Sealy Independent School District

ACADEMIC PLANNING GUIDE 2022-2023

939 Tiger Lane, Sealy, TX 77474 979.885.3516 www.sealyisd.com



Sealy Independent School District is committed to ensuring high levels of learning for all.

ACADEMIC PLANNING GUIDE

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

2022-2023

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 students 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 CTE 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.

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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 study that will prepare you for a variety of opportunities. Sealy ISD offers 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-reguisites 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 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 32-43. 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

High

	next year.
ı S	chool Students and Parents:
	Review the graduation programs and requirements in Section II on pages 32-43. Also familiarize yourself with the information provided regarding calculation of students' GPA on pages 46-47.
	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.
	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.

Please visit <u>Texas OnCourse</u> for more resources.

SEALY ISD ENDORSEMENT OPTIONS

MULTIDISCIPLINARY STUDIES

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

- Four additional/advanced courses that prepare a student to enter the workforce successfully or postsecondary education without remediation from within one endorsement area or among endorsement areas that are not in a coherent sequence
- Four credits in each of the four foundation subject areas to include chemistry and/or physics and English 4 or a comparable AP or IB English course
- Four credits in Advanced Placement, International Baccalaureate, or dual credit selected from English, mathematics, science, social studies, economics, languages other than English, or fine arts

STEM

A student may earn a STEM Endorsement by completing the requirements of the FHSP, including Algebra II, Chemistry, Physics, and one of the following:

- A coherent sequence of courses for four CTE credits, including: at least 2 courses in the same career cluster, and at least 1 advanced CTE course that is the 3rd course or higher in a sequence related to STEM
- Successful completion of 2 additional math courses for which Algebra II is a prerequisite
- Successful completion of 2 additional science credits beyond Biology, chemistry, and Physics
- In addition to Algebra II, chemistry, and physics, a coherent sequence of three additional credits from no more than two of the categories or disciplines above

BUSINESS AND INDUSTRY

A student may earn a business and industry endorsement by completion of the FHSP and at least one of the following:

- A coherent sequence of courses for four or more credits in CTE that consists of at least two courses in the same career cluster and at least one advanced CTE course. The final course in the sequence must be selected from the selected endorsement area or Career Preparation or Project-Based Research.
- Courses required to complete a TEA-designated program of study related to business and industry
- Four English elective credits by selecting three levels in one of the following areas:
 - o public speaking; or
 - o debate; or
 - o advanced broadcast journalism; or
 - o advanced journalism: newspaper; or
 - o advanced journalism: yearbook; or
 - o advanced journalism: literary magazine; or
- A coherent sequence of four credits from within the Business & Industry endorsement

PUBLIC SERVICES

A student may earn a public services endorsement by completing the FHSP and one of the following:

 A coherent sequence of courses for four or more credits in CTE that consists of at least two courses in the same career cluster and at least one advanced CTE course. The final course in the sequence must be selected from the selected endorsement area or Career Preparation or Project-Based Research.

ARTS AND HUMANITIES

A student may earn an arts and humanities endorsement completion of the FHSP and at least one of the following:

- Five social studies credits
- Four levels of the same language in a language other than English
- Two levels of the same language in a language other than English and two levels of a different language in a language other than English
- Four levels of American sign language
- A coherent sequence of four credits by selecting courses from one or two categories or disciplines in fine arts
- Four English elective credits by selecting from the following:
 - o English IV; or
 - o Independent Study in English; or
 - o Literary Genres; or
 - Creative Writing; or
 - Research and Technical Writing; or
 - Humanities: or
 - Communication Applications; or
 - o AP English Literature and Composition; or
 - AP English Language and Composition; or

SECTION 1:SEALY JUNIOR HIGH

JUNIOR HIGH SCHOOL

REQUIRED COURSES FOR GRADE LEVEL PROMOTION

During the course of students' 6th-8th grade academic careers each student must complete:

- four core academic courses (ELAR, Math, Science, and Social Studies) for each grade level;
 and
- 2 total credits for Physical Education either through completion of general PE courses,
 Outdoor Adventures, or Pre-Athletics and Athletics courses
- All 6th and 7th Grade students must enroll in a Physical Education credit course.

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

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 <u>not</u> included in the calculation of students' 9th-12th grade GPA. Courses offered at Sealy Junior High that are eligible for high school credit include:

•	PLTW - Gateway 1	(0.5 Credit)
_	PLTW - Gateway 2	` ,
•	•	(0.5 Credit)
•	PLTW - Gateway 3	(0.5 Credit)
•	PLTW - Gateway 4	(0.5 Credit)
•	General Employability Skills	(1.0 Credit)
•	Technology Applications I	(0.5 Credit)
•	Technology: Lights, Camera, Action!	(1.0 Credit)
•	Algebra I	(1.0 Credit)
•	Spanish I	(1.0 Credit)
•	German 1	(1.0 Credit)

GIFTED AND TALENTED

Identified gifted and talented students are served in their areas of strength in the AE classes in English Language Arts and Reading and Mathematics. Teachers of the AE courses have received the state-required gifted and talented training.

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 AE 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.

ACADEMIC EXCELLENCE (AE) COURSES

Academic Excellence (AE) 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. AE 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 an AE 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.

Entrance Guidelines for Junior High School AE Courses

The purpose of the AE entrance and exit guidelines is to provide placement information to facilitate student success in academically challenging courses. AE 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 AE courses.

These guidelines are recommendations. Our policy is open enrollment in AE Courses.

- Prerequisite coursework is successfully completed.
- Current or previous performance in related content area course:
 - A semester average of 90 -100 in an academic course OR
 - A semester average of 80 or above in an AE course.
- 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.

Exit Guidelines for Junior High School AE Courses

Students petitioning to exit an AE 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 an AE 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 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.

JUNIOR HIGH COURSE DESCRIPTIONS

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

Course sequences are recommendations based on best practices.

Advanced courses previously referred to as Pre-AP will now be referred to as Academic Excellence or AE courses.

ENGLISH LANGUAGE ARTS and READING

Required: 3 Credits

Credits must include: ELAR-6, ELAR-7, and ELAR-8 or their AE equivalents

6th	7th	8th
ELAR-6	ELAR-7	ELAR-8
AE ELAR-6	AE ELAR-7	AE ELAR-8

ENGLISH LANGUAGE ARTS AND READING (ELAR) 6-8

Grade Placement: 6-8 Prerequisite: None

Assessments: Grade Associated STAAR Reading (6-8), Grade 7 STAAR Writing

The English language arts and reading Texas Essential Knowledge and Skills (TEKS) embody the interconnected nature of listening, speaking, reading, writing, and thinking through the seven integrated strands of developing and sustaining foundational language skills; comprehension; response; multiple genres; author's purpose and craft; composition; and inquiry and research. The strands focus on academic oracy (proficiency in oral expression and comprehension), authentic reading, and reflective writing to ensure a literate Texas. The strands are integrated and progressive with students continuing to develop knowledge and skills with increased complexity and nuance in order to think critically and adapt to the ever-evolving nature of language and literacy.

