coursework and exit-level testing requirements in an accredited high school;
2. Have been enrolled in the district for his or her entire senior year;
3. Have maintained an academic average of **4.0** or above during his or her course of study in high school.

Serious misconduct that results removal to a DAEP or expulsion may disqualify a student from academic honors status.

The superintendent shall give final approval to candidates for academic honors based on the recommendation of the principal.

VALEDICTORIAN AND SALUTATORIAN

The honor students with the highest and second highest GPA, who meet the eligibility criteria for academic honors and who have been enrolled in the district for their entire junior and senior year, shall be named valedictorian and salutatorian. Three-year graduates are not eligible for academic honors.

BREAKING A TIE

In case of a tie in weighted GPAs, the District shall apply the following methods, in this order, to determine recognition as valedictorian or salutatorian:

1. Compute the weighted GPA to a sufficient number of decimal places until the tie is broken.
2. Calculate a weighted GPA only using eligible grades earned in English, mathematics, science, social studies, and languages other than English.
3. Calculate a weighted GPA using all dual credit and Advanced Placement (AP) courses.

If the tie is not broken after applying these methods, the District shall recognize all students involved in the tie as co-valedictorians, and no salutatorian shall be named.

In case of a tie for salutatorian honors, if the tie is not broken after applying these methods, the District shall recognize all students involved in the tie as co-salutatorians.

**Calculating GPA- for the class of 2019 and 2020**

Beginning with students graduating in 2019, in case of a tie in weighted GPAs, to determine valedictorian honors, the District shall compute the numeric semester average of all classes taken for high school in grades 9–12, excluding courses that have been waived from the class rank calculation. If the tie is not broken, the District shall recognize all students involved in the tie as co-valedictorians and no salutatorian shall be named.

RANKING FOR EARLY GRADUATES

A student who completes the high school program requirements in fewer than four years shall be ranked in the class with which he or she actually graduates.

For two school years following their graduation, district graduates who ranked in the top ten percent of their graduating class are eligible for admission into four-year public universities and colleges in Texas. Students and parents should contact the counselor for further information about how to apply and the deadline for application. Individual colleges may have more stringent entrance requirements. [For further information, see policies at EIC.]

## Grade Classification

Each student will be classified in a grade according to the number of credits which he/she has received in high school.

CLASS	CREDITS
Freshman	0-5.5
Sophomore	6-11.5
Junior	12-17.5
Senior	18 or more

### HONOR ROLL

1. All A Honor Roll - All grades 90 or above with minimum of four (4) academic courses.
2. A/B Honor Roll - all grades 80 or above.

### TRANSFER STUDENTS

Credit will be given to all students who transfer to Sealy High School for all courses that were credited at the school transferred from, provided that the courses are state approved or from an accredited school. (It will be recorded on the Sealy High School transcript exactly as it was on the prior school's transcript.)

Sealy High School will convert the student's grade to its grading system to determine the yearly average and the four year average.

Transfer grades which are letter grades will be converted to number grades using the following:

A=95

B=85

C=75

D=70

F=65

When students transfer to Sealy High School from schools that offer honors, Pre-AP, AP, advanced or accelerated courses, they must provide from the transferring school records showing the advanced courses completed. Grades will be recorded as they appear on the transcript and will determine the yearly average using Sealy High School's weighted grading scale.

Students who transfer from non-accredited schools and/or home school will not receive credit for courses unless they can display mastery of the essential elements in all courses through credit by examination. If credit is granted, the grades will not be counted in determining the yearly GPA.

# Pre-AP and Advanced Placement Guidelines

## Pre-AP/AP Courses

Pre-Advanced Placement/Advanced Placement (Pre-AP/AP) courses help students acquire the skills and habits needed to be successful in college. Student participation in these college-readiness courses will improve writing skills, sharpen problem-solving abilities, and develop time management skills, discipline, and study habits. Pre-AP/AP courses are characterized by an immersion in college-level content, an accelerated pace, and a performance assessment at the synthesis and evaluative levels.

Students enrolled in a Pre-AP/AP course understand:

- that summer assignments must be completed by the due date. Failure to do so may result in removal from that course on the first day of school.
- that the course may seem challenging at first and initial grades may not reflect later grades.
- the level of commitment required for the course and accept the academic challenges.
- the importance of attending tutorials for additional support.
- that a request to move from a Pre-AP/AP course to an academic level course will only be considered at the end of the first three weeks of that course, at the end of the 1<sup>st</sup> 6 weeks on teacher recommendation only, and the end of the first semester.

## Entrance Guidelines for High School Pre-AP/AP Courses

The purpose of the Pre-AP/AP entrance and exit guidelines is to provide placement information to facilitate student success in academically challenging courses. Pre-AP and AP courses are designed to challenge motivated students and prepare them for success in college-level coursework taken during high school and thereafter. In order to assist in the placement decision, these entrance guidelines are intended to provide a profile of students who typically experience success in Pre-AP and AP courses.

These guidelines are recommendations. Our policy is open enrollment in Pre-AP and AP Courses.

1. Prerequisite coursework is successfully completed.
2. Current or previous performance in related content area course:
  - A semester average of 90 -100 in an academic course OR
  - semester average of 80 or above in a Pre-AP course.
3. For science placement only, current or previous performance in math course:
  - A semester average of 90 -100 in an academic course OR
  - semester average of 80 or above in a Pre-AP course.
4. 85th percentile or above on the most recent standardized achievement test or other district- identified testing measure.

Questions about course placement should be directed to the counselor.

**NOTE:** Due to the curricular differences between academic and Pre-AP courses and for the benefit of students, entry into a Pre-AP course from an academic course is limited to the beginning of each semester. It is recommended that students enter advanced placement courses at the beginning of the course, typically in the first week of instruction. Exceptions must have principal approval.

## Exit Guidelines for High School Pre-AP/AP Courses

Students petitioning to exit a Pre-AP or AP course may do so only at the end of the first three weeks of that course. At the end of the first 6 weeks of the course students who have below a 75 average will be placed on probationary enrollment in the course and may be recommended for removal to an equivalent academic level course based on the teacher's recommendation. Students who have failed a Pre-AP or AP course for the semester will be transferred to an equivalent academic level class prior to the start of the second semester and parents will be informed of this change. Students who remain on probation with an average of below 75 may be recommended for removal to an equivalent academic on-level class at the semester transition based on the teacher's recommendation. If the request for removal is approved, schedule changes will be subject to course availability. The student's grade will be transferred as it exists on the date the schedule change is made without the weighted component. Weighted points will be added if the student has completed the semester. The student must obtain the required signatures and return it to his/her counselor.

## Additional Information

### **CREDIT BY EXAMINATION**

Students may use credit by examination to earn credit in any academic course at the secondary level, with the prior approval of the appropriate administrator. Such examinations shall assess the student's mastery of the essential knowledge and skills and shall be approved by the Superintendent or designee.

To be eligible to earn credit by examinations, a student shall have had prior instruction in the subject or course, as determined by the District on the basis of a review of the student's education records.

Credit by examination shall not be used to gain eligibility for participation in extracurricular activities.

To receive credit, students shall score a grade of 70 or above on the examination.

Tests shall be administered according to procedures approved by the Superintendent or designee.

### **EXAMINATION FOR ACCELERATION**

The District shall give a student in grades 9-12 credit for a course in which the student has received no prior instruction if the student scores 90 percent or above on a criterion-referenced Examination for Acceleration for the applicable course. If such credit is given, the District shall enter the examination score on the student's transcript.

In accordance with the Texas Education Code 28.023; 19 TAC 74.24 and the Sealy ISD Board Policy Manual EEJB (LEGAL), Sealy High School will administer exams for acceleration without prior instruction at least three days between January 1 and June 30 and three days between July 1 and December 31 annually.

### **TEXAS VIRTUAL SCHOOL NETWORK**

Texas Virtual School Network (TXVSN) provides online classes for students in order to offer another avenue for students to pursue their academic goals. Success in the virtual learning environment requires that students have effective time-management skills, writing and reading competence, computer skills and task commitment. For additional information please see your counselor and visit the Texas Virtual School website at [www.TXVSN.org](http://www.TXVSN.org).

### **NATIONAL COLLEGIATE ATHLETIC ASSOCIATION**

Students planning to pursue athletics and/or athletic scholarships at the collegiate level must be aware of core curriculum and GPA requirements. Students must register with NCAA by the end of their Junior year. Interested students should the visit the NCAA website at [www.eligibilitycenter.org](http://www.eligibilitycenter.org) for further information and instructions.

## Course Fees

Some courses require a fee to cover cost of students' materials. Please refer to the courses below:

<b>Course Name</b>	<b>Fee</b>
Art 1 & 2	\$10.00/semester
Art 3 & 4	15.00/semester
Agricultural Mechanics	\$25.00/year
AP Art 2-Dimensional Portfolio & Studio Art	\$20.00/semester
AP Art History	\$5.00/semester
Choir	\$20.00/year
Construction Technology I	\$25.00/year
Construction Technology II	\$25.00/year
Culinary Arts	\$25.00/year
Introduction to Culinary Arts	\$25.00/year
Introduction to Welding	\$25.00/year

<b>Course Name</b>	<b>Fee</b>
Family and Community Services	\$25.00/year
Fashion Design I	\$25.00/year
Floral Design	\$25.00/year
Food Science	\$25.00/year
Principles of Construction	\$25.00/year
Practicum in Agriculture	\$25.00/year
Practicum in Construction Technology	\$25.00/year
Principles of Human Services	\$25.00/year
Theatre Production	\$25.00/year
Welding I	\$25.00/year
Welding II	\$25.00/year

## Standardized Assessments: STAAR End-of-Course Exams

Students must take five End of Course exams in order to graduate from high school in the State of Texas. Students must meet the Level II standard in the following courses: English 1, English 2, Algebra 1, Biology, and US History. Student will take exams each year for the courses that they are currently enrolled in.

Please visit <http://tea.texas.gov/student.assessment/staar/performance-standards/> for the current STAAR EOC passing standards.

## Advanced Academic Programs

### ACADEMIC EXCELLENCE

The Academic Excellence course of study is designed to provide university/college readiness by adopting instruction aligned to national standards, featuring curriculum aligned with university standards. Advanced Placement, as developed by the College Board Inc., provides the basic structure. Four years of Pre-AP/AP/DC preparation with personal mentoring and guidance by faculty and counselors provides the foundation for success in higher education.

Students follow the Academic Excellence course of study to gain a competitive advantage and develop confidence in their ability to do college work. This is especially important if they are seeking entry into competitive professional careers.

The Sealy ISD Academic Excellence course of study trains students in the skills necessary for success in higher education. It is specifically not a competitive honors program but a course of study open to any student who wants to prepare for college/university level work. The focus prepares students for college work at national standards.

Students are also encouraged to follow this course of study if they are interested in entering today's high-tech vocational fields.

Participation consists of taking the prerequisite Pre-AP and AP courses in math, science, English language arts, social studies and foreign language that lead to AP exams or comparable dual credit courses.

Privileges for eligible participants\*:

- Advanced Placement testing is paid for by the district.
- Participants\* are eligible to purchase an Academic Excellence patch.
- Participants\* are eligible to receive Academic Excellence cords at graduation.

\*Participants must successfully complete a total of at least 8 credits in Pre-AP/AP/Dual Credit classes, of which at least 2 credits must be AP or dual credit.

### Gifted and Talented

Identified gifted and talented students are served in their areas of strength in the Pre-AP and AP classes in the four academic content areas. At the high school level, the gifted and talented students may also enroll in dual enrollment classes. Teachers of the Pre-AP and AP courses have received the state-required gifted and talented training.

All students identified as gifted and talented have the option of advanced classes (Pre-AP, AP, or dual credit) in all core areas.

These advanced classes contain students who have been identified as GT as well as other high achieving students. All other students are mixed heterogeneously. The GT students are given assignments that require them to work alone, with others, or as a class.

Gifted and talented high school students will be expected to take Pre-AP and AP courses whenever these courses are offered in the area that they have been identified as gifted.

Other options for secondary students include enrollment in dual credit courses, participation in UIL academic activities, credits by examination, and early high school graduation.



## Course Descriptions

Offering of courses, excluding those required by TEA, are subject to student course enrollment.

Course sequences are recommendations based on best practices.

Career and Technology pathways may be adapted to meet the needs of the students.

# Course Descriptions

## ENGLISH / LANGUAGE ARTS

Required: 4 Credits

Credits must include: English 1, English 2, English 3, English 4

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
English 1	English 2	English 3	English 4
English 1 Pre-AP	English 2 Pre-AP	AP English Language and Composition	AP English Literature and Composition Dual Credit English

*Depicts preferred course sequences*

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### 1001 ENGLISH 1

*CREDIT: 1*

*GRADE PLACEMENT: 9*

*PREREQUISITE: None*

*STAAR EOC Course*

English 1 is a study of the genre of literature (short stories, novel, poetry, and drama) and identification of literary elements and techniques found in these different types of literature. This course also includes a study of and practice in the writing process including research reports. The emphasis is on reading and writing and the ultimate goal is to provide each student with the capability to write responsively to both literary and expository writing prompts.