The seven strands of the essential knowledge and skills for English language arts and reading are intended to be integrated for instructional purposes and are recursive in nature. Strands include the four domains of language (listening, speaking, reading, and writing) and their application in order to accelerate the acquisition of language skills so that students develop high levels of social and academic language proficiency. Although some strands may require more instructional time, each strand is of equal value, may be presented in any order, and should be integrated throughout the year. Additionally, students should engage in academic conversations, write, read, and be read to on a daily basis with opportunities for cross-curricular content and student choice.

AE ENGLISH LANGUAGE ARTS AND READING (ELAR) 6-8

Grade Placement: 6-8 Prerequisite: None

Assessments: Grade Associated STAAR Reading (6-8), Grade 7 STAAR Writing

The AE 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. The English language arts and reading Texas Essential Knowledge and Skills (TEKS) embody the interconnected nature of listening, speaking, reading, writing, and thinking through the seven integrated strands of developing and sustaining foundational language skills; comprehension; response; multiple genres; author's purpose and craft; composition; and inquiry and research. The strands focus on academic oracy (proficiency in oral expression and comprehension), authentic reading, and reflective writing to ensure a literate Texas. The strands are integrated and progressive with students continuing to develop knowledge and skills with increased complexity and nuance in order to think critically and adapt to the ever-evolving nature of language and literacy.

The seven strands of the essential knowledge and skills for English language arts and reading are intended to be integrated for instructional purposes and are recursive in nature. Strands include the four domains of language (listening, speaking, reading, and writing) and their application in order to accelerate the acquisition of language skills so that students develop high levels of social and academic language proficiency. Although some strands may require more instructional time, each strand is of equal value, may be presented in any order, and should be integrated throughout the year. Additionally, students should engage in academic conversations, write, read, and be read to on a daily basis with opportunities for cross-curricular content and student choice.

MATHEMATICS

Required: 3 Credits

Credits must include: Math-6, Math-7, and Math-8 or their AE equivalents, including Algebra I

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

6th	7th	8th
Math-6	Math-7	Math-8
AE Math-6	AE Math-7	Algebra I

MATH-6

Grade Placement: 6 Prerequisite: None

Assessments: Grade 6 STAAR Mathematics

The primary focal areas in Grade 6 are number and operations; proportionality; expressions, equations, and relationships; and measurement and data. Students use concepts, algorithms, and properties of rational numbers to explore mathematical relationships and to describe increasingly complex situations. Students use concepts of proportionality to explore, develop, and communicate mathematical relationships. Students use algebraic thinking to describe how a change in one quantity in a relationship results in a change in the other. Students connect verbal, numeric, graphic, and symbolic representations of relationships, including equations and inequalities. Students use geometric properties and relationships, as well as spatial reasoning, to model and analyze situations and solve problems. Students communicate information about geometric figures or situations by quantifying attributes, generalize procedures from measurement experiences, and use the procedures to solve problems. Students use appropriate statistics, representations of data, and reasoning to draw conclusions, evaluate arguments, and make recommendations. While the use of all types of technology is important, the emphasis on algebra readiness skills necessitates the implementation of graphing technology.

AE MATH-6

Grade Placement: 6 Prerequisite: None

Assessments: Grade 6 STAAR Mathematics

The AE 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.

AE Math-6 includes all of the Texas Essential Knowledge and Skills (TEKS) for Grade 6 Mathematics and part of the TEKS from Grade 7 Mathematics.

The primary focal areas in Grade 6 are number and operations; proportionality; expressions, equations, and relationships; and measurement and data. Students use concepts, algorithms, and properties of rational numbers to explore mathematical relationships and to describe increasingly complex situations. Students use concepts of proportionality to explore, develop, and communicate mathematical relationships. Students use algebraic thinking to describe how a change in one quantity in a relationship results in a change in the other. Students connect verbal, numeric, graphic, and symbolic representations of relationships, including equations and inequalities. Students use geometric properties and relationships, as well as spatial reasoning, to model and analyze situations and solve problems. Students communicate information about geometric figures or situations by quantifying attributes, generalize procedures from measurement experiences, and use the procedures to solve problems. Students use appropriate statistics, representations of data, and reasoning to draw conclusions, evaluate arguments, and make recommendations. While the use of all types of technology is important, the emphasis on algebra readiness skills necessitates the implementation of graphing technology.

MATH-7

Grade Placement: 7 Prerequisite: None

Assessments: Grade 7 STAAR Mathematics

The primary focal areas in Grade 7 are number and operations; proportionality; expressions, equations, and relationships; and measurement and data. Students use concepts, algorithms, and properties of rational numbers to explore mathematical relationships and to describe increasingly complex situations. Students use concepts of proportionality to explore, develop, and communicate mathematical relationships, including number, geometry and measurement, and statistics and probability. Students use algebraic thinking to describe how a change in one quantity in a relationship results in a change in the other. Students connect verbal, numeric, graphic, and symbolic representations of relationships, including equations and inequalities. Students use geometric properties and relationships, as well as spatial reasoning, to model and analyze situations and solve problems. Students communicate information about geometric figures or situations by quantifying attributes, generalize procedures from measurement experiences, and use the procedures to solve problems. Students use appropriate statistics, representations of data, and reasoning to draw conclusions, evaluate arguments, and make recommendations. While the use of all types of technology is important, the emphasis on algebra readiness skills necessitates the implementation of graphing technology.

AE MATH-7

Grade Placement: 7 Prerequisite: AE Math-6

Assessments: Grade 8 STAAR Mathematics

The AE 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.

AE Math-7 includes the remainder of the Texas Essential Knowledge and Skills (TEKS) for Grade 7 Mathematics and all of the TEKS from Grade 8 Mathematics.

The primary focal areas in Grade 7 are number and operations; proportionality; expressions, equations, and relationships; and measurement and data. Students use concepts, algorithms, and properties of rational numbers to explore mathematical relationships and to describe increasingly complex situations. Students use concepts of proportionality to explore, develop, and communicate mathematical relationships, including number, geometry and measurement, and statistics and probability. Students use algebraic thinking to describe how a change in one quantity in a relationship results in a change in the other. Students connect verbal, numeric, graphic, and symbolic representations of relationships, including equations and inequalities. Students use geometric properties and relationships, as well as spatial reasoning, to model and analyze situations and solve problems. Students communicate information about geometric figures or situations by quantifying attributes, generalize procedures from measurement experiences, and use the procedures to solve problems. Students use appropriate statistics, representations of data, and reasoning to draw conclusions, evaluate arguments, and make recommendations. While the use of all types of technology is important, the emphasis on algebra readiness skills necessitates the implementation of graphing technology.

MATH-8

Grade Placement: 8 Prerequisite: None

Assessments: Grade 8 STAAR Mathematics

The primary focal areas in Grade 8 are proportionality; expressions, equations, relationships, and foundations of functions; and measurement and data. Students use concepts, algorithms, and properties of real numbers to explore mathematical relationships and to describe increasingly complex situations. Students use concepts of proportionality to explore, develop, and communicate mathematical relationships. Students use algebraic thinking to describe how a change in one quantity in a relationship results in a change in the other. Students connect verbal, numeric, graphic, and symbolic representations of relationships, including equations and inequalities. Students begin to develop an understanding of functional relationships. Students use geometric properties and relationships, as well as spatial reasoning, to model and analyze situations and solve problems. Students communicate information about geometric figures or situations by quantifying attributes, generalize procedures from measurement experiences, and use the procedures to solve problems. Students use appropriate statistics, representations of data, and reasoning to draw conclusions, evaluate arguments, and make recommendations. While the use of all types of technology is important, the emphasis on algebra readiness skills necessitates the implementation of graphing technology.

ALGEBRA I

Grade Placement: 8

Prerequisite: AE Math-6 and AE Math-7

Assessments: Algebra I EOC

In Algebra I, students will build on the knowledge and skills for mathematics in Grades 6-8, which provide a foundation in linear relationships, number and operations, and proportionality. Students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. Students will use technology to collect and explore data and analyze statistical relationships. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables and will create new functions through transformations.

SCIENCE

Required: 3 Credits

Credits must include: Interdisciplinary Science, Life Science, and Earth and Space Science

Sealy Junior High Science classes are specifically designed to offer every student the highest level of rigor, independence, project-based learning, and extensions. Our classes focus on providing a high level of engagement and giving students optimum comprehension of Science concepts.

6th	7th	8th
Interdisciplinary Science	Life Science	Earth and Space Science

INTERDISCIPLINARY SCIENCE

Grade Placement: 6 Prerequisite: None Assessments: None

Grade 6 science is interdisciplinary in nature; however, much of the content focus is on physical science. National standards in science are organized as multi-grade blocks such as Grades 5-8 rather than individual grade levels. In order to follow the grade level format used in Texas, the various national standards are found among Grades 6, 7, and 8. Recurring themes are pervasive in sciences, mathematics, and technology. These ideas transcend disciplinary boundaries and include change and constancy, patterns, cycles, systems, models, and scale.

LIFE SCIENCE

Grade Placement: 7 Prerequisite: None Assessments: None

Grade 7 science is interdisciplinary in nature; however, much of the content focus is on organisms and the environment. National standards in science are organized as multi-grade blocks such as Grades 5-8 rather than individual grade levels. In order to follow the grade level format used in Texas, the various national standards are found among Grades 6, 7, and 8. Recurring themes are pervasive in sciences, mathematics, and technology. These ideas transcend disciplinary boundaries and include change and constancy, patterns, cycles, systems, models, and scale.

EARTH AND SPACE SCIENCE

Grade Placement: 8 Prerequisite: None

Assessments: Grade 8 STAAR Science

Grade 8 science is interdisciplinary in nature; however, much of the content focus is on earth and space science. National standards in science are organized as multi-grade blocks such as Grades 5-8 rather than individual grade levels. In order to follow the grade level format used in Texas, the various national standards are found among Grades 6, 7, and 8. Recurring themes are pervasive in sciences, mathematics, and technology. These ideas transcend disciplinary boundaries and include change and constancy, patterns, cycles, systems, models, and scale.

SOCIAL STUDIES

Required: 3 Credits
Credits must include: World Geography, Texas History, and US History

Sealy Junior High Social Studies classes are specifically designed to offer every student the highest level of rigor, independence, project-based learning, and extensions. Our classes focus on providing a high level of engagement and giving students optimum comprehension of Social Studies concepts.

6th	7th	8th
World Geography	Texas History	US History

WORLD GEOGRAPHY

Grade Placement: 6 Prerequisite: None Assessments: None

In Grade 6, students study people, places, and societies of the contemporary world. Societies for study are from the following regions of the world: Europe, Russia and the Eurasian republics, North America, Central America and the Caribbean, South America, Southwest Asia-North Africa, Sub-Saharan Africa, South Asia, East Asia, Southeast Asia, Australia, and the Pacific realm. Students describe the influence of individuals and groups on historical and contemporary events in those societies and identify the locations and geographic characteristics of various societies. Students identify different ways of organizing economic and governmental systems. The concepts of limited and unlimited government are introduced, and students describe the nature of citizenship in various societies. Students compare institutions common to all societies such as government, education, and religious institutions. Students explain how the level of technology affects the development of the various societies and identify different points of view about events. The concept of frame of reference is introduced as an influence on an individual's point of view.

TEXAS HISTORY

Grade Placement: 7 Prerequisite: None Assessments: None

In Grade 7, students study the history of Texas from early times to the present. Content is presented with more depth and breadth than in Grade 4. Students examine the full scope of Texas history, including Natural Texas and its People; Age of Contact; Spanish Colonial; Mexican National; Revolution and Republic; Early Statehood; Texas in the Civil War and Reconstruction; Cotton, Cattle, and Railroads; Age of Oil; Texas in the Great Depression and World War II; Civil Rights and Conservatism; and Contemporary Texas eras. The focus in each era is on key individuals, events, and issues and their impact. Students identify regions of Texas and the distribution of population within and among the regions and explain the factors that caused Texas to change from an agrarian to an urban society. Students describe the structure and functions of municipal, county, and state governments, explain the influence of the U.S. Constitution on the Texas Constitution, and examine the rights and responsibilities of Texas citizens. Students use primary and secondary sources to examine the rich and diverse cultural background of Texas as they identify the different racial and ethnic groups that settled in Texas to build a republic and then a state. Students analyze the impact of scientific discoveries and technological innovations on the development of Texas in various industries such as agricultural, energy, medical, computer, and aerospace. Students use primary and secondary sources to acquire information about Texas.

US HISTORY

Grade Placement: 8 Prerequisite: None

Assessments: Grade 8 STAAR Social Studies

In Grade 8, students study the history of the United States from the early colonial period through Reconstruction. The content in Grade 8 builds upon that from Grade 5 but provides more depth and breadth. Historical content focuses on the political, economic, religious, and social events and issues related to the colonial and revolutionary eras, the creation and ratification of the U.S. Constitution, challenges of the early republic, the Age of Jackson, westward expansion, sectionalism, Civil War, and Reconstruction. Students describe the physical characteristics of the United States and their impact on population distribution and settlement patterns in the past and present. Students analyze the various economic factors that influenced the development of colonial America and the early years of the republic and identify the origins of the free enterprise system. Students examine the American beliefs and principles, including limited government, checks and balances, federalism, separation of powers, and individual rights, reflected in the U.S. Constitution and other historical documents. Students evaluate the impact of Supreme Court cases and major reform movements of the 19th century and examine the rights and responsibilities of citizens of the United States as well as the importance of effective leadership in a constitutional republic. Students evaluate the impact of scientific discoveries and technological innovations on the development of the United States. Students use critical-thinking skills, including the identification of bias in written, oral, and visual material.

ELECTIVES

MUSIC

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.

MUSICAL THEATRE

Grade Placement: 7-8
Prerequisite: None

This course will expose students to a wide range of on-stage performance disciplines, including acting performance, vocal performance, and dance performance. This course will enable students to study and perform the varied styles of musical theatre with special attention to the principles of stage movement, stage vocal techniques, stage choreography, acting, characterization, and other aspects of a musical production.