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### 1005 ENGLISH 1 Pre-AP

*CREDIT: 1*

*GRADE PLACEMENT: 9*

*PREREQUISITE: Pre-AP Guidelines Recommended/Completion of Summer Assignments*

*STAAR EOC Course*

English 1 Pre-AP is an entry level course for college bound students who wish to study a variety of literary genres. This course stresses analysis of fiction and non-fiction selections and introduces students to a variety of writing modes. Students will also complete several projects involving research and will complete an SAT skills review. **Students must complete a summer reading assignment to be determined each spring. Students may be required to purchase novels.**

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### 1002 ENGLISH 2

*CREDIT: 1*

*GRADE PLACEMENT: 10*

*PREREQUISITE: English 1*

*STAAR EOC Course*

English 2 is a continuation of the study of different genres of literature, including short stories, novels, poetry and drama. Students will learn to identify literary elements and techniques used in these different types of literature and how to better understand what they read. Students will also expand their vocabularies, further develop their writing skills through numerous essay assignments, and write a research paper. Class projects will be assigned in conjunction with the major works read in class. Emphasis will be placed on improving written responses to a variety of literary and expository prompts.

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## Course Descriptions

### ENGLISH / LANGUAGE ARTS

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#### 1006 ENGLISH 2 Pre-AP

*CREDIT: 1*

*GRADE PLACEMENT: 10*

*PREREQUISITE: English 1 and Pre-AP Guidelines Recommended/Completion of Summer Assignments*

*STAAR EOC Course*

In addition to regular course work in English 2, English 2 Pre-AP students cover additional novels and dramatic works. They also study a larger quantity of other literary types. Emphasis is on critical thinking and writing. Also included are creative projects, a career planning project, and a research report. **Students must complete a summer reading assignment to be determined each spring. Students may be required to purchase novels.**

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#### 1003 ENGLISH 3

*CREDIT: 1*

*GRADE PLACEMENT: 11*

*PREREQUISITE: English 2*

*STAAR EOC Course*

All eleventh grade classes will emphasize the reading and study of American literature. Emphasis will be placed on continuing development of reading and writing skills. Studies of American literature will be linked to brief reviews of historical and social developments of the nation. Essay writing of various types will be based on both personal writings and the literature assigned. A fully documented research paper is a major focus of English 3. Literature assignments will include a variety of genres.

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#### 1010 ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION

*CREDIT: 1*

*GRADE PLACEMENT: 11*

*PREREQUISITE: English 2 and Pre-AP/AP Guidelines Recommended*

*STAAR EOC Course*

The Advanced Placement English Language and Composition course is designed to help students become skilled readers of American Literature written in a variety of periods, disciplines, and rhetorical contexts and to become skilled writers who can compose for a variety of purposes. By their writing and reading in this course, students should become aware of the interactions among a writer's purposes, audience expectations, and subjects, as well as the way generic conventions and the resources of language contribute to effective writing. In addition, students will prepare for the AP Language and Composition Examination, with an emphasis on writing under time constraints. The number of major works required of the students during the school year will be typically 5-8. **Students must complete a summer reading assignment to be determined each spring. Students may be required to purchase novels.**

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#### 1004 ENGLISH 4

*CREDIT: 1*

*GRADE PLACEMENT: 12*

*PREREQUISITE: English 3*

This course is designed for both the college bound and the non-college bound student. It includes a survey of British history and literature beginning with the Anglo-Saxon age. Development of critical thinking skills and practice with the composing process are emphasized. A fully documented research paper is a major focus of English 4.

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## Course Descriptions

### ENGLISH / LANGUAGE ARTS

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#### **1020 ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION**

*CREDIT: 1*

*GRADE PLACEMENT: 12*

*PREREQUISITE: English 3 or AP English Language and Composition and Pre-AP/AP Guidelines Recommended/Completion of Summer Assignments*

English 4 is an advanced course designed to prepare students for college composition and literature courses. Students will complete in-depth analysis of selections from British and World literature. In addition, students will write a variety of compositions. Writing to explain a literary work will involve analysis and interpretation of meaning, and to analyze how that meaning is embodied in literary form. Writing to explain a literary work will involve analysis and interpretation of meaning, as well as how various aspects of language and structure affect meaning. Students writing will include expository, analytical, and argumentative essays. In addition, students will prepare for the AP Literature and Composition examination, with an emphasis on writing under time constraints. The number of major works required of the students during the school year will be typically 6-12. **Students must complete a summer reading assignment to be determined each spring. Students may be required to purchase novels.**

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#### **1009 DUAL CREDIT ENGLISH 4**

*CREDIT: .5 PER SEMESTER/ 3 HOURS COLLEGE CREDIT PER SEMESTER*

*GRADE PLACEMENT: 12*

*PREREQUISITE: Blinn entrance requirements, senior classification, and TSI assessment*

##### **ENG 1301 – 1 semester course – offered 1<sup>st</sup> semester only**

- A course devoted to developing students' writing skills
- Emphasis on composition, ranging from 5-7 paragraphs in length (500-750 words)
- Accelerated review of sentence structure, usage and punctuation
- Fulfills one-half credit of English 4 a requirement Blinn core curriculum course, three (3) Blinn College semester hours credit
- May provide students with the same college credit as a qualifying score on the AP English Language Exam. Check with college/university policies before enrolling

##### **ENG 1302 – 1 semester course – offered 2<sup>nd</sup> semester only**

- Continuation of Blinn English 1301
  - Emphasis on persuasive and analytical techniques, stylistic devices, and research
  - Fulfills one-half credit of English 4B requirement
  - Blinn core curriculum course, three (3) Blinn College semester hours credit
  - May provide students with the same college credit as a qualifying score on the AP English Language Exam. Check with college/university policies before enrolling
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#### **ADVANCED JOURNALISM**

**1041 – 1<sup>st</sup> year**

**1042 – 2<sup>nd</sup> year**

**1043 – 3<sup>rd</sup> year**

*CREDIT: .5-1*

*GRADE PLACEMENT: 9 - 12*

*PREREQUISITE: Application*

Advanced Journalism courses are Newspaper (1, 2, or 3) or Yearbook (1, 2, or 3). Students enrolled in these courses will be involved in all phases of planning and production of a campus newspaper or yearbook publication. Courses are based heavily on writing activities, with correct use of the conventions and mechanics of written English emphasized. Students will be introduced to the basics of desktop publishing and photography, learn updated publishing trends, and work on sales campaigns for advertising and their finished publications. Journalistic ethics and standards are stressed. Course admission requirements include: grade level of sophomore or above, written application submitted, and approval of adviser. These courses may not be used for English credit.

### ENGLISH / LANGUAGE ARTS

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#### **1021 COMMUNICATION APPLICATIONS**

*CREDIT: .5*

*GRADE PLACEMENT: 9 - 12*

*PREREQUISITE: None*

The course is designed for the student who has a desire to learn more about the communication process. Areas covered will include, but not be limited to, interpersonal communication, intrapersonal communication, interview process, one to one communication, group discussion, and public speaking. Students will be required to speak in front of the class. This course is also designed to better prepare students for future life experiences concerning communication. NOTE: Speech credit is required for graduation for incoming 2001 freshmen and thereafter.

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#### **9122 PROFESSIONAL COMMUNICATIONS**

#### **9123 PROFESSIONAL COMMUNICATIONS - FFA**

*CREDIT: .5 SPEECH CREDIT*

*GRADE PLACEMENT: 9-12*

*PREREQUISITE: None*

Professional communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct internet research. NOTE: Speech credit is required for graduation for incoming 2001 freshmen and thereafter

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#### **1027 INDEPENDENT SPEECH STUDY**

*CREDIT: .5- 1*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: Application*

This class is designed for the student who has shown an interest in pursuing further study in the field of communication. Students will be pursuing a specific area in communication.

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#### **1023 DEBATE 1, 2 (1024), 3 (1025)**

*CREDIT: .5- 1 each*

*GRADE PLACEMENT: 10 - 12*

*PREREQUISITE: Application*

Controversial issues arise in aspects of personal, social, public, and professional life in modern society. Debate and argumentation is widely used to make decisions and reduce conflict. In this class students will develop skills in argumentation and debate. They will become interested in current issues, develop sound critical thinking, and sharpen communication skills. These students will acquire life-long skills for intelligently approaching controversial issues and clashes of opinion.

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## Course Descriptions

### MATHEMATICS

Required: 4 Credits

Credits must include: Algebra 1, Geometry, and 2 advanced math courses

Students should take math courses in sequence listed below since the skills in one course build upon skills mastered in previous courses. Therefore, it is important that when registering for courses, students pay careful attention to prerequisite courses and teacher recommendations.

8 <sup>th</sup>	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
8 <sup>th</sup> Grade Math	Algebra 1	Geometry	Math Models	Algebra 2
8 <sup>th</sup> Grade Math	Algebra 1	Geometry	Algebra 2	Pre-Calculus or Statistics
8 <sup>th</sup> Grade Math	Algebra 1	Geometry/Geometry Pre-AP Algebra 2/Algebra 2 Pre-AP	Pre-Calculus Pre-AP	AP Calculus and/or AP Statistics
Algebra 1	Geometry Pre-AP	Algebra 2 Pre-AP	Pre-Calculus Pre-AP	AP Calculus and/or AP Statistics
Algebra 1	Geometry Pre-AP	Algebra 2 Pre-AP	Pre-Calculus Pre-AP and AP Statistics	AP Calculus

*Depicts preferred course sequences*

#### **2001 ALGEBRA 1**

*CREDIT: 1*

*GRADE PLACEMENT: 9 - 12*

*PREREQUISITE: None*

*STAAR EOC Course*

Algebra 1 is a mathematics course to continue, expand, and challenge the students in mathematic skills in the concrete, abstract, and real world situations. The course involves concepts through the real number system. The course offers an expansion of several properties of math. Students solve equations and inequalities and graph the solutions on a number line. Linear equations will be graphed on a coordinate plane. Systems of equations and inequalities will be studied up to two variable situations. The study of functions and quadratic functions will be covered. An expanded study of exponents, factoring, and square roots will also be covered. The use of a graphing calculator will be used in a variety of ways. A good understanding of the four operations of math is a definite plus to the student.

## Course Descriptions

# MATHEMATICS

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### **2006 GEOMETRY**

*CREDIT: 1*

*GRADE PLACEMENT: 9 - 12*

*PREREQUISITE: Algebra 1*

This is a standard Euclidean geometry course that provides experiences for students to understand geometric shapes and their properties by beginning with the Language of Geometry followed by deductive reasoning and the Logic of Geometry. Spatial reasoning is used through the introduction and study of the basic geometric shapes and their properties followed by parallelism, congruent triangles, inequalities in triangles, quadrilaterals, similarity, right triangles, circles, constructions and loci, area of plane figures, area and volume of solids, coordinate and transformational geometry. Sequential development and the ability to formulate and analyze problems are encouraged through the use of formal deductive proofs and algebra skills to solve geometric problems.

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### **2007 GEOMETRY Pre-AP**

*CREDIT: 1*

*GRADE PLACEMENT: 9-12*

*PREREQUISITE: Algebra 1, Pre-AP Guidelines Recommended*

Geometry Pre-AP is designed for students showing an advanced aptitude for mathematics. This course covers the content of the Plane Geometry course while going beyond the regular course in both content and depth. Content of this course which is not found in the regular course includes fractal geometry, taxi-cab geometry, computer assisted constructions, and the use of basic programming to develop programs to solve problems. The level of instruction/curriculum will focus on preparing the student for Advanced Placement courses.

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### **2004 ALGEBRA 2**

*CREDIT: 1*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: Algebra 1, Geometry (taken concurrently or completed previously)*

Algebra 2 is a continuation and an expansion of the basic principles that are studied in Algebra 1. Course content includes the study of relations and functions, irrational and complex numbers, polynomials, quadratic equations, rational expressions, conic sections, logarithms, matrices, and probability.

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### **2005 ALGEBRA 2 Pre-AP**

*CREDIT: 1*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: Algebra 1, Geometry (taken concurrently or completed previously)/Pre-AP Guidelines Recommended*

Algebra 2 Pre-AP is designed for students showing an advanced aptitude toward mathematics. This course offers a more in-depth view of Algebra 2 and will be conducted at an accelerated pace from regular Algebra 2. The level of instruction/curriculum will focus on preparing the student for Advanced Placement courses.

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### **2008 MATHEMATICAL MODELS WITH APPLICATIONS**

*CREDIT: 1*

*GRADE PLACEMENT: 11 – 12 Must be taken before Algebra 2*

*PREREQUISITE: Algebra 1 and Geometry*

Students continue to build on Algebra 1 foundations as they expand their understanding of math by using 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, design, and science.

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## Course Descriptions

# MATHEMATICS

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### **9009 MATHEMATICAL APPLICATIONS IN AGRICULTURE, FOOD, AND NATURAL RESOURCES**

*CREDIT: 3<sup>rd</sup> MATH CREDIT ONLY -Must be taken prior to Algebra 2*

*GRADE PLACEMENT: 11*

*PREREQUISITE: Recommended minimum of one credit from the courses in the Agriculture, Food and Natural Resources Career Cluster*

To be prepared for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. Students should 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 success, students are afforded opportunities to reinforce, apply, and transfer their knowledge and skills related to mathematics in a variety of contexts.

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### **2009 PRE-CALCULUS**

*CREDIT: 1*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: Algebra 2 and Geometry*

The course content encompasses functions and graphing techniques, conics, trigonometric functions, exponential and logarithmic equations, polynomial functions, sequences and series, polar coordinates, and vectors. Geometry concepts and algebra skills are used throughout the course.

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### **2017 STATISTICS**

*CREDIT: 1*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: Algebra 1, Geometry, & Algebra 2*

This course will cover various statistical processes. Students will explore categorical and quantitative data using various graphical, numeric, and visual representations. Bivariate data will also be analyzed using scatterplots and regression lines. Students will plan sample surveys, carry out well-designed experiments, and communicate results using statistical vocabulary. These results will be utilized to draw inferences about the larger population. The idea of mathematical probability will also be covered.

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### **2010 PRE-CALCULUS Pre-AP**

*CREDIT: 1*

*GRADE PLACEMENT: 11 - 12*

*PREREQUISITE: Algebra 2 and Geometry /Pre-AP Guidelines Recommended*

Pre-Calculus Pre-AP 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.

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## Course Descriptions

### MATHEMATICS

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#### **2011 ADVANCED PLACEMENT CALCULUS AB**

*CREDIT: 1*

*GRADE PLACEMENT: 12*

*PREREQUISITE: Pre-Calculus and Pre-AP/AP Guidelines Recommended*

This course is intended for students who have a thorough knowledge of college preparatory mathematics, including algebra, geometry, trigonometry, and analytic geometry (rectangular and polar coordinates, equations and graphs, lines and conics). Calculus AB is a course in introductory calculus with elementary functions.

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#### **2016 ADVANCED PLACEMENT STATISTICS**

*CREDIT : 1*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: Algebra 2, concurrent enrollment with Pre-calculus, or Pre-calculus and Pre-AP/AP Guidelines Recommended*

AP Statistics is built around four main topics: exploring data, planning a study, understanding probability theory and acquiring critical inferential reasoning skills. The course includes preparation for the Advanced Placement Statistics examination.

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## Course Descriptions

### SCIENCE

Required: 4 Credits

Credits must include: Biology, IPC, and 2 advanced sciences or Biology and 3 advanced sciences

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Biology	Chemistry	Physics Principles of Technology	Advanced Animal Science Aquatic Science Earth and Space Science Food Science Environmental Systems
Biology	Environmental Systems	IPC	Advanced Animal Science Aquatic Science Earth and Space Science Food Science
Integrated Physics and Chemistry (IPC)	Biology	Chemistry	Principles of Technology
Biology Pre-AP	Chemistry Pre-AP	Physics Pre-AP	AP Chemistry AP Physics AP Biology Dual Credit Geology

*Depicts preferred course sequences*

#### **4002 BIOLOGY**

*CREDIT: 1*

*GRADE PLACEMENT: 9-10*

*PREREQUISITE: None*

*STAAR EOC Course*

This course provides a general introduction to biological organisms using a phylogenetic approach. The course of study will include application of scientific method, the structure and function of cells and DNA, the laws of genetics, biological evolution, growth and development of organisms, classification of living organisms, and ecosystems. Laboratory procedures will include the proper use of the microscope and dissection of organisms.

#### **4003 BIOLOGY Pre-AP**

*CREDIT: 1*

*GRADE PLACEMENT: 9-10*

*PREREQUISITE: Pre-AP Guidelines Recommended*

*STAAR EOC Course*

Biology Pre-AP includes all of the material covered in biology, and also incorporates conceptual questions, additional laboratory and research skills as well as outside projects. The level of **instruction/curriculum** will focus on preparing the student for AP Biology.

## Course Descriptions

### SCIENCE

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#### 4004 AP BIOLOGY

*CREDIT: 1*

*GRADE PLACEMENT: 11 - 12*

*PREREQUISITE: Biology and Chemistry/Pre-AP/AP Guidelines Recommended*

The AP Biology course is designed to be the equivalent of a two-semester college introductory course, usually taken by biology majors during their first year. This course is significantly different from the freshmen biology course with respect to the type of textbook, the range and depth of the topics covered, the laboratory work and the time and effort needed by the students. This course is very rigorous, but also very interesting and exciting. This class is conducted at a college level and students are expected to work accordingly. AP Biology emphasizes cell origin, structure and chemistry, basic cellular physiology, genetics, diversity, evolutionary relationships and physiology of living organisms. Laboratories are designed to provide experience in investigative techniques and problem solving. Students will be encouraged to take the Advanced Placement Biology examination. ***There is a summer assignment required for this course.***

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#### 4001 INTEGRATED PHYSICS AND CHEMISTRY

*CREDIT: 1*

*GRADE PLACEMENT: 9-10 provided the student has not received credit for chemistry or physics*

*PREREQUISITE: Committee Recommendation based on prior performance in science and math courses*

Integrated Physics and Chemistry is a laboratory course involving two major branches of science: chemistry and physics. In this course, students will learn about chemical changes, the periodic table, nuclear chemistry, motion, forces, heat energy, electricity, magnetism, sound and light. Success in the course will require the use of algebra in problem solving. IPC will give students a solid foundation to be successful in later science and math classes. **IPC may not be 4th or final science credit.**

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#### 4005 CHEMISTRY

*CREDIT: 1*

*GRADE PLACEMENT: 10 - 12*

*PREREQUISITE: Biology and Algebra 1*

Chemistry is a mathematically-based, lab-oriented course which includes a study of the following topics: measurement systems, atomic structures, chemical bonding, writing formulas, chemical equations, gas laws, stoichiometry, and organic chemistry. Success in the class will require memorization as well as problem-solving.

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#### 4006 CHEMISTRY Pre-AP

*CREDIT: 1*

*GRADE PLACEMENT: 10 - 11*

*PREREQUISITE: Algebra 1/Biology /Pre-AP Guidelines Recommended*

Chemistry 1 Pre-AP will offer a more in-depth view of regular chemistry with a heavy emphasis on Algebra 2 mathematics skills. Enrollment in this course is contingent upon meeting the requirements for entry into Pre-AP courses. The level of instruction/curriculum will focus on preparing the student for **AP Chemistry**.

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## Course Descriptions

### SCIENCE

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#### 4007 ADVANCED PLACEMENT CHEMISTRY

CREDIT: 1

GRADE PLACEMENT: 11 or 12

PREREQUISITE: *Chemistry and Algebra 1/Pre-AP/AP Guidelines Recommended*

AP Chemistry is a continuation of chemistry. Topics will be similar; however, they will be covered in depth with more emphasis on problem-solving. Descriptive chemistry and laboratory practice will be emphasized. An excellent background in mathematics is essential for success in this course. The activities and labs are designed to reflect the requirements of the Advanced Placement program. The course will prepare students to take the Advanced Placement Chemistry examination. ***There is a summer assignment for this course.***

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#### 4015 PHYSICS

CREDIT: 1

GRADE PLACEMENT: 11-12

PREREQUISITE: *Algebra 1 and Geometry*

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. It is a recommended class for all college-bound students.

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#### 4008 PHYSICS Pre-AP

CREDIT: 1

GRADE PLACEMENT: 11-12

PREREQUISITE: *Algebra 1 and Geometry/Pre-AP Guideline Recommendations*

The Physics Pre-AP 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. The level of instruction/curriculum will prepare the student for **AP Physics**.

---

#### 4020 ADVANCED PLACEMENT PHYSICS I

CREDIT: 1

GRADE PLACEMENT: 12

PREREQUISITE: *Physics and Pre-calculus Pre-AP/AP Guidelines Recommended, concurrent enrollment in AP Calculus highly recommended*

In Physics AP, students develop mathematical models of the physical world, including motion, forces, work and energy, thermodynamics, electricity and magnetism and nuclear physics. These concepts will be addressed both conceptually and mathematically through more advanced problem solving, lab investigations and take-home projects. Physics AP should be taken with or after pre-calculus. It is recommended for those college-bound students considering careers in math, science, medicine, engineering, architecture, or computer science. The course will prepare students to take the Advanced Placement Physics I examination ***There is a summer assignment for this course.***

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#### 4011 ENVIRONMENTAL SYSTEMS

CREDIT: 1

GRADE PLACEMENT: 10 - 12

PREREQUISITE: *Biology*

In Environmental Systems, students conduct field and laboratory investigations, use scientific methods during investigations, and use scientific problem solving. Topics include: biotic and abiotic factors in habitats; ecosystems and biomes; interrelationships among resources and an environmental system; flow of energy through an environmental system; and changes in an environment.

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## Course Descriptions

### SCIENCE

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#### **9710 PRINCIPLES OF TECHNOLOGY**

*CREDIT: 1*

*GRADE PLACEMENT: 11 - 12*

*PREREQUISITE: Completion of Biology and IPC or Chemistry.*

Students in this class will earn credit for physics, while focusing on practical concepts of motion, force, work, rate, resistance, energy and power. This class is for the student who plans to go to work after high school or to a technical school.

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#### **9006 ADVANCED ANIMAL SCIENCE**

*CREDIT: 1 ( 4<sup>th</sup> SCIENCE CREDIT )*

*GRADE PLACEMENT: 12*

*PREREQUISITE: Recommended minimum of one credit from the courses in the Agriculture, Food and Natural Resources Career Cluster*

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. Animal species to be addressed in this course may include, but not limited to, beef cattle, swine, sheep, goats, and poultry.

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#### **9020 ADVANCED PLANT AND SOIL SCIENCE**

*CREDIT: 1 ( 4<sup>th</sup> SCIENCE CREDIT )*

*GRADE PLACEMENT: 12*

*PREREQUISITE: Recommended minimum of one credit from the courses in the Agriculture, Food and Natural Resources Career Cluster*

Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. Investigations, laboratory practices, and field exercises will be used to develop an understanding of current plant and soil sciences.

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#### **4021 AQUATIC SCIENCE**

*CREDIT: 1 ( 4<sup>th</sup> SCIENCE CREDIT )*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: Biology*

This course is a field study course, but the focus will include freshwater and saltwater ecosystems. Field work can be accomplished through studying local surrounding areas.

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#### **9356 ANATOMY AND PHYSIOLOGY OF HUMAN SYSTEMS**

*CREDIT: 1 ( 4<sup>th</sup> SCIENCE CREDIT )*

*GRADE PLACEMENT: 11 - 12*

*PREREQUISITE: Biology*

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 the class will require memorization and problem-solving skills.

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## Course Descriptions

### SCIENCE

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#### **4022 EARTH AND SPACE SCIENCE**

*CREDIT: 1 ( 4<sup>th</sup> SCIENCE CREDIT )*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: Biology*

Students will study a variety of topics that include: characteristics and conditions of the Earth, formation and history of the Earth, plate tectonics, origin and composition of minerals and rocks, processes and products of weathering, natural energy resources, interaction in a watershed, characteristics of oceans, the atmosphere and the role of energy in weather and climate.

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#### **9411 FOOD SCIENCE**

*CREDIT: 1 ( 4<sup>th</sup> SCIENCE CREDIT )*

*GRADE PLACEMENT: 12*

*PREREQUISITE: 3 Science Credits*

Food science is the study of the nature of foods, the causes of deterioration, the principles underlying food processing, and the improvement of foods for the consuming public. Students learn the science behind some of their favorite foods. Students experiment with cooking and the tastes of different foods. Students also take a look into the nutritional side of food. This course has a fee of \$25.

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#### **DUAL CREDIT PHYSICAL GEOLOGY (GEOL 1403)**

*CREDIT: 1 (4 HOURS COLLEGE CREDIT and 4<sup>th</sup> SCIENCE CREDIT )*

*GRADE PLACEMENT: 12*

*PREREQUISITE: Blinn entrance requirements, TSI assessment*

Introduction to the study of the materials and processes that have modified and shaped the surface and interior of Earth over time. These processes are described by theories based on experimental data and geologic data gathered from field observations. Lab activities will cover methods to collect and analyze earth science data. Prerequisites: A student must be college ready in reading according to TSI college-ready standards.

## Course Descriptions

### SOCIAL STUDIES

Required: 3.5 Credits

Credits must include: World Geography or World History, US History, and Government

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
World Geography	World History	US History	Government
World Geography Pre- AP	World History Pre-AP World History AP	AP US History Dual Credit US History	AP Government Dual Credit Government

*Depicts preferred course sequences*

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#### 3001 WORLD GEOGRAPHY

*CREDIT: 1*

*GRADE PLACEMENT: 9*

*PREREQUISITE: None*

This course is designed to give the student a whole perspective of the world they live in and the relationship they as humans share with their environment. Students will become aware of the regional divisions of the globe, the countries of these regions, as well as major physical features, climates, location, governments, economic activities, and cultural relationships. The five themes of geography, location, place, region, human-environment interaction, and movement, will serve as the guide for these studies. Mastery of world geography skills content will be measured through tests, independent study projects, and group projects.