CHOIR

6TH 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.

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.

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.

ADVANCED GIRLS CHOIR

GRADE PLACEMENT: 7-8
PREREQUISITE: None

Students will learn choral reading techniques, ear training, vocal production, solfege, and basic theory. This course is for 7th or 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.

BAND

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.

CONCERT BAND

GRADE PLACEMENT: 7-8
PREREQUISITE: Audition

This is an entry level band course, and is open to junior high 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 band literature. Members of this band are required to perform in several concerts throughout the school year and are eligible to participate in District Region Band competition. After school sectional rehearsals are a requirement for this course. Students may, with director approval, enroll in Band Technique class as well as this course.

SYMPHONIC BAND

GRADE PLACEMENT: 7-8

PREREQUISITE: Audition and concurrent enrollment in Band Technique

This course is third level band class and students will be placed in this band with director approval. Students in this band are also required to enroll in Band Technique. This class is designed for band students who wish to continue their musical training or learn a second musical instrument. Emphasis is placed on developing instrumental techniques, musicianship, and performance skills through the study of band literature. Members of this band are required to perform in several concerts and pep rallies and are on display throughout the school year at various events. Students are required to participate in District Region Band competition and the District Solo & Ensemble Festival. After school sectional rehearsals are a requirement for this course. Students may, with director approval, enroll in band technique class as well as this course. After school sectional rehearsals are a requirement of this course.

BAND TECHNIQUE

GRADE PLACEMENT: 7-8

PREREQUISITE: Concurrent enrollment in Symphonic Band or Director Placement

This unique instrumental course is required for all Symphonic Band members and open to select Concert Band students. Class time is divided among music theory, music history, individual instruction and practice and small group instruction and practice. Students must compete in the District All Region Band competition and the District Solo and Ensemble Festival.

ART

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.

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.

ART II

GRADE PLACEMENT: 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 prerequisite of at least one year of art in 6th and 7th grade.

THEATRE ARTS

THEATER ARTS

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 theater. Students will be required to perform in class.

THEATER PRODUCTION

GRADE PLACEMENT: 8

PREREQUISITE: 1-2 years of Theatre Arts; Audition

Theater Production is an advanced theatre class that is production intensive. The purchase of some theatrical supplies is required. Due to the nature and dynamics of the class, student enrollment is limited. Students will be required to participate in all SJH Theatre shows as a performer, tech crew member or house crew member. After school rehearsals and performances are required. Students will audition for the class.

PE/ATHLETICS

Required: 2 Credits

6 th	7 th	8 th
PE-6	PE-7	PE-8
Pre-Athletics	Athletics-7	Athletics-8

All SJH PE and Pr-Athletic/Athletics courses are gender specific.

All 6th and 7th Grade Students must enroll in a Physical Education credit course.

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.

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 grades 7-8.

ATHLETICS

GRADE PLACEMENT: 7-8

PREREQUISITE: Pre-Athletics, unless student is new to Sealy ISD, or at coaches discretion

All student-athletes in the athletic period must be an active participant in the athletic program. Those student-athletes who are not actively participating in a sport may be denied entry or may be removed at the coach's discretion.

All student-athletes, to be eligible to participate in the athletic program, must pass all subjects during the current six week period. There is a three week suspension from participation in athletic competition with any failing report. NO PASS, NO PLAY. If a student athlete is not eligible for two consecutive grading periods that student athlete may be subject to dismissal from the program. A student-athlete, who fails to participate in an athletic event throughout the year due to ineligibility, will be dismissed from the program the following year.

All student-athletes will be held accountable for actions considered "conduct detrimental to the team or program." Failure to adhere to the athletic code of conduct may result in the student athlete being removed from the athletic period or program.

OUTDOOR ADVENTURES

GRADE PLACEMENT: 7-8
PREREQUISITE: None

Outdoor Adventures may be taken only once as either a substitution PE credit in Grade 7 or as an elective in Grades 7 and 8.

This physical education class is not your traditional PE course. Instead of teaching PE with basketballs and tennis rackets, students use rods and reels and bows and arrows. This course is designed to change young people's lives forever by exposing them to the many great opportunities of the outdoors.

This course is a 36 week (two semesters) course and covers the following:

- Texas Parks and Wildlife Department's Angler Education
- Texas Parks and Wildlife Department's Boater Education
- Texas Parks and Wildlife Department's Hunter Education
- National Archery in Schools Program
- Orienteering and GPS Basic Unit
- Survival Skills Short Unit
- Camping
- Outdoor Cooking
- Challenge Course
- CPR/First Aid

HIGH SCHOOL CREDIT ELECTIVES

LANGUAGES OTHER THAN ENGLISH

SPANISH 1

HIGH SCHOOL CREDIT: 1.0 GRADE PLACEMENT: 8

PREREQUISITE: Achievement of at least Approaches on the GR 7 STAAR Reading and GR 7 STAAR Writing

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 cultural 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.

GERMAN 1

High School Credit: 1.0 GRADE PLACEMENT: 8

PREREQUISITE: Achievement of at least Approaches on the GR 7 STAAR Reading and GR 7 STAAR Writing COURSE OFFERING SUBJECT TO TEACHER AVAILABILITY

This class is designed to teach the basic grammatical concepts of the German language to the novice learner. The four communication 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.

CTE ELECTIVES

Please note that our CTE offerings are dependent upon the availability of staff.

GENERAL EMPLOYABILITY SKILLS

HIGH SCHOOL CREDIT: 1
GRADE PLACEMENT: 8
PREREQUISITE: None

This course will provide instruction in general employability skills as well as the prerequisite skills for general employability. Employability skills are the skills and attitudes that allow employees to get along with their co-workers, make important work-related decisions and become strong members of the work team. Discovering job possibilities that link skills, abilities, interests, values, needs, and work environment preferences is an experiential learning process that takes place over time.

This course is designed to guide students through learning these skills that can be transferable among a variety of jobs and careers and are considered essential in any employment situation. Students will learn and apply basic knowledge of what is expected in the world of work.

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 Junior FFA members to transition to FFA membership or any student interested in becoming an FFA member. <u>Junior FFA membership is encouraged.</u>

TECHNOLOGY APPLICATIONS I

HIGH SCHOOL CREDIT: 0.5GRADE PLACEMENT: 6-8
PREREQUISITE: None

Keyboarding skills are 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.

This is a single semester course that substitutes for Touch System Data Entry (state credit course) and must be taken in conjunction with Technology Applications II.

TECHNOLOGY APPLICATIONS II

Grade Placement: 6-8

Prerequisite: Technology Applications I

Through the study of technology applications, students make informed decisions by understanding current and emerging technologies, including technology systems, appropriate digital tools, and personal learning networks. As competent researchers and responsible digital citizens, students use creative and computational thinking to solve problems while developing career and college readiness skills.

This is a single semester local credit course and must be taken in conjunction with Technology Applications I.

TECHNOLOGY: LIGHTS, CAMERA, ACTION!