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#### 3002 WORLD GEOGRAPHY Pre-AP

*CREDIT: 1*

*GRADE PLACEMENT: 9*

*PREREQUISITE: AP/PreAP Guidelines Recommended*

This course offers a more rigorous and in-depth study of World Geography. Students will need good writing skills and reading outside of class will be required. Higher level and critical thinking skills will be addressed through studies that require students to create, analyze, synthesize, and evaluate geographical information.

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#### 3015 ADVANCED PLACEMENT HUMAN GEOGRAPHY

*CREDIT: .5*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: AP/PreAP Guidelines Recommended*

This course is comparable to a college level course. The course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Student employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. This course is rigorous, fast paced, and requires extensive reading and writing.

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#### 3003 WORLD HISTORY

*CREDIT: 1*

*GRADE PLACEMENT: 10*

*PREREQUISITE: None*

This course is designed to give students the opportunity to learn about the major historical developments from the earliest civilization to the twentieth century. Students will concentrate on a number of skill areas. The class will combine history and geography and will place emphasis on map-reading, as well as the study of ancient, medieval, and modern history.

## Course Descriptions

### SOCIAL STUDIES

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#### **3004 WORLD HISTORY Pre-AP**

*CREDIT: 1*

*GRADE PLACEMENT: 10*

*PREREQUISITE: AP/PreAP Guidelines Recommended*

This course offers a more rigorous and in-depth study of World History. Students will need good writing skills and reading outside of class will be required. Higher level and critical thinking skills will be addressed through studies that require students to create, analyze, synthesize, and evaluate historical information

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#### **3006 ADVANCED PLACEMENT WORLD HISTORY**

*CREDIT: 1*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: AP/PreAP Guidelines Recommended*

This course is comparable to a college level course. The course focuses on developing students' understanding of world history from approximately 8000 B.C.E to the present. The course has students investigate the content of world history for significant events, individuals, developments, and processes in six historical periods, and develop and use the same thinking skills and methods employed by historians when they study the past. The course also provides five themes that students explore throughout the course in order to make connections among historical developments in different times and places encompassing the five major geographical regions of the globe: Africa, the Americas, Asia, Europe, and Oceania. This course is rigorous, fast paced, and requires extensive reading and writing.

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#### **3005 UNITED STATES HISTORY**

*CREDIT: 1*

*GRADE PLACEMENT: 11*

*PREREQUISITE: None*

*STAAR EOC Course*

In this course students study the history of the United States since from 1877 to the present. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies of the Cold War eras and reform movements including civil rights.

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#### **3020 ADVANCED PLACEMENT UNITED STATES HISTORY**

*CREDIT: 1*

*GRADE PLACEMENT: 11*

*PREREQUISITE: Pre-AP/AP Guidelines Recommended*

*STAAR EOC Course*

This course is comparable to a college level course. This course will offer a more in-depth study of United States history. Higher level and critical thinking skills will be addressed through studies which require students to create, produce, analyze, synthesize, and evaluate. Students will prepare to take the Advanced Placement U. S. History examination and possibly receive college credit. The course is rigorous, fast paced, and requires extensive reading and writing. ***There will be a summer reading assignment for this course.***

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## SOCIAL STUDIES

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### **3007 U.S. HISTORY DUAL CREDIT**

*CREDIT: 1 high school credit/3 hours Blinn College Credit per semester*

*GRADE PLACEMENT: 11*

*PREREQUISITE: Blinn College entrance requirements, TSI assessment*

*STAAR EOC Course*

This is a college-level course taught through Blinn College in which the first semester traces the American nation from the English colonization to the close of the Civil War through Reconstruction. The second semester covers from the end of Reconstruction to the present. Students will receive six (6) hours of college credit at Blinn College.\*Please note that Dual-Credit US History requires payment of applicable fees and textbooks.

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### **3008 UNITED STATES GOVERNMENT**

*CREDIT: .5*

*GRADE PLACEMENT: 12*

*PREREQUISITE: U. S. History*

This course is designed to give students an understanding of the background, creation, and history of government brought into being by our constitution. It will focus on such principles as representative democracies, popular sovereignty, limited government, separation of powers, checks and balances, federalism and judicial review. Students will also develop skills helpful in becoming responsible, active citizens.

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### **3022 ADVANCED PLACEMENT UNITED STATES GOVERNMENT & POLITICS**

*CREDIT: .5*

*GRADE PLACEMENT: 12*

*PREREQUISITE: U. S. History and Pre-AP/AP Guidelines Recommended*

This course is comparable to a college level course. The course introduces students to key political ideas, institutions, policies, interactions, roles and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning, assess causes and consequences of political events, and interpret data to develop evidence-based arguments. This course is rigorous, fast paced, and requires extensive reading and writing.

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### **3010 DUAL CREDIT GOVERNMENT**

*CREDIT: .5 high school/3 hours Blinn College Credit*

*GRADE PLACEMENT: 12*

*PREREQUISITE: Blinn College entrance requirements, TSI assessment*

This is a college-level course taught through Blinn College in which the student studies national, state and local government systems, theories of political thought and principles of American democracy. Upon successful completion of this course, students will receive three (3) hours of college credit at Blinn College and will satisfy Sealy ISD government requirements for graduation. Please note that Dual-Credit Government requires payment of applicable fees and textbooks.

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### **3027 PSYCHOLOGY**

*CREDIT: .5*

*GRADE PLACEMENT: 11-12*

*PEREQUISITE: none*

This one-semester introductory course offers students the opportunity to study the multifaceted field of psychology. Students will be provided opportunities to explore various careers related to psychology as well as to study scientific theories related to human growth, development and behavior.

**NOTE: This course is a social studies elective course. It does NOT fulfill the social studies requirement for graduation.**

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## Course Descriptions

### SOCIAL STUDIES

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#### **3014 ADVANCED PLACEMENT PSYCHOLOGY**

*CREDIT: .5*

*GRADE PLACEMENT: 10-12*

*PEREQUISITE: AP/PreAP Guidelines Recommended*

This course is comparable to a college level course and involves mature content. The course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Throughout the course, students employ psychological research methods, including ethical considerations, as they use the scientific method, analyze bias, evaluate claims and evidence, and effectively communicate ideas. This course is rigorous, fast paced, and requires extensive reading and writing.

**NOTE: This course is a social studies elective course. It does NOT fulfill the social studies requirement for graduation.**

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#### **3026 SOCIOLOGY**

*CREDIT: .5*

*GRADE PLACEMENT: 11-12*

*PEREQUISITE: none*

This one-semester course is the scientific study of human groups. A high interest course, it is designed for the student who enjoys discussion of current social issues. Topics of study include an introduction to criminology, a comprehensive study of the family, social institutions, and cultural variations. The course not only prepares those interested in the field for college level studies but is designed to help students better understand themselves, others, and the world in which we live.

**NOTE: This course is a social studies elective course. It does NOT fulfill the social studies requirement for graduation.**

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# Course Descriptions

## ECONOMICS

Required: .5 Credit

Credits must include: Economics

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
			Economics AP MacroEconomics Dual Credit Economics

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### 3011 ECONOMICS

*CREDIT: .5*

*GRADE PLACEMENT: 12*

*PREREQUISITE: None*

This course deals with micro and macro economics, economic systems, decision making, economic institution competition and market structures, supply and demand, banking, world trade, fiscal and monetary policy.

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### 3024 ADVANCED PLACEMENT MACROECONOMICS

*CREDIT: .5*

*GRADE PLACEMENT: 12*

*PREREQUISITE: Pre-AP/AP Guidelines Recommended*

This course is comparable to a college level course. The course focuses on the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination; it also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Students learn to use graphs, charts, and data to analyze, describe, and explain economic concepts. This course is rigorous, fast paced, and requires extensive reading.

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### 3013 DUAL CREDIT ECONOMICS

*CREDIT: .5 high school/ 3 hours Blinn College credit*

*GRADE PLACEMENT: 12*

*PREREQUISITE: Blinn College entrance requirements, TSI Assessment*

This is a college-level course taught through Blinn College for one semester. It is a study of the principles of economics that apply to an economic system as a whole. Upon successful completion of the course, students will receive three (3) hours of college credit at Blinn College and will satisfy Sealy ISD economics requirements for graduation. \*Please note that Dual-Credit Economics requires payment of applicable fees and textbooks.

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## Course Descriptions

### PHYSICAL EDUCATION / ATHLETICS

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#### PHYSICAL EDUCATION

##### Girls

6001- 1<sup>st</sup> year

6005 – 2<sup>nd</sup> year

CREDIT: .5- 1

GRADE PLACEMENT: 9 - 12

PREREQUISITE: None

##### Boys

6003 – 1<sup>st</sup> year

6007 – 2<sup>nd</sup> year

This course deals with knowledge and motor skills basic to efficient movements, physical fitness, and participation in individual and team sports, and leisure and lifetime sports. Students are required to dress out each day. Note: students enrolled in band for two fall semesters will receive credit for their physical education requirement.

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#### ATHLETICS

##### Girls

6009- 1<sup>st</sup> year

6013-2<sup>nd</sup> year

6017-3<sup>rd</sup> year

6019-4<sup>th</sup> year

##### Boys

6011- 1<sup>st</sup> year

6015-2<sup>nd</sup> year

6018-3<sup>rd</sup> year

6020-4<sup>th</sup> year

##### Boys - Soccer

6012- 1<sup>st</sup> year

6085-2<sup>nd</sup> year

6087-3<sup>rd</sup> year

6088-4<sup>th</sup> year

All athletes, to be eligible to participate in athletics, must pass all subjects during the current six-week period. There is a three-week suspension from participation in athletic events with any failing report. **NO PASS, NO PLAY.** If a student athlete is not eligible for a semester, they may be subject to dismissal from the program. An athlete, who fails to participate in an athletic event throughout the year due to ineligibility, will be dismissed from the program. All athletes must participate in two sports or have the approval of the Athletic Director to participate in sports after school only.

### LANGUAGES OTHER THAN ENGLISH

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#### **1062 SPANISH 1**

*CREDIT: 1*

*GRADE PLACEMENT: 9 - 12*

*PREREQUISITE: None*

A full year course designed to teach the basic concepts of the Spanish language. The four language skills, listening, speaking, reading, and writing, are developed through the study of basic grammar and linguistics and the study of some history and culture of the Hispanic world.

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#### **1063 SPANISH 2**

*CREDIT: 1*

*GRADE PLACEMENT: 10 - 12*

*PREREQUISITE: Spanish 1*

This class is a continuation of Spanish 1 with more emphasis placed on grammatical structure and verb tense to improve comprehension skills. Students will learn the language in more intricate detail. Increased emphasis is placed on speaking and writing.

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#### **1064 SPANISH 3 Pre-AP**

*CREDIT: 1*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: Spanish 2 and Pre-AP Guidelines Recommended*

The Spanish 3 Pre-AP course provides the opportunity for a more detailed study of the language and culture. Students will work on developing a broader base in their spoken and written communication in the target language. Students will be introduced to Hispanic literature through magazine articles, short stories, and poetry. Cultural awareness is enhanced through independent and group projects. Emphasis is placed on oral competency.

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#### **1072 ADVANCED PLACEMENT SPANISH LANGUAGE**

*CREDIT: 1*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: Spanish 3 Pre-AP and Pre-AP Guidelines Recommended*

AP Spanish Language gives the student the opportunity to comprehend formal and informal spoken Spanish. Emphasis is placed on the student's ability to compose expository passages and to express ideas orally with accuracy and fluency. The acquisition of vocabulary and a grasp of structures allow the student to read newspapers, magazine articles, and literature with ease and accuracy.

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#### **6361 SPANISH FOR SPANISH SPEAKERS 1 (semester 1)/6362 SPANISH FOR SPANISH SPEAKERS 2 (semester 2)**

*CREDIT: 2 Credits in one year*

*GRADE PLACEMENT: 9-12*

*PREREQUISITE:*

This course is designed for Spanish speakers who do not require emphasis placed on oral language skills. Concentration is placed on reading, writing and grammar skills. In addition, TAKS objectives within the Spanish curriculum are emphasized which will transfer to the English language. Students are encouraged to continue the study of their native language and build pride in their ethnic heritage

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## LANGUAGES OTHER THAN ENGLISH

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### **6363 SPANISH FOR SPANISH SPEAKERS 3 Pre-AP (semester 1)/6364 ADVANCED PLACEMENT SPANISH LANGUAGE for Spanish Speakers (semester 2)**

*CREDIT: 2 Credits in one year*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: Students who have successfully completed Spanish for Spanish Speakers 1 & 2 /Pre-AP Guidelines Recommended*

Spanish for Spanish Speakers 3 Pre-AP and Advanced Placement Spanish Language (Spanish 4 for Spanish Speakers) are designed to strengthen the reading, writing and grammar skills of native speakers and prepare them for the Advanced Placement Spanish Language Examination. Emphasis will be placed on the student's ability to compose expository passages and to express ideas with accuracy and fluency.

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### **1065 GERMAN 1**

*CREDIT: 1*

*GRADE PLACEMENT: 9 - 12*

*PREREQUISITE: None*

*COURSE OFFERING SUBJECT TO TEACHER AVAILABILITY.*

This course is designed to teach the basic grammatical concepts of the German language to the novice learner. The four communications skills of listening, speaking, reading, and writing are interwoven with German culture to expand the student's knowledge of the German language and the culture of the German-speaking world.