HIGH SCHOOL CREDIT: 1.0 Grade Placement: 7-8 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.

This is a two semester course that substitutes for Principles of Arts and Audio/Video Technology and Communications (state credit course).

PROJECT LEAD THE WAY (PLTW)

GATEWAY TO TECHNOLOGY 1: DESIGN & MODELING

HIGH SCHOOL CREDIT: 0.5 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.

GATEWAY TO TECHNOLOGY 2: AUTOMATION & ROBOTICS

HIGH SCHOOL CREDIT: 0.5GRADE 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.

GATEWAY TO TECHNOLOGY 3: MEDICAL DETECTIVES

HIGH SCHOOL CREDIT: 0.5GRADE PLACEMENT: 8

PREREQUISITE: Design & Modeling, Automation & Robotics

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.

GATEWAY TO TECHNOLOGY 4: GREEN ARCHITECTURE

HIGH SCHOOL CREDIT: 0.5GRADE PLACEMENT: 8

PREREQUISITE: Design & Modeling, Automation & Robotics, and Medical Detectives

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.

SECTION 2: SEALY HIGH SCHOOL

HIGH SCHOOL GRADUATION REQUIREMENTS

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 tests 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 a student to be considered a senior at the beginning of the school year they must have 18+ credits. 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. 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. 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.

GRADUATION REQUIREMENTS Class of 2023 and 2024

Students entering 9th grade in the 2014-2015 school year and thereafter.

	Foundation High School	Foundation Program w/	Distinguished Achievement
	Program	Endorsements	
English Language Arts	English I English II English III Advanced English	English I English II English III Advanced English	Students must: Complete the Foundation Program Complete one or more endorsements Complete 4 Science credits Complete four math credits including Algebra
Mathematics	Algebra I Geometry Advanced Math	Algebra I Geometry Advanced Math Advanced Math	
Science	Biology IPC or Advanced Science Advanced Science	Biology IPC or Advanced Science Advanced Science Advanced Science	
Social Studies	World Geography or World History US History Government (.5) Economics (.5)	World Geography or World History US History Government (.5) Economics (.5)	Performance Acknowledgements
Foreign Language	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: Dual Credit Bilingualism & Biliteracy On AP exams or IB exams On PSAT, ACT-PLAN, SAT, or ACT On nationally or internationally recognized business or industry certification or license
Speech	Professional Communications (.5)	Professional Communications (.5)	
Fine Arts	1 Credit	1 Credit	
Physical Education	1 Credit	1 Credit	
Electives	4.5 Credits	6.5 Credits	
Total	22 Credits	26 Credits	
State of Texas Assessment of Academic Readiness (STAAR) Mastery	End of Course Exams	End of Course Exams • English I • English II • Algebra I • Biology • US History	

^{*}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.

GRADUATION REQUIREMENTS Class of 2025 and 2026

Students entering 9th grade in the 2021-2022 school year and thereafter.

	Foundation High School Program	Foundation Program w/ Endorsements	Distinguished Achievement
English Language Arts	English I English II English III Advanced English	English I English II English III Advanced English	Students must:
Mathematics	Algebra I Geometry Advanced Math	Algebra I Geometry Advanced Math Advanced Math	
Science	Biology IPC or Advanced Science Advanced Science	Biology IPC or Advanced Science Advanced Science Advanced Science	
Social Studies	World Geography or World History US History Government (.5) Economics (.5)	World Geography or World History US History Government (.5) Economics (.5)	Performance Acknowledgements
Foreign Language	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
Fine Arts	1 Credit	1 Credit	performance:
Physical Education	1 Credit	1 Credit	 Dual Credit Bilingualism & Biliteracy On AP exams or IB exams On PSAT, ACT-PLAN, SAT, or ACT On nationally or internationally recognized business or industry certification or license
Electives	5 Credits	7 Credits	
Total	22 Credits	26 Credits	
State of Texas Assessment of Academic Readiness (STAAR) Mastery	End of Course Exams	End of Course Exams	

^{*}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.

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 acknowledgement 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:
 - o a score of 3 or higher on a College Board AP exam for a language other than English; or
 - o a score of 4 or higher on an IB exam for a higher-level languages other than English course; or
 - o 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).

HIGH SCHOOL - PERFORMANCE ACKNOWLEDGEMENTS

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:

- 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
- 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

GRADUATION REQUIREMENTS AND ENDORSEMENT OPTIONS Arts & Humanities Endorsement

Period	9 th Grade	10 th Grade	11 th Grade	12 th Grade
1	English 1/ English 1 AE	English 2/ English 2 AE	English 3/ English 3 AP/OR	Advanced English/ English 4 AP/DC
2	Algebra 1/ Geometry/ Geometry AE	Geometry/ Geometry AE/ Advanced Math/ Advanced Math AE	Advanced Math/ Advanced Math AE/AP	Advanced Math/ Advanced Math AE/AP/OR
3	IPC/Biology/ Biology AE	Biology/IPC/ Advanced 2 nd Science/ Advanced Science AE	Advanced 3 rd Science/ Advanced 3 rd Science AE/AP	Advanced 4 th Science/ Advanced 4 th Science AE/AP/OR
4	World Geography/ World Geography AE Or Elective	World History/ World History AE 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. Speech will no longer be a graduation requirement beginning with the Class of 2025.

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 th Grade	10 th Grade	11 th Grade	12 th Grade
1	English 1/ English 1 AE	English 2/ English 2 AE	English 3/ English 3 AP/OR	Advanced English/ English 4 AP/DC
2	Algebra 1/ Geometry/ Geometry AE	Geometry/ Geometry AE/ Advanced Math/ Advanced Math AE	Advanced Math/ Advanced Math AE/AP	Advanced Math/ Advanced Math AE/AP/OR
3	IPC/Biology/ Biology AE	Biology/IPC/ Advanced 2 nd Science/ Advanced Science AE	Advanced 3 rd Science/ Advanced 3 rd Science AE/AP	Advanced 4 th Science/ Advanced 4 th Science AE/AP/OR
4	World Geography/ World Geography AE Or Elective	World History/ World History AE 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. Speech will no longer be a graduation requirement beginning with the Class of 2025.

Students must follow one of the following options:

- 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. Completion of course required to complete a TEA-designated program of study related to business and industry
- 3. Four English elective credits by selecting three levels in Advanced Journalism
- 4. A coherent sequence of four credits from 1 or 2 above

GRADUATION REQUIREMENTS AND ENDORSEMENT OPTIONS Multidisciplinary Endorsement

*Required electives have been placed in a recommended sequence, but may be moved to best meet the needs and interests of the students. Speech will no longer be a graduation requirement beginning with the Class of 2025.

Period	9 th Grade	10 th Grade	11 th Grade	12 th Grade
1	English 1/ English 1 AE	English 2/ English 2 AE	English 3/ English 3 AP/OR	Advanced English/ English 4 AP/DC
2	Algebra 1/ Geometry/ Geometry AE	Geometry/ Geometry AE/ Advanced Math/ Advanced Math AE	Advanced Math/ Advanced Math AE/AP	Advanced Math/ Advanced Math AE/AP/OR
3	IPC/Biology/ Biology AE	Biology/IPC/ Advanced 2 nd Science/ Advanced Science AE	Advanced 3 rd Science/ Advanced 3 rd Science AE/AP	Advanced 4 th Science/ Advanced 4 th Science AE/AP/OR
4	World Geography/ World Geography AE Or Elective	World History/ World History AE 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. 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

Graduation Requirements and Endorsement Options Public Services Endorsement

Period	9 th Grade	10 th Grade	11 th Grade	12 th Grade
1	English 1/ English 1 AE	English 2/ English 2 AE	English 3/ English 3 AP/OR	Advanced English/ English 4 AP/DC
2	Algebra 1/ Geometry/ Geometry AE	Geometry/ Geometry AE/ Advanced Math/ Advanced Math AE	Advanced Math/ Advanced Math AE/AP	Advanced Math/ Advanced Math AE/AP/OR
3	IPC/Biology/ Biology AE	Biology/IPC/ Advanced 2 nd Science/ Advanced Science AE	Advanced 3 rd Science/ Advanced 3 rd Science AE/AP	Advanced 4 th Science/ Advanced 4 th Science AE/AP/OR
4	World Geography/ World Geography AE Or Elective	World History/ World History AE 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. Speech will no longer be a graduation requirement beginning with the Class of 2025.

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

Graduation Requirements and Endorsement Options STEM Endorsement

Period	9 th Grade	10 th Grade	11 th Grade	12 th Grade
1	English 1/ English 1 AE	English 2/ English 2 AE	English 3/ English 3 AP/OR	Advanced English/ English 4 AP/DC
2	Algebra 1/ Geometry/ Geometry AE	Geometry/ Geometry AE/Algebra 2/ Algebra 2 AE	Algebra 2/ Algebra 2 AE Advanced Math/ Advanced Math AE/AP	Algebra 2/ Algebra 2 AE Advanced Math/ Advanced Math AE/AP/OR
3	Biology/ Biology AE	Chemistry/ Chemistry AE	Physics/Physics AE Advanced 3 rd Science AP	Advanced 4 th Science/ Advanced 4 th Science AP/OR
4	World Geography/ World Geography AE Or Elective	World History/ World History AE 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. Speech will no longer be a graduation requirement beginning with the Class of 2025.

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

- 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 M	lathematics Credit			
Mathematical Models with Applications	Algebra 2/Algebra 2 AE			
Financial Math				
Additional Advanced	Mathematics Credit			
Algebra 2/Algebra 2 AE	AP Calculus AB			
Statistics	Pre-Calculus/Pre-Calculus AE			
AP Statistics				
Advance Second Science Credit				
Integrated Physics and Chemistry (IPC)	Chemistry/Chemistry AE			
Advanced Third and I	Fourth Science Credit			
Chemistry/Chemistry AE	Advanced Animal Science			
Physics/Physics AE	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			

GRADING SYSTEM

Grading

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

A student in grades 9–12, or in a lower grade when a student is enrolled in a high school credit-bearing course, will earn credit for a course only if the final grade is 70 or above. For a two-semester (1 credit) course, the student's grades from both semesters will be averaged and credit will be awarded if the combined average is 70 or above. Should the student's combined average be less than 70, the student will be required to retake the semester in which he or she failed. The student will receive .5 credit for the semester that he or she passes.

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

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

HIGH SCHOOL - GRADING SYSTEM

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, AE, 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.

CLASS OF 2023, CLASS OF 2024, CLASS OF 2025, AND CLASS OF 2026 CLASS RANK CLASSIFICATION

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.

GPA WAIVER

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 <u>a</u> 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 an 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	Academic Excellence	Advanced Placement, Dual Credit, OnRamps
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

HIGH SCHOOL - CLASS RANK AND TOP TEN PERCENT

TOP 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 in 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 to be valedictorian or salutatorian.

BREAKING A TIE

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.]

ADVANCED COURSES AND ACADEMIC PROGRAMS

Ap And Ae Courses

Academic Excellence/Advanced Placement (AE/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. AE/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 AE/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 an AE/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 1st 6 weeks on teacher
 recommendation only, and the end of the first semester.

Entrance Guidelines for High School AE/AP Courses

The purpose of the AE/AP entrance and exit guidelines is to provide placement information to facilitate student success in academically challenging courses. AE 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 AE and AP courses. These guidelines are recommendations. Our policy is open enrollment in AE and AP Courses.

- 1. Prerequisite coursework is successfully completed.
- 2. Current or previous performance in related content area course:
 - semester average of 90 -100 in an academic course OR
 - semester average of 80 or above in an AE course.
- 3. For science placement only, current or previous performance in math course:
 - semester average of 90 -100 in an academic course OR
 - semester average of 80 or above in an AE 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 AE courses and for the benefit of students, entry into an AE 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 AE/AP Courses

Students petitioning to exit an AE or AP course may do so within the first three weeks of that course. Based on performance and/or teacher's recommendation, students may be recommended for removal to an equivalent academic-level course at the end of the first 6 weeks. Students who have failed an AE 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. 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.

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.

Students that fail a dual credit class will not be allowed to remain in dual credit for the 2nd semester.

Students must be enrolled in a minimum of one dual credit course in order to attend classes at Blinn College during the school day. Students are responsible for the cost of each class and the required books. Payments must be made directly to Blinn College.

The University of Texas OnRamps

OnRamps is a dual-enrollment program. Students have the ability to earn high school credit from Sealy High School and college credit from the University of Texas at Austin. Students will attend class with an SHS teacher daily. The high school teacher evaluates student's progress and in-class assignments, assigning grades in accordance with Sealy ISD policy. The SHS teacher will assign the high school grade that will appear on the SHS transcript. College exams will be assigned by a college professor at the University of Texas. The college professor will grade the college assignments and will issue the student's college grade that will appear on their UT transcript.

At the end of the semester, students must choose to accept or deny the college credit. Students should check with the colleges they plan to attend to determine if it is in their best interest to accept or deny the college credit.

OnRamps will be weighted with Dual Credit and Advanced Placement. The student enrollment fee for OnRamps will be communicated to students as it becomes available from the University.

At any time during the first two weeks of the first semester, a student may exit a dual enrollment course in which he/she is enrolled and move to an academic course of the same type, 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.

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

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

Academic Excellence Program

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 AE/AP/DC/OR 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 AE and AP/DC/OR courses in math, science, English language arts, social studies and foreign language that lead to AP exams or comparable dual credit or dual enrollment courses.

Privileges for eligible participants*:

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

*Participants must successfully complete a total of at least 8 credits in AE/AP/DC/OR classes, of which at least 2 credits must be Advanced Placement, Dual Credit, or OnRamps.

Gifted and Talented

Identified gifted and talented students are served in their areas of strength in the AE and AP classes in the four academic content areas. At the high school level, the gifted and talented students may also enroll in dual credit or dual enrollment classes. Teachers of the AE 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 (AE, AP, DC, or OR) 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 AE or 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, dual enrollment, participation in UIL academic activities, credits by examination, and early high school graduation.