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### **1066 GERMAN 2**

*CREDIT: 1*

*GRADE PLACEMENT: 10 - 12*

*PREREQUISITE: German 1*

This is a continuation of German 1. Command of the German language is enhanced with increased emphasis on the four communication skills of listening, speaking, reading and writing. Grammatical structures are presented in greater detail. German culture plays an integral role and reinforces the further development of language proficiency.

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### **1067 GERMAN 3 Pre-AP**

*CREDIT: 1*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: German 2 and Pre-AP Guidelines Recommended*

The German 3 Pre-AP course provides the opportunity for a more detailed study of the German language and culture. Students will work on developing a broader base in their spoken and written communication in the target language. Students will be introduced to German reading materials in various forms to enhance their reading proficiency and will further improve their listening comprehension skills.

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### **1071 ADVANCED PLACEMENT GERMAN LANGUAGE**

*CREDIT: 1*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: German 3 Pre-AP and Pre-AP Guidelines Recommended*

AP German Language gives the student the opportunity to comprehend formal and informal spoken German. Further emphasis is placed on the student's ability to compose written assignments and to express ideas orally with accuracy and fluency. The acquisition of a much broader vocabulary and a grasp of more complex grammatical structures will allow the student to read and comprehend reading passages with greater ease and accuracy.

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## FINE ARTS

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### **9017 PRINCIPLES AND ELEMENTS OF FLORAL DESIGN**

*CREDIT: 1 FINE ARTS CREDIT*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: None*

Students need to attain academic skills and knowledge as well as technical knowledge and skills related to horticultural systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop and understanding of the management of floral enterprises. The objectives in floral design are but not limited to bow making, fall floral arrangements, and homecoming mums. This course has a fee of \$25.

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## THEATRE

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### **5050 THEATRE ARTS 1**

*CREDIT: .5- 1*

*GRADE PLACEMENT: 9 - 12*

*PREREQUISITE: None*

This course introduces the student to acting through mime, improvisation, prepared performance, script analysis, theatre history, musical theatre and film. This class is open to anyone who wants to learn more about theatre. Students should be aware that enrollment in this class requires them to perform in front of an audience and attend live theatre.

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### **5051 THEATRE ARTS 2 (Prereq Th Arts 1), 5053 THEATRE ARTS 3 (Prereq Th Arts 2), AND 5055 THEATRE ARTS 4 (Prereq Th Arts 3)**

*CREDIT: .5- 1*

*GRADE PLACEMENT: 10 - 12*

*PREREQUISITE: Courses must be taken in sequential order following Theatre Arts 1*

Students enrolled in advanced theatre classes will experience a greater depth of theatre study. Students will explore script writing, theatre history, production roles, technical theatre and advanced acting techniques. Students should be aware that enrollment in this class requires them to attend live theatre.

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### **5057 THEATRE PRODUCTION 2 (Prereq Th Arts 1), 5058 THEATRE PRODUCTION 3(Prereq Th prod 2), 5059 THEATRE PRODUCTION 4 (Prereq Th Prod 3)**

*CREDIT: .5- 1*

*GRADE PLACEMENT: 10 - 12*

*PREREQUISITE: Theatre Arts 1 / Approval by Director*

This course revolves around the Tiger Stage Company production schedule. All students enrolled in Theatre Production 2 - 4 must have a role in each show being produced by Tiger Stage Company throughout the year, including the musical. The roles may be acting or technical. This is an ideal course for students active in Tiger Stage Company. Students must complete a minimum of 18 hours of outside theatre work per 9 weeks. Theatre Production 2 - 4 and Theatre Arts 2 - 4 may be taken concurrently. \$25.00 Tigers Stage Company membership Fee.

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### **5060 TECH THEATRE**

*CREDIT: .5- 1*

*GRADE PLACEMENT: 10 - 12*

*PREREQUISITE: Theatre Arts 1/Application*

This course is designed to give an overview of the behind-the-scenes workings of the stage. Students will work with a variety of tools, paint, and machinery to create stage settings, costumes, lighting effects, sound effects, and publicity information.

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## FINE ARTS

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### ART

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#### **5001 ART 1 (INTRODUCTORY)**

*CREDIT: .5- 1*

*GRADE PLACEMENT: 9 - 12*

*PREREQUISITE: None*

The Art 1 course introduces the student to a wide variety of materials and methods which will be used to create works of art. The student will learn and use basic art related terminology associated with each area of focus. Special emphasis will be given to art history and the formal elements and principles of design. Students will also have the opportunity to compete in various art competitions throughout the school year. A \$10.00 art supply fee is due at the beginning of each semester.

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#### **5002 ART 2 (INTERMEDIATE)**

*CREDIT: .5- 1*

*GRADE PLACEMENT: 10 - 12*

*PREREQUISITE: Art 1*

The Art 2 class is a more in-depth version of the Art 1 experience. Art projects deal with a variety of materials and methods; however, the student is expected to develop an artistic style and corresponding concentration representative of a more advanced artistic view. Students will have the opportunity to compete in various art competitions throughout the school year. A \$10.00 art supply fee is due at the beginning of each semester.

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#### **5003 ART 3, 5004 ART 4 (ADVANCED)**

*CREDIT: .5- 1*

*GRADE PLACEMENT: 11 - 12*

*PREREQUISITE: Art 2*

The Art 3/4 experience is an advanced exploration of visual art geared toward the student considering an art related career. Projects will be created in a variety of media with an emphasis on creativity and a well developed personal style. Students will have the opportunity to participate in a number of art competitions. Throughout the year the student will assemble a portfolio of work for future college or AP submission. A \$15.00 art supply fee is due at the beginning of each semester.

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#### **5005 ADVANCED PLACEMENT 2-DIMENSIONAL DESIGN PORTFOLIO**

*CREDIT: 1*

*GRADE PLACEMENT: 11 - 12*

*PREREQUISITE: Art 1 and Art 2 / Teacher Recommendation*

This course is intended to address a very broad visual interpretation of two-dimensional (2-D) design ideas. This type of design involves purposeful decision-making about how to use the elements and principles of art in an integrative way. This course enables the student to create and assemble a three-part portfolio of work for submission to the College Board Advanced Placement 2-D Design exam. A \$20.00 art supply fee is due at the beginning of each semester.

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#### **5007 ADVANCED PLACEMENT STUDIO ART: DRAWING**

*CREDIT: 1*

*GRADE PLACEMENT: 11 - 12*

*PREREQUISITE: Art 1 and 2 / Teacher Recommendation*

This course is designed to address a very broad interpretation of drawing issues utilizing a variety of media, art styles, and techniques. The course enables the student to create and assemble a three-part portfolio of work for submission to the College Board Advanced Placement Drawing exam. A \$20.00 art supply fee is due at the beginning of each semester.

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## FINE ARTS

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### ART

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#### **5006 ADVANCED PLACEMENT ART HISTORY**

*CREDIT: 1*

*GRADE PLACEMENT: 11 - 12*

*PREREQUISITE: Teacher Recommendation*

Students will develop an understanding and knowledge of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts. Students examine major forms of artistic expressions from the past and the present from a variety of cultures. They learn to look at works of art critically with intelligence and sensitivity and to analyze what they see. Student will develop an understanding of the elements of art, fundamental art historical terminology, and the technical process used in the production of artwork. This course will prepare students for the College Board Advanced Placement Art History examination. A \$5.00 art supply fee is due at the beginning of each semester.

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### MUSIC

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#### **5020 BAND 1**

**5021 BAND 2 - PREREQ BAND 1**

**5022 BAND 3 - PREREQ BAND 2**

**5023 BAND 4 - PREREQ BAND 3**

*CREDIT: .5- 1 per year*

*GRADE PLACEMENT: 9 - 12*

*PREREQUISITE: Application / Audition*

The Sealy Tiger Band is a varsity level performing group made up of students from all areas of Sealy High School who have a common interest in and appreciation of music. The main focus of the band is to perform and compete as a group at many activities during the school year, including football games, U.I.L. contests, and local concerts. The individual musician, however, is challenged to go beyond the group setting and enter all Region, Area, and State tryouts as well as U.I.L. Solo and Ensemble Contest both at the Region and State levels. Two fall semesters of band does fulfill the P.E. requirement for graduation.

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#### **5019 JAZZ BAND 1-4**

*CREDIT: .5- 1*

*GRADE PLACEMENT: 9 - 12*

*PREREQUISITE: Must be enrolled in Band 1-4*

Jazz Band is a unique opportunity to learn a different style of music. Students will learn different styles of jazz music such as swing, bebop, fusion, funk, and Latin, just to name a few. Jazz Band students will perform at community events. Students will have the opportunity to try out for region jazz band, compete in jazz band competitions, and perform in concerts with other jazz bands around the area.

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## Course Descriptions

### FINE ARTS

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#### CHOIR

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##### GIRLS

5044-1<sup>ST</sup> YEAR

5046-2<sup>ND</sup> YEAR - PREREQ CHOIR 1 and audition with High School Choir Director

5049-3<sup>RD</sup> YEAR - PREREQ CHOIR 2 and audition with High School Choir Director

5013-4<sup>TH</sup> YEAR - PREREQ CHOIR 3 and audition with High School Choir Director

##### BOYS

5045-1<sup>ST</sup> YEAR

5047-2<sup>ND</sup> YEAR - PREREQ CHOIR 1 and audition with High School Choir Director

5012-3<sup>RD</sup> YEAR - PREREQ CHOIR 2 and audition with High School Choir Director

5014-4<sup>TH</sup> YEAR - PREREQ CHOIR 3 and audition with High School Choir Director

*CREDIT: .5- 1 per year*

*GRADE PLACEMENT: 9 - 12*

*PREREQUISITE: Application / Audition*

This class is designed to discover and develop students' vocal abilities. Students will not only be involved in classroom activities but also U.I.L. competition, including solo and ensemble, and seasonal concerts. There is a \$20.00 uniform fee.

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#### MUSIC

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**5024 APPLIED MUSIC 1**

**APPLIED MUSIC 2 - PREREQ APPLIED MUSIC 1**

*CREDIT: .5- 1*

*GRADE PLACEMENT: 11 - 12*

*PREREQUISITE: Application / Audition*

Applied Music is an advanced, college preparatory music course for juniors and seniors only. Class time is divided among music theory, music history, and individual instruction. All students enrolled must take private lessons throughout the year, as well as compete in the All-Region process in the fall semester and U.I.L. Solo and Ensemble Contest in the spring.

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### ELECTIVES

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**6722 COLLEGE AND CAREER PREP**

*CREDIT: .5 - 1 credit*

*GRADE PLACEMENT: 12*

*PREREQUISITE: None*

College and Career Prep allows college-bound senior the opportunity to advance to the next level of education with some ease. Students will have time to research colleges/technical schools and scholarships, as well as complete and submit applications. Students will receive advice on writing college essays, requesting recommendation letters and transcripts, and will begin the financial aid process through the FAFSA. Other topics covered will be suggestions on planning college visits and adjusting to college life.

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## TECH APP

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### **6803 INDEPENDENT STUDY IN EVOLVING/EMERGING TECHNOLOGY**

*CREDIT: .5 - 1 credit*

*GRADE PLACEMENT: 10 - 12*

*PREREQUISITE: None*

Through the study of evolving/emerging technology, including technology-related terms, concepts, and data input strategies, students learn to make informed decisions and develop and produce original work that exemplifies the standards identified by the selected profession or discipline and publish the product in electronic media and print. By using technology as a tool that supports the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create a solution, and evaluate the results.

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### **6801 INDEPENDENT STUDY IN TECHNOLOGY APPLICATIONS**

*CREDIT: .5 - 1 credit*

*GRADE PLACEMENT: 10 - 12*

*PREREQUISITE: None*

Through the study of technology applications foundations, technology applications including technology-related terms, concepts, and data input strategies; students learn to make informed decisions about technologies and their applications and develop and produce original work that exemplifies the standards identified by the selected profession or discipline; and publish the product in electronic media and print.. By using technology as a tool that supports the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create a solution, and evaluate the results.

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### **6802 DIGITAL COMMUNICATION IN THE 21<sup>ST</sup> CENTURY**

*CREDIT: .5 - 1 credit*

*GRADE PLACEMENT: 10 - 12*

*PREREQUISITE: None*

Through the study of technology applications foundations students learn to make informed decisions about technologies and their using digital tools and appropriate applications. By using technology as a tool that supports the work of individuals and groups in solving problems, online research and information resources, such as journals, newspapers, or authoritative databases, students will select the technology appropriate for the task, synthesize knowledge, create a solution, and evaluate the results for authentic, real-world local, state, national, and global issues.

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## Course Descriptions

### CAREER AND TECHNICAL EDUCATION

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#### AGRICULTURE, FOOD, AND NATURAL RESOURCES CAREER CLUSTER

##### Animal Science

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Principles of Agriculture	Equine Science or Wildlife/Livestock Production	Vet Medical Applications	Advanced Animal Science

##### Agriculture Mechanics/Welding

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Principles of Agriculture	Agriculture Mechanics	Welding	Advanced Welding

*Depicts preferred course sequences*

*Career Prep, Floral Design, Professional Communications, and a Technology Course can be added to all of the coherent sequences.*

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#### **9001 PRINCIPLES OF AGRICULTURE, FOOD, AND NATURAL RESOURCES**

*CREDIT: 1*

*GRADE PLACEMENT: 9-12*

*PREREQUISITE: None*

Students will attain academic skills and knowledge in agriculture, food, and natural resources. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations in agriculture, food, and natural resources.