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 satisfactory level in each of the following exams: English 1, English 2, Algebra 1, Biology, and US History. Students will take exams each year for the courses that they are currently enrolled in. Students that fail to meet the passing standard must retake the exam. The exams are given in the fall, spring, and summer of each year.

Please visit Texas Education Agencies <u>STAAR Performance Standards</u> page for the current STAAR EOC passing standards.

Texas Success Initiative

Students attending Texas public institutions of higher education must be in compliance with the <u>Texas Success Initiative</u> (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 - a minimum of 530 on the mathematics test and a minimum of 480 on the Evidence-Based Reading & Writing

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

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.

HIGH SCHOOL - TESTING INFORMATION

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.

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 the NCAA by the end of their Junior year. Interested students should visit the NCAA website at www.eligibilitycenter.org for further information and instructions.

This is a list of all courses that may be offered at Sealy High School. All courses may not be offered every year. 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.

Advanced courses previously referred to as Pre-AP will now be referred to as Academic Excellence or AE courses.

ENGLISH / LANGUAGE ARTS

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

9 th	10 th	11 th	12 th
English 1	English 2	English 3	English 4
English 1 AE	English 2 AE	AP English Language	AP English Literature
		and Composition or	and Composition or
		English 3 OnRamps	Dual Credit English

Depicts preferred course sequences

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.

1005 ENGLISH 1 AE

CREDIT: 1

GRADE PLACEMENT: 9

PREREQUISITE: AE Guidelines Recommended/Completion of Summer Assignments

STAAR EOC Course

English 1 AE 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.

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.

1006 ENGLISH 2 AE

CREDIT: 1

GRADE PLACEMENT: 10

PREREQUISITE: English 1 and AE Guidelines Recommended/Completion of Summer Assignments

STAAR EOC Course

In addition to regular course work in English 2, English 2 AE 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.

1003 ENGLISH 3

CREDIT: 1

GRADE PLACEMENT: 11 PREREQUISITE: English 2

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.

1007 ENGLISH 3 ONRAMPS

CREDIT: 1 PER YEAR / 3 HOURS COLLEGE CREDIT PER SEMESTER POSSIBLE

GRADE PLACEMENT: 11 PREREQUISITE: English 2

This dual enrollment course is offered through the University of Texas at Austin. Students will learn and practice well-established principles of rhetoric and argumentation in order to become more effective in analyzing and producing arguments. Students will conduct research, evaluate sources, analyze arguments, understand rhetorical situations, learn to draft and revise, give and receive feedback, formulate research questions, and identify underlying values of an argument. This course will allow students to improve their ability to analyze arguments and write effective arguments of their own, skills that will assist students in their academic, professional, personal, and civic lives. There is a fee associated with this course. Cost will be communicated to students as soon as the university releases the information.

1010 ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION

CREDIT: 1

GRADE PLACEMENT: 11

PREREQUISITE: English 2 and AP/AE Guidelines Recommended

The AP English Language and Composition course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read and analyze rhetorical elements and their effects in nonfiction texts—including images as forms of text— from a range of disciplines and historical periods. Students must complete a summer reading assignment to be determined each spring. Students may be required to purchase novels.

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.

1020 ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION

CREDIT: 1

GRADE PLACEMENT: 12

PREREQUISITE: English 3 or AP English Language and Composition and AP/AE Guidelines

Recommended/Completion of Summer Assignments

The AP English Literature and Composition course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. Students must complete a summer reading assignment to be determined each spring. Students may be required to purchase novels.

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 1st 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 4A
- 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 2nd 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

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 students through the Class of 2024. Beginning with the Class of 2025 students will not be required to take a speech credit for graduation.

^{*}Students are responsible for the course fees and the purchase of textbooks for each semester. Payments are made directly to Blinn College.

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 th	9 th	10 th	11 th	12 th
8 th Grade Math	Algebra 1	Geometry	Math Models	Algebra 2
8 th Grade Math	Algebra 1	Geometry	Algebra 2	Pre-Calculus or
				Statistics
8 th Grade Math	Algebra 1	Geometry/Geometry AE	Pre-Calculus AE	AP Calculus,
		Algebra 2/Algebra 2 AE		AP Statistics, and/or College Algebra
Algebra 1	Geometry AE	Algebra 2 AE	Pre-Calculus AE	AP Calculus,
				AP Statistics. and/or
				College Algebra
Algebra 1	Geometry AE	Algebra 2 AE	Pre-Calculus AE and	AP Calculus and/or
			AP Statistics	College Algebra

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 mathematical skills in 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.

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.

2007 GEOMETRY AE

CREDIT: 1

GRADE PLACEMENT: 9-12

PREREQUISITE: Algebra 1, AE Guidelines Recommended

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

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.

2005 ALGEBRA 2 AE

CREDIT: 1

GRADE PLACEMENT: 10-12

PREREQUISITE: Algebra 1, Geometry (taken concurrently or completed previously)/AE Guidelines

Recommended

Algebra 2 AE 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.

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.

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.

2010 PRE-CALCULUS AE

CREDIT: 1

GRADE PLACEMENT: 11 - 12

PREREQUISITE: Algebra 2 and Geometry /AE Guidelines Recommended

Pre-Calculus AE 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.

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.

2016 ADVANCED PLACEMENT STATISTICS

CREDIT: 1

GRADE PLACEMENT: 11-12

PREREQUISITE: Algebra 2, concurrent enrollment or previous completion of Pre-calculus, and AE/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.

2011 ADVANCED PLACEMENT CALCULUS AB

CREDIT: 1

GRADE PLACEMENT: 12

PREREQUISITE: Pre-Calculus and AE/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.

2012 & 2013 COLLEGE ALGEBRA ONRAMPS

CREDIT: 1 PER YEAR/ 3 HOURS COLLEGE CREDIT - MATH 1314

GRADE PLACEMENT: 12 PREREQUISITE: Algebra 2

This dual enrollment course is offered through the University of Texas at Austin. In this course, students deepen their critical thinking skills and develop their ability to persist through challenges as they explore function families: Linear, Absolute Value, Quadratic, Polynomial, Radical, Rational, Exponential, and Logarithmic. Students analyze data algebraically and with technology while developing their knowledge of properties of functions, matrices and systems of equations, and complex numbers. There is a fee associated with this course. Cost will be communicated to students as soon as the university releases the information.

SCIENCE

Required: 4 Credits

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

9 th	10 th	11 th	12 th
Integrated Physics and Chemistry (IPC)	Biology	Advanced 3rd Science (POT or Chem)	Advanced 4th Science
Biology	Environmental Systems	Integrated Physics and Chemistry (IPC)	Advanced 4th Science
Biology	Chemistry	Physics Principles of Technology	Advance 4th Science
Biology AE	Chemistry AE	Physics AE and/or AP Biology	AP Chemistry AP or OnRamps Physics AP Biology Dual Credit Geology Advanced 4th Science

Depicts preferred course sequences

4001 INTEGRATED PHYSICS AND CHEMISTRY

CREDIT: 1

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

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 the fourth or final science credit.

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 AE

CREDIT: 1

GRADE PLACEMENT: 9-10

PREREQUISITE: AE Guidelines Recommended

STAAR EOC Course

Biology AE 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.

4004 AP BIOLOGY

CREDIT: 1

GRADE PLACEMENT: 11 - 12

PREREQUISITE: Biology and Chemistry/AE/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.*

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.

4006 CHEMISTRY AE

CREDIT: 1

GRADE PLACEMENT: 10-11

PREREQUISITE: Algebra 1/Biology /AE Guidelines Recommended

Chemistry 1 AE 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 AE courses. The level of instruction/curriculum will focus on preparing the student for AP Chemistry.

4007 ADVANCED PLACEMENT CHEMISTRY

CREDIT: 1

GRADE PLACEMENT: 11 or 12

PREREQUISITE: Chemistry and Algebra 1/AE/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.

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.

4008 PHYSICS AE

CREDIT: 1

GRADE PLACEMENT: 11-12

PREREQUISITE: Algebra 1 and Geometry/AE Guideline Recommendations

The Physics AE 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: AE Physics and Pre-calculus, AE/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.

4012 PHYSICS ONRAMPS

CREDIT: 1 PER YEAR/ 4 HOURS COLLEGE CREDIT - PHYS 1301+ PHYS 1101

GRADE PLACEMENT: 12 PREREQUISITE: AE Physics

This dual enrollment course is offered through the University of Texas at Austin. This is an algebra-based (non-calculus) course in mechanics that fulfills a general physics requirement. Proficiency in algebra and geometry is assumed. General Physics Laboratory I, the course's lab component, engages students in both guided and open inquiry investigations of physical principles. It is designed to instill foundational scientific reasoning, data collection, and analytical skills. There is a fee associated with this course. Cost will be communicated to students as soon as the university releases the information.

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.

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.

9006 ADVANCED ANIMAL SCIENCE

CREDIT: 1 (4th SCIENCE CREDIT)

GRADE PLACEMENT: 12

PREREQUISITE: Prior enrollment in Livestock Production, Veterinary Medical Applications, or Equine

Science

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 are not limited to, beef cattle, swine, sheep, goats, and poultry.

9020 ADVANCED PLANT AND SOIL SCIENCE

CREDIT: 1 (4th SCIENCE CREDIT) GRADE PLACEMENT: 12

PREREQUISITE: Minimum of one credit from the courses in the Agriculture, Food and Natural Resources Career Cluster. Recommended: Horticulture Science, Floral Design, or Landscape Design and Management

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.

4021 AQUATIC SCIENCE

CREDIT: 1 (4th 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.

9356 ANATOMY AND PHYSIOLOGY OF HUMAN SYSTEMS

CREDIT: 1 (4th SCIENCE CREDIT) GRADE PLACEMENT: 11 - 12

PREREQUISITE: Biology required, Chemistry recommended

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.

4022 EARTH AND SPACE SCIENCE

CREDIT: 1 (4th SCIENCE CREDIT) GRADE PLACEMENT: 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.

9411 FOOD SCIENCE

CREDIT: 1 (4th 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.

4025 DUAL CREDIT PHYSICAL GEOLOGY (GEOL 1403)

CREDIT: 1 (4 HOURS COLLEGE CREDIT and 4th SCIENCE CREDIT)

GRADE PLACEMENT: 12

PREREQUISITE: Blinn entrance requirements, TSI assessment

This course is an 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.

*Students are responsible for the course fees and the purchase of textbooks for each semester. Payments are made directly to Blinn College.

SOCIAL STUDIES

Required: 2.5 Credits

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

9 th	10 th	11 th	12 th
World Geography	World History	US History	Government
World Geography Pre- AP	World History AE World History AP	AP US History Dual Credit US History	AP Government Dual Credit Government

Depicts preferred course sequences

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.

3002 WORLD GEOGRAPHY AE

CREDIT: 1

GRADE PLACEMENT: 9

PREREQUISITE: AP/AE 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.

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.

3004 WORLD HISTORY AE

CREDIT: 1

GRADE PLACEMENT: 10

PREREQUISITE: AP/AE 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

3006 ADVANCED PLACEMENT WORLD HISTORY

CREDIT: 1

GRADE PLACEMENT: 10-12

PREREQUISITE: AP/AE Guidelines Recommended

This course is comparable to a college level course. The course focuses on developing students' understanding of world history from approximately 1200 C.E. to the present. The course has students investigate the content of world history for significant events, individuals, developments, and processes during several historical periods. Students will develop and use the same thinking skills and methods employed by historians when they study the past. The course also provides themes that students explore throughout the course in order to make connections among historical developments in different times and places encompassing the 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. There will be a summer assignment for this course.

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 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.

3020 ADVANCED PLACEMENT UNITED STATES HISTORY

CREDIT: 1

GRADE PLACEMENT: 11

PREREQUISITE: AP/AE 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 assignment for this course.*

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

*Students are responsible for the course fees and the purchase of textbooks for each semester. Payments are made directly to Blinn College.

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.

3022 ADVANCED PLACEMENT UNITED STATES GOVERNMENT & POLITICS

CREDIT: .5

GRADE PLACEMENT: 12

PREREQUISITE: U. S. History and AP/AE 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.

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.

*Students are responsible for the course fees and the purchase of textbooks for each semester. Payments are made directly to Blinn College.

CREDIT: .5

GRADE PLACEMENT: 11-12
PREREQUISITE: 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.

3014 ADVANCED PLACEMENT PSYCHOLOGY

CREDIT: .5

GRADE PLACEMENT: 10-12

PREREQUISITE: AP/AE 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.

3015 ADVANCED PLACEMENT HUMAN GEOGRAPHY

CREDIT: .5

GRADE PLACEMENT: 10-12

PREREQUISITE: AP/AE 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. Students 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.

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

3026 SOCIOLOGY

CREDIT: .5

GRADE PLACEMENT: 11-12 PREREQUISITE: 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.

ECONOMICS

Required: .5 Credit Credits must include: Economics

9 th	10 th	11 th	12 th
			Economics
			AP MacroEconomics
			Dual Credit Economics

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.

3024 ADVANCED PLACEMENT MACROECONOMICS

CREDIT: .5

GRADE PLACEMENT: 12

PREREQUISITE: AP/AE 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.

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.

*Students are responsible for the course fees and the purchase of textbooks for each semester. Payments are made directly to Blinn College.

PHYSICAL EDUCATION / ATHLETICS

PHYSICAL EDUCATION

Girls	Boys
6002- Aerobic Activity	6008 - Team Sports
6004 - Foundations of Personal Fitness	6007 - Individual Sports
(Weightlifting/Conditioning)	6003 - Foundations of Personal Fitness
· · · · · · · · · · · · · · · · · · ·	(Weightlifting/Conditioning)

CREDIT: .5-1

GRADE PLACEMENT: 9 - 12 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. Note: students enrolled in band for two fall semesters will receive credit for their physical education requirement.

ATHLETICS

ATTILLTIOS