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#### **9004 EQUINE SCIENCE**

*CREDIT: .5*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: None*

To be prepared for careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Suggested animals which may be included in the course of study include, but are not limited to, horses, donkeys, and mules.

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#### **9002 LIVESTOCK PRODUCTION**

*CREDIT: 1*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: None*

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Animal species to be addressed in this course may include, but are not limited to, beef cattle, dairy cattle, swine, sheep, goats, and poultry.

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# CAREER AND TECHNICAL EDUCATION

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### **9014 WILDLIFE, FISHERIES, AND ECOLOGY MANAGEMENT**

*CREDIT: 1*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: None*

This course examines the management of game and non-game wildlife species, fish, and aqua crops and their ecological needs as related to current agricultural practices. Students will also study hunter education, fish & game laws, and wildlife identification.

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### **9005 VETERINARY MEDICAL APPLICATIONS**

*CREDIT: 1*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: Principles of Agriculture, Food, and Natural Resources, Small Animal Production, Wildlife Fisheries and Ecology Management, Equine Science or teacher approval*

To be prepared for careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Topics covered in this course include, but are not limited to, veterinary practices as they relate to both large and small animal species.

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### **9006 ADVANCED ANIMAL SCIENCE**

*CREDIT: 4<sup>th</sup> SCIENCE CREDIT*

*GRADE PLACEMENT: 12*

*PREREQUISITE: Recommended minimum of one credit from the courses in the Agriculture, Food and Natural Resources Career Cluster*

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. Animal species to be addressed in this course may include, but not limited to, beef cattle, swine, sheep, goats, and poultry.

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### **9007 PROFESSIONAL STANDARDS IN AGRIBUSINESS**

*CREDIT: .5*

*GRADE PLACEMENT: 9 – 12*

*PREREQUISITE: None*

Students need to attain academic skills and knowledge, acquire technical knowledge and skills related to leadership development and the workplace and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

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### **9017 FLORAL DESIGN**

*CREDIT: 1 FINE ARTS CREDIT*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: None*

Students need to attain academic skills and knowledge as well as technical knowledge and skills related to horticultural systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop and understanding of the management of floral enterprises. The objectives in floral design are but not limited to bow making, fall floral arrangements, and homecoming mums. This course has a fee of \$25.

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# CAREER AND TECHNICAL EDUCATION

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### **9018 LANDSCAPE DESIGN AND MANAGEMENT**

*CREDIT: .5*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: None*

Students need to attain academic skills and knowledge as well as technical knowledge and skills related to horticultural systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. This course is designed to develop an understanding of landscape and turf grass management techniques and practices.

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### **9019 HORTICULTURE SCIENCE**

*CREDIT: 1*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: None*

Students need to attain academic skills and knowledge as well as technical knowledge and skills related to horticultural systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. This course is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production.

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### **9020 ADVANCED PLANT AND SOIL SCIENCE**

*CREDIT: 4<sup>th</sup> SCIENCE CREDIT*

*GRADE PLACEMENT: 12*

*PREREQUISITE: Recommended minimum of one credit from the courses in the Agriculture, Food and Natural Resources Career Cluster*

Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. Investigations, laboratory practices, and field exercises will be used to develop an understanding of current plant and soil sciences.

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### **9122 PROFESSIONAL COMMUNICATIONS**

### **9123 PROFESSIONAL COMMUNICATIONS - FFA**

*CREDIT: .5 SPEECH CREDIT*

*GRADE PLACEMENT: 9-12*

*PREREQUISITE: None*

Professional communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct internet research.

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### **9611 INTRODUCTION TO WELDING**

*CREDIT: 1 CREDIT*

*GRADE PLACEMENT: 9-12*

*PREREQUISITE: None*

Students will be introduced to the three basic welding processes. Topics include safety, hand and power tool machine use, measurement, and welding power sources and standards. The course fee is \$25.00.

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# CAREER AND TECHNICAL EDUCATION

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### **9603 WELDING I**

*CREDIT: 2*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: Recommended that students complete Agricultural Mechanics and Metal Technology*

Students will develop welding concepts and skills as they relate to personal and career development. This course integrates academic and technical knowledge and skills to a variety of settings and problems. Students will develop their skills in welding techniques. This course has a fee of \$25. Students will have the opportunity to earn dual credit through Blinn College onsite at Sealy High School and will receive weighted grade points if they enroll in the dual credit option through Blinn College.

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### **9604 WELDING II**

*CREDIT: 2 CREDITS*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: Recommended that students complete Agricultural Mechanics and Metal Technology and Welding*

Students will develop advanced welding concepts and skills as they relate to personal and career development. This course integrates academic and technical knowledge and skills to a variety of settings and problems. Students will develop their skills in welding techniques. This course has a fee of \$25. Students will have the opportunity to earn dual credit through Blinn College onsite at Sealy High School and will receive weighted grade points if they enroll in the dual credit option through Blinn College. If a student completes the Welding and Advanced Welding courses, they will have the opportunity to earn a NCCER Welding Certification.

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### **9009 MATHEMATICAL APPLICATIONS IN AGRICULTURE, FOOD, AND NATURAL RESOURCES**

*CREDIT: 3<sup>rd</sup> MATH CREDIT ONLY -Must be taken prior to Algebra 2*

*GRADE PLACEMENT: 11*

*PREREQUISITE: Recommended minimum of one credit from the courses in the Agriculture, Food and Natural Resources Career Cluster*

To be prepared for careers in agriculture, food, and natural resources, students must acquire technical knowledge in the discipline as well as apply academic skills in mathematics. Students should 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 success, students are afforded opportunities to reinforce, apply, and transfer their knowledge and skills related to mathematics in a variety of contexts.

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### **9024 PRACTICUM IN AGRICULTURE**

*CREDIT: 2*

*GRADE PLACEMENT: 12*

*PREREQUISITE: Capstone course in the Agriculture Coherent Sequence*

The practicum course is the capstone course for students participating in the Agriculture, Food, and Natural Resources Coherent Sequence. The course fee is \$25.00

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**CAREER AND TECHNICAL EDUCATION**

**ARCHITECTURE AND CONSTRUCTION CAREER CLUSTER  
Construction**

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Principles of Construction	Construction Technology I	Construction Technology II	Practicum in Construction Technology

*Depicts preferred course sequences*

*Career Prep, Floral Design, Professional Communications, and a Technology Course can be added to all of the coherent sequences.*

**9051 INTERIOR DESIGN I**

*CREDIT: 1*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: None*

This laboratory course covers the knowledge and skills needed to successfully decorate a home and/or business. Period furniture styles, surface treatments, lighting, use of design, space planning, consideration of occupant needs and management principles will be emphasized. Other components include the impact of technology, the use of professional services, and careers available within the occupational area. Students will complete a major project related to furnishing a home (on paper) and determining the cost. This will include wall color, floor covering, window treatment, furniture, accessories, etc. for each room.

**9050 PRINCIPLES OF CONSTRUCTION**

*CREDIT: 1*

*GRADE PLACEMENT: 9 – 12*

Principles of Architecture and Construction provides an overview to the various fields of architecture, interior design, construction science, and construction technology. Students will receive an introduction to hand tools, power tools, basic rigging, and reading technical drawings. Course fee \$25.00

**9061 CONSTRUCTION TECHNOLOGY I**

*CREDIT: 2*

*GRADE PLACEMENT: 10 – 12*

*RECOMMENDED PREREQUISITE: Principles of Architecture and Construction*

In construction technology, students gain knowledge and skills specific to those needed to enter the work force as carpenters, building maintenance supervisors, or prepare for a postsecondary degree in construction management, architecture, or engineering. Students acquire knowledge and skills in safety, tool usage, building materials, codes, and framing. Course fee \$25.00.

## CAREER AND TECHNICAL EDUCATION

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### **9062 CONSTRUCTION TECHNOLOGY II**

*CREDIT: 2*

*GRADE PLACEMENT: 11 – 12*

*RECOMMENDED PREREQUISITE: Principles of Architecture and Construction and Construction Technology*

In Advanced Construction Technology, students gain advanced knowledge and skills specific to those needed to enter the workforce as carpenters, building maintenance technicians, or supervisors or prepare for a postsecondary degree in construction management, architecture, and engineering. Students build on the knowledge base from Construction Technology and are introduced to exterior and interior finish out skills. Course fee \$25.00.

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### **9072 PRACTICUM IN CONSTRUCTION TECHNOLOGY**

*CREDIT: 2*

*GRADE PLACEMENT: 12*

*RECOMMENDED PREREQUISITE: Completion of a coherent sequence of courses related to the field of construction technology*

Students will be provided classroom technical instruction or on-the-job-training experiences. Safety and career opportunities are included in addition to work ethics and job related study in the classroom. Course fee \$25.00.

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## Course Descriptions

### CAREER AND TECHNICAL EDUCATION

#### ARTS, AUDIO/VIDEO TECHNOLOGY, AND COMMUNICATION CAREER CLUSTER

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Principles of Arts and Audio/Video Technology and Communication	Digital Media	Animation I	Animation II
Principles of Arts and Audio/Video Technology and Communication	Web Technologies	Digital Media	Animation I

*Depicts preferred course sequences*

*Career Prep, Floral Design, Professional Communications, and a Technology Course can be added to all of the coherent sequences.*

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#### **9101 PRINCIPLES OF ARTS AND AUDIO/VIDEO TECHNOLOGY AND COMMUNICATIONS**

*CREDIT: 1*

*GRADE PLACEMENT: 9 - 11*

*PREREQUISITE: None*

Students will develop a strong background in computer and technology applications within the audio/video career field. Students will enhance their reading, writing, computing, communication, and reasoning skills and apply them to the audio/video environment.

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#### **9102 ANIMATION I**

*CREDIT: 1*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: Principles of Arts, Audio/Video Technology and Communications or Touch System Data and Professional Communication Recommended*

Careers in animation span all aspects of motion graphics. Within the context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the history and techniques of the animation industry.

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#### **9103 ANIMATION II**

*CREDIT: 1*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: Animation I*

Careers in animation span all aspects of motion graphics. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to create two- and three-dimensional animations. The instruction also assists students seeking careers in the animation industry.

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#### **9114 FASHION DESIGN I**

*CREDIT: 1*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: None*

Careers in fashion span all aspects of the textile and apparel industries. Students will be expected to develop an understanding of fashion, textile, and apparel industries. In Fashion Design students will keep up with the latest fashions and explore the history icons that play major roles in today's fashion. Students will also make their own fashions by sewing. This course has a fee of \$25.

### CAREER AND TECHNICAL EDUCATION

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**9122 PROFESSIONAL COMMUNICATIONS**

**9123 PROFESSIONAL COMMUNICATIONS - FFA**

*CREDIT: .5 SPEECH CREDIT*

*GRADE PLACEMENT: 9-12*

*PREREQUISITE: None*

Professional communications blends written, oral, and graphic communication in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct internet research.

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**CAREER AND TECHNICAL EDUCATION**

**BUSINESS MANAGEMENT AND ADMINISTRATION CAREER CLUSTER  
Business**

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Principles of Business, Marketing, & Finance	Global Business/Virtual Business	Business Law	Business Management
	Business Management	Business Information Management I	Business Information Management II

*Depicts preferred course sequences*

*Career Prep, Principles and Elements of Floral Design, Professional Communications, and a Technology Course can be added to all of the coherent sequences*

**9150 PRINCIPLES OF BUSINESS, MARKETING, AND FINANCE**

*CREDIT: 1*

*GRADE PLACEMENT: 9-11*

*PREREQUISITE: None*

Students explore the characteristics of business and discover the importance of making ethical, moral, and legal choices in business, learn the types of economic systems with emphasis on the private enterprise system, the impact of global business, and the role of the government in business. Students gain knowledge in the marketing of goods and services, advertising, and product pricing, analyze the sales process and personal financial management. The engaging learning activities and simulations in this course provide the foundation for more advanced courses in the business, marketing, and finance clusters.

**9151 TOUCH SYSTEM DATA ENTRY**

*CREDIT: .5*

*GRADE PLACEMENT: 9-10*

*PREREQUISITE: None*

Touch system data entry (keyboarding) skills is among the most common skills necessary in today's job market. In this course, students learn and practice correct keyboarding technique and form and build speed and accuracy in using the keyboard and alpha/numeric keypad. Students will use these skills to compose a variety of business documents.

**9156 GLOBAL BUSINESS**

*CREDIT: .5*

*GRADE PLACEMENT: 10 -12*

*PREREQUISITE: None*

Global Business is designed for students to analyze global trade theories, international monetary systems, trade policies, politics, and laws relating to global business as well as cultural issues, logistics, and international human resource management.

### CAREER AND TECHNICAL EDUCATION

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#### **9158 VIRTUAL BUSINESS**

*CREDIT: .5*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: Touch System Data Entry Recommended*

Start a virtual business by creating a web presence, conducting online and off-line marketing, examining contracts appropriate for an online business, and demonstrating project-management skills. Also demonstrate bookkeeping skills for a virtual business, maintain business records, and understand legal issues associated with a virtual business.

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#### **9155 BUSINESS LAW**

*CREDIT: 1*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: None*

Business Law is designed for students to analyze various aspects of the legal environment, including ethics, the judicial system, contracts, personal property, sales, negotiable instruments, agency and employment, business organization, risk management, and real property.

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#### **9157 HUMAN RESOURCES MANAGEMENT**

*CREDIT: .5*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: None*

Human Resources Management is designed to familiarize students with the concepts related to human resource management, including legal requirements, recruitment and employee selection methods, and employee development and evaluation. Students will also become familiar with compensation and benefits programs as well as workplace safety, employee-management relations, and global impacts on human resources.

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#### **9154 BUSINESS ENGLISH**

*CREDIT: 1*

*GRADE PLACEMENT: 12*

*PREREQUISITE: English 3 required and Touch System Data Recommended*

Students enhance communication and research skills by applying them to the business environment, in addition to exchanging information and producing properly formatted business documents using emerging technology.

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#### **9152 BUSINESS INFORMATION MANAGEMENT I**

*CREDIT: 1*

*GRADE PLACEMENT: (9-12)*

*PREREQUISITE: Touch System Data Entry Recommended*

In Business Information Management I, 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.

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### CAREER AND TECHNICAL EDUCATION

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#### **9153 BUSINESS INFORMATION MANAGEMENT II**

*CREDIT: 1*

*GRADE PLACEMENT: (11-12)*

*PREREQUISITE: Business Information Management I*

In Business Information Management II, students 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.

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#### **9159 BUSINESS MANAGEMENT**

*CREDIT: 1*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: None*

Business Management is designed to familiarize students with the concepts related to business management as well as the functions of management, including planning, organizing, staffing, leading, and controlling. Students will also demonstrate interpersonal and project-management skills.

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**CAREER AND TECHNICAL EDUCATION**

**EDUCATION AND TRAINING CAREER CLUSTER**

**Education**

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Principles of Human Services	Family and Community Services	Human Growth and Development	Principles of Education

*Depicts preferred course sequences*

*Career Prep, Principles and Elements of Floral Design, Professional Communications, and a Technology Course can be added to all of the coherent sequences*

**9201 PRINCIPLES OF EDUCATION AND TRAINING**

*CREDIT: 1*

*GRADE PLACEMENT: 9-12*

Principles of Education and Training is designed to introduce learners to the various careers available within the education and training career cluster. Students use self-knowledge, educational, and career information to analyze various careers within the education and training career cluster. Students will also gain an understanding of the basic knowledge and skills essential to careers within the education and training career cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area. In PE &T we learn what it takes to become a teacher, how to be a GREAT teacher, the business side of the school, and we go to the elementary school and interact with the students.

**9202 HUMAN GROWTH AND DEVELOPMENT**

*CREDIT: 1*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: None*

Human Growth and Development is an examination of human development across the lifespan with emphasis upon research, theoretical perspectives, and common physical, cognitive, emotional, and social development milestones.

**9203 INSTRUCTIONAL PRACTICES**

*CREDIT: 2*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: Recommended Principles of Education and Training*

Instructional Practices in Education and Training is a field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators or trainers in direct instructional roles with elementary, middle school and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environment, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.



### CAREER AND TECHNICAL EDUCATION

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#### **9204 PRACTICUM OF EDUCATION**

*CREDIT: 2*

*GRADE PLACEMENT: 12*

*PREREQUISITE: Recommended Principles of Education and Training, Human Growth and Development, and Instructional Practices in Education and Training*

Practicum in Education and Training is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators in direct instructional roles with elementary-, middle school-, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and complete other responsibilities of classroom teachers, trainers, paraprofessionals, or other educational personnel.

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**CAREER AND TECHNICAL EDUCATION**

**FINANCE CAREER CLUSTER**

**Finance**

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Principles of Business, Finance & Marketing	Money Matters or Financial Math	Accounting I	Accounting II

*Depicts preferred course sequences*

*Career Prep, Principles and Elements of Floral Design, Professional Communications, and a Technology Course can be added to all of the coherent sequences*

**9250 MONEY MATTERS**

*CREDIT: 1*

*GRADE PLACEMENT: 9-12*

*PREREQUISITE: Principles of Business, Marketing & Finance Recommended*

In Money Matters, students will gain an understanding of the fundamental principles of money and personal financial planning. Special emphasis is placed on bank record management, use of credit, investing, insurance, budgets, investment strategies and risk management. In addition, students are introduced to how economic systems, the role of the government, economic indicators, and international current events affect personal financial decision-making.

**9258 FINANCIAL MATHEMATICS\***

*CREDIT: 1*

*GRADE PLACEMENT: (10-12)*

*PREREQUISITE: Algebra I (Required)*

*\*This course satisfies a high school mathematics graduation requirement.*

Financial Mathematics is a course relevant to all students because it teaches how to make responsible financial decisions that, when applied, will set students up for a successful financial future. With emphasis on personal money management, students discover the components of employment earnings, federal taxes, various financial services, the cost of home-buying compared to renting, leasing vs buying a car, investment options, insurance, retirement plans, pensions, social security and annuities, estate planning, charitable giving, and budgeting. This course also helps students plan for their future by exploring postsecondary education and career options that align with their interest and skills as well as identify multiple resources for acquiring funding for education after high school.

**9251 BANKING AND FINANCIAL SERVICES**

*CREDIT: .5*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: Principles of Business, Marketing & Finance Recommended*

In Banking and Financial Services, students will develop knowledge and skills in the economic, financial, technological, international, social, and ethical aspects of banking to become competent employees and entrepreneurs. Students will incorporate a broad base of knowledge that includes the operations, sales, and management of banking institutions to gain a complete understanding of how banks function within society.

### CAREER AND TECHNICAL EDUCATION

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#### **9254 ACCOUNTING I**

*CREDIT: 1*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: Principles of Business, Marketing & Finance Recommended*

In Accounting I, students will investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information. Students will formulate and interpret financial information for use in management decision making.

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#### **9255 ACCOUNTING II**

*CREDIT: 1*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: Accounting 1*

In Accounting II, students will continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in various managerial, financial, and operational accounting activities. Students will formulate, interpret, and communicate financial information for use in management decision making. Students will use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real-world situations to maintain, monitor, control, and plan the use of financial resources.

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#### **9256 FINANCIAL ANALYSIS**

*CREDIT: 1*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: Accounting I*

In Financial Analysis, students will apply knowledge and technical skills in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students will develop analytical skills by actively evaluating financial results of multiple businesses, interpreting results for stakeholders, and presenting strategic recommendations for performance improvement.

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**CAREER AND TECHNICAL EDUCATION**

**HEALTH SCIENCE CAREER CLUSTER**

**Health Science**

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Principles of Health Science	Medical Terminology	Health Science Theory & Anatomy & Physiology	Practicum of Health Science

*Depicts preferred course sequences*

*Career Prep, Principles and Elements of Floral Design, Professional Communications, and a Technology Course can be added to all of the coherent sequences.*

**9351 PRINCIPLES OF HEALTH SCIENCE**

*CREDIT: 1*

*GRADE PLACEMENT: 9-12*

*PREREQUISITE: None*

The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. The student will be exposed to medical terms; medical, ethical, and legal issues; safety; infection control; health care careers and basic anatomy and physiology.

**9352 MEDICAL TERMINOLOGY**

*CREDIT: 1*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: Principles of Health Science*

This course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, combining forms, and singular and plural forms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

**9353 HEALTH SCIENCE THEORY**

*CREDIT: 1*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: Principles of Health Science*

The Health Science course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. The student will be exposed to safety, infection control, employment skills, vital signs, anatomy and physiology. The student will also become certified in CPR and First Aid.

### CAREER AND TECHNICAL EDUCATION

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#### **9354 PRACTICUM IN HEALTH SCIENCE**

*CREDIT: 2 - 3*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: Principles of Health Science and Health Science*

The Practicum is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students should identify the employment opportunities, technology, certifications, and safety requirements of the health care industry. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education and employment. The CNA (Certified Nursing Assistant) program is completed in two semesters through Blinn College onsite at Sealy High School. Students are prepared and state-tested to become certified nursing assistants. Students are required to pay for TB tests, a drug screen, background testing and state CNA testing fees.

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#### **9355 PRACTICUM IN HEALTH SCIENCE 2**

*CREDIT: 2 - 3*

*GRADE PLACEMENT: 12*

*PREREQUISITE: Principles of Health Science and Health Science*

The Practicum is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students should identify the employment opportunities, technology, certifications, and safety requirements of the health care industry. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education and employment.

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#### **9356 ANATOMY AND PHYSIOLOGY**

*CREDIT: 1 (4<sup>th</sup> SCIENCE CREDIT)*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: Biology and Chemistry*

In Anatomy and Physiology, students 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 study a variety of topics, including the structure and function of the human body and the interaction of body systems of maintaining homeostasis. The student will be exposed to all human body systems through lecture, notes, and labs.

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**CAREER AND TECHNICAL EDUCATION**

**HOSPITALITY AND TOURISM CAREER CLUSTER**

**Hospitality Services**

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Principles of Hospitality and Tourism	Travel and Tourism Management or Intro to Culinary Arts	Intro to Culinary Arts or Culinary Arts	Culinary Arts or Food Science

*Depicts preferred course sequences*

*Career Prep, Principles and Elements of Floral Design, Professional Communications, and a Technology Course can be added to all of the coherent sequences.*

**9401 PRINCIPLES OF HOSPITALITY AND TOURISM**

*Credit: 1*

*Grade Placement: 9-12*

*Prerequisite: None*

The hospitality and tourism industry encompasses lodging; travel and tourism; recreation, amusements, attractions, and resorts; and restaurants and food beverage service. The hospitality and tourism industry maintains the largest national employment base in the private sector. Students use knowledge and skills that meet industry standards to function effectively in various positions within this multifaceted industry. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

**9404 TRAVEL AND TOURISM MANAGEMENT**

*Credit: 1*

*Grade Placement: 10-12*

*Prerequisite: None*

This course incorporates management principles and procedures of the travel and tourism industry as well as destination geography, airlines, international travel, cruising, travel by rail, lodging, recreation, amusements, attractions, and resorts. Employment qualifications and opportunities are also included in this course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

**9403 INTRODUCTION TO CULINARY ARTS**

*Credit: 1*

*Grade Placement: 10-12*

*Prerequisite: None*

Introduction to Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking. Students will have live demonstrations and lab time to explore the science and art of food as well as nutritional and dietary needs for all ages. *Course Fee \$25.00.*

**9405 CULINARY ARTS**

**CREDIT: 1-2**

**GRADE PLACEMENT: 11-12**

**PREREQUISITE: Introduction to Culinary Arts**

Culinary Arts is a level 2 class that allows students a block two (2) hour period to dive into the art and science of food. In this laboratory-based course students will gain a deeper understanding of the elements of foods and sauces including exotics and local farm to table foods. Students will experience restaurant management, mass production and techniques as they cater staff meals. *Course Fee \$25.00.*

### CAREER AND TECHNICAL EDUCATION

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**9411 FOOD SCIENCE**

*CREDIT: 1 ( 4<sup>th</sup> SCIENCE CREDIT )*

*GRADE PLACEMENT: 12*

*PREREQUISITE: 3 Science Credits*

Food science is the study of the nature of foods, the causes of deterioration, the principles underlying food processing, and the improvement of foods for the consuming public. Students learn the science behind some of their favorite foods. Students experiment with cooking and the tastes of different foods. Students also take a look into the nutritional side of food. This course has a fee of \$25.

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**CAREER AND TECHNICAL EDUCATION**

**HUMAN SERVICES CAREER CLUSTER  
Human Services**

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Principles of Human Services	Family and Community Services	Human Growth and Development	Career Prep

*Depicts preferred course sequences*

*Career Prep, Principles and Elements of Floral Design, Professional Communications, and a Technology Course can be added to all of the coherent sequences.*

**9401 PRINCIPLES OF HUMAN SERVICES (FCCLA)**

*Credit: 1*

*Grade Placement: 9-12*

*Prerequisite: None*

"Life 101" Students in this course will focus on preparing themselves for life during and after high school. Topics include higher education and employment readiness, personal goals, time-management, relationships, apparel selections, child care and family functions. Students enrolled in this class are highly encouraged to participate in FCCLA (Family, Career, and Community Leaders of America). *This course has a \$25.00 fee for FCCLA Local, state and national dues.*

**9457 FAMILY AND COMMUNITY SERVICES**

*Credit: 1*

*Grade Placement: 10-12*

*Prerequisite: None*

"Life 102" Students will use the knowledge and skills obtained in Principles of Hospitality and apply them to the community through direct services. In this laboratory-based course students will be provided opportunities to interact and provide services with-in the local community. Students will have a deeper understanding of how to build a foundation for success while enhancing their organizational and leadership skills. Students enrolled in this class are highly encouraged to participate in FCCLA (Family, Career, and Community Leaders of America). *This course has a \$25.00 fee for FCCLA Local, state and national dues.*



**CAREER AND TECHNICAL EDUCATION**

**INFORMATION TECHNOLOGY CAREER CLUSTER**

**Information Technology/Arts and Audio Visual**

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Principles of Information Technology	Web Technologies	Digital and Interactive Media	Animation

*Depicts preferred course sequences*

*Career Prep, Principles and Elements of Floral Design, Professional Communications, and a Technology Course can be added to all of the coherent sequences.*

**9501 PRINCIPLES OF INFORMATION TECHNOLOGY**

*CREDIT: 1*

*GRADE PLACEMENT: 9-12*

*PREREQUISITE: None*

Students develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.

**9508 DIGITAL AND INTERACTIVE MEDIA**

*CREDIT: 1*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: Principles of Arts, Audio/Video Technology and Communications or Touch System Data and Professional Communication Recommended*

Digital and Interactive media is a project based class where students learn how to edit and create photos, images, and animation. Course begins with the basics and progresses to more complicated features of the Photoshop and Flash applications.

**9509 WEB TECHNOLOGIES**

*CREDIT: 1*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: Principles of Arts, Audio/Video Technology and Communications or Touch System Data and Professional Communication Recommended*

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

**CAREER AND TECHNICAL EDUCATION**

**MANUFACTURING CAREER CLUSTER**

**Manufacturing**

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Principles of Manufacturing	Precision Metal Manufacturing I	Precision Metal Manufacturing II	Practicum of Manufacturing (machining)

**Welding**

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Introduction to Welding	Welding I	Welding II	Practicum of Manufacturing (welding)

*Depicts preferred course sequences*

*Career Prep, Principles and Elements of Floral Design, Professional Communications, and a Technology Course can be added to all of the coherent sequences.*

**9611 INTRODUCTION TO WELDING**

*CREDIT: 1CREDIT*

*GRADE PLACEMENT: 9-12*

*PREREQUISITE: None*

Students will be introduced to the three basic welding processes. Topics include safety, hand and power tool machine use, measurement, and welding power sources and standards. The course fee is \$25.00.

**9603 WELDING I**

*CREDIT: 2*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: Recommended that students complete Agricultural Mechanics and Metal Technology*

Students will develop welding concepts and skills as they relate to personal and career development. This course integrates academic and technical knowledge and skills to a variety of settings and problems. Students will develop their skills in welding techniques. This course has a fee of \$25. Students will have the opportunity to earn dual credit through Blinn College onsite at Sealy High School and will receive weighted grade points if they enroll in the dual credit option through Blinn College.

**9604 WELDING II**

*CREDIT: 2 CREDITS*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: Recommended that students complete Agricultural Mechanics and Metal Technology and Welding*

Students will develop advanced welding concepts and skills as they relate to personal and career development. This course integrates academic and technical knowledge and skills to a variety of settings and problems. Students will develop their skills in welding techniques. This course has a fee of \$25. Students will have the opportunity to earn dual credit through Blinn College onsite at Sealy High School and will receive weighted grade points if they enroll in the dual credit option through Blinn College. If a student completes the Welding and Advanced Welding courses, they will have the opportunity to earn a NCCER Welding Certification.

**9601 PRINCIPLES OF MANUFACTURING**

*CREDIT: 1*

*GRADE PLACEMENT: 9 - 12*

*RECOMMENDED PREREQUISITE: Complete or concurrently enrolled in Algebra 1 or Geometry*

Students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to machining. Knowledge and skills in the proper application of principles of machining, the design of technology, the efficient production of technology, and the assessment of the effects of machining production technology prepare students for success in the modern workplace. In addition to

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### CAREER AND TECHNICAL EDUCATION

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#### **9605 PRECISION METAL MANUFACTURING I**

*CREDIT: 2*

*GRADE PLACEMENT: 10 – 12*

*RECOMMENDED PREREQUISITE: Principles of Manufacturing and completed or concurrently enrolled in Algebra 1 or Geometry*

Rapid advances in technology have created new career opportunities and demands in many industries. Precision metal manufacturing (machining) provides the knowledge, skills, and technologies required for employment in metal technology systems. Knowledge about career opportunities, requirements, expectations, and the development of workplace skills prepare students for success.

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#### **9606 PRECISION METAL MANUFACTURING II**

*CREDIT: 2*

*GRADE PLACEMENT: 11 – 12*

*RECOMMENDED PREREQUISITES: Precision Metal Manufacturing and completed or concurrently enrolled in Algebra 2*

This course is designed to enhance the technical knowledge and skills learned in Precision Metal Manufacturing by allowing students the opportunity to explore career preparation that has resulted from the rapid advances in technology and career demands in high-skill, high-wage opportunities. Advanced Precision Metal Manufacturing provides the knowledge, skills, and technologies required for employment in a globally competitive manufacturing environment.

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#### **9607 PRACTICUM IN MANUFACTURING (MACHINING OR WELDING)**

*CREDIT: 2*

*GRADE PLACEMENT: 12*

The practicum course in machining is a paid or unpaid capstone experience for students participating in a coherent sequence of machining courses.

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## CAREER AND TECHNICAL EDUCATION

### Marketing

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#### **9654 SPORTS AND ENTERTAINMENT MARKETING**

*CREDIT: .5*

*GRADE PLACEMENT: 9-12*

*PREREQUISITE: Principles of Business, Marketing, and Finance Recommended*

Sports and Entertainment Marketing will provide students with a thorough understanding of the marketing concepts and theories that apply to sports and entertainment. The main topics this course will cover include basic marketing concepts, publicity, sponsorship, endorsements, licensing, branding, event marketing, promotions, and sports and entertainment marketing strategies.

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#### **9652 FASHION MARKETING**

*CREDIT: .5*

*GRADE PLACEMENT: 9-12*

*PREREQUISITE: None*

Students in fashion marketing will gain the knowledge of various business functions in the fashion industry. Students will learn about the importance of fashion, functions of marketing, promotion, textiles, merchandising, selling, determining client wants and needs, visual merchandising and career opportunities.

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#### **9659 SOCIAL MEDIA MARKETING**

*CREDIT: .5*

*GRADE PLACEMENT: 9-12*

*PREREQUISITE: Principles of Business, Marketing, and Finance Recommended*

Social Media Marketing is designed to look at the rise of social media and how marketers are integrating social media tools in their overall marketing strategy. The course will investigate how the marketing community measures success in the new world of social media. Students will manage a successful social media presence for an organization, understand techniques for gaining customer and consumer buy-in to achieve marketing goals, and properly select social media platforms to engage consumers and monitor and measure the results of these efforts.

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**CAREER AND TECHNICAL EDUCATION**

**SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS CAREER CLUSTER**

**Project Lead the Way**

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Introduction to Engineering Design	Principles of Engineering	Environmental Sustainability	Capstone Course

*Depicts preferred course sequences*

*Career Prep, Principles and Elements of Floral Design, Professional Communications, and a Technology Course can be added to all of the coherent sequences.*

**9719 INTRO TO ENGINEERING DESIGN-IED**

*CREDIT: 1*

*GRADE PLACEMENT: 9-12*

*PREREQUISITE: None*

Students use a problem-solving model to improve existing products and invent new ones. Using sophisticated 3-dimensional modeling software, students communicate the details of the products. Emphasis is placed on analyzing potential solutions and communicating ideas to others.

**9717 PRINCIPLES OF ENGINEERING**

*CREDIT: 1*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: Introduction to Engineering*

Students use activities and projects in learning how engineers and technicians use math, science and technology in an engineering problem-solving process in their professions. This course explores a variety of engineering and technology careers, investigating various technology systems and manufacturing processes. This course will count as a dual credit course with weighted points for students who register for the dual credit portion through UT Tyler. Students must register with UT Tyler prior to the end of the previous school year.

**???? ENVIRONMENTAL SUSTAINABILITY**

*CREDIT: 1*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: Principles of Engineering*

In this course students will specifically look at how environmental and biological engineering of organisms can be used to provide environmentally friendly and sustainable solutions to ensure food security for a growing world population; provide affordable, renewable energy; and provide clean, safe drinking water. This course will count as an Advanced Placement course with weighted credit. This course counts as a science for the STEM endorsement.

**9710 PRINCIPLES OF TECHNOLOGY**

*CREDIT: 1 RECOMMENDED SCIENCE CREDIT*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: Completion of Biology and IPC or Chemistry*

In Principles of Technology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Various systems will be described in terms of space, time, energy, momentum, electricity, magnetism, thermodynamics, and characteristics and behavior waves. Students will apply physics concepts and perform laboratory experimentations for at least 40% of instructional time using safe practices.

**CAREER AND TECHNICAL EDUCATION**

**TRANSPORTATION, DISTRIBUTION, AND LOGISTICS CAREER CLUSTER**

**Auto Technology**

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Automotive Basics	Automotive Technology I	Automotive Technology II	Practicum in Transportation

**Auto Collision**

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
Basic Collision Repair and Refinishing	Collision Repair	Paint and Refinishing	Practicum in Transportation

*Depicts preferred course sequences*

*Career Prep, Principles and Elements of Floral Design, Professional Communications, and a Technology Course can be added to all of the coherent sequences.*

**9763 AUTOMOTIVE BASICS**

*CREDIT: 1*

*GRADE PLACEMENT: 9-12*

*PREREQUISITE: None*

Automotive Basics include knowledge of entry-level automotive maintenance and repair of common vehicle servicing. Introduction to tools, equipment, the overall process, and careers in the automotive field.

**9755 AUTOMOTIVE TECHNOLOGY I**

*CREDIT: 2*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: Automotive Basics*

Automotive Technology includes knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. Students are able to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings.

**9756 AUTOMOTIVE TECHNOLOGY II**

*CREDIT: 2*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: Automotive I*

Automotive services include advanced knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. Students gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings.

**9757 BASIC COLLISION REPAIR AND REFINISHING**

*CREDIT: 1*

*GRADE PLACEMENT: 9-12*

*PREREQUISITE: None*

Collision repair and refinishing services include knowledge of the process, technologies, and materials used in the reconstruction and alteration of vehicles. This course is designed to teach the concepts and theory of systems related to automotive collision repair and refinishing.

# CAREER AND TECHNICAL EDUCATION TRANSPORTATION, DISTRIBUTION, AND LOGISTICS CAREER CLUSTER

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### **9757 COLLISION REPAIR**

*CREDIT: 2*

*GRADE PLACEMENT: 10-12*

*PREREQUISITE: Basic Collision Repair and Refinishing*

Collision repair services include advanced knowledge of the processes, technologies, and materials used in the reconstruction and alteration of vehicles. This course is designed to teach the application of advanced technical skills and practices related to collision repair and refinishing.

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### **9758 PAINT AND REFINISHING**

*CREDIT: 2*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: Collision Repair*

The Paint and Refinishing course is designed to provide training in advanced processes in automotive painting and repair. Students gain knowledge and skills in quoting cost and practical applications in shop management. Students will have a practical application of knowledge and skills.

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### **9763 PRACTICUM IN TRANSPORTATION**

*CREDIT: 2*

*GRADE PLACEMENT: 12*

*PREREQUISITE: Automotive Technology I or Paint and Refinishing*

The Practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study, or laboratories.

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# CAREER AND TECHNICAL EDUCATION

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## CAREER DEVELOPMENT

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### **9801 CAREER PREPARATION I**

*CREDIT: 2*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: Employment at an approved training site*

*Note: Students must provide their own transportation & are required to work an average of 15 hours per week.*

Career Preparation I provides work-based learning experiences that combine classroom instruction with the student's paid employment experience to prepare students for a changing workforce with an emphasis on a variety of workplace skills including interviewing techniques, work ethics, employer expectations, communication skills, financial and budget activities, safety in the workplace, human relations and portfolio development. The Career Preparation program supports strong partnerships between the school, businesses and the community.

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### **9802 CAREER PREPARATION II**

*CREDIT: 2*

*GRADE PLACEMENT: 12*

*PREREQUISITE: Career Preparation I and Employment at an approved training site*

*Note: Students must provide their own transportation & are required to work an average of 15 hours per week.*

Career Preparation II develops essential knowledge and skills through advanced classroom instruction with business and industry employment experiences and further allows students to develop employability, leadership, management, work ethics, safety and communication as a group. The Career Preparation program supports strong partnerships between the school, businesses and the community.

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### **9806 EXTENDED CAREER PREPARATION**

*CREDIT: 1*

*GRADE PLACEMENT: 11 & 12*

*PREREQUISITE: None*

*COREQUISITE: Career Preparation I or Career Preparation II*

Extended Career Preparation provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. Students who have met credit requirements for core classes may be eligible for up to 3 Career Preparation class periods. Students must be concurrently enrolled in Career Prep I or II.

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### **9803 PROJECT BASED RESEARCH**

*CREDIT: 1*

*GRADE PLACEMENT: 11-12*

*PREREQUISITE: None*

Who am I? Why am I here? What am I meant to do with my life? A project based research is a course for students to research a real world problem. Students are to develop an original project on a topic related to their career interest, then conduct in-depth research, compile findings, and present their findings.

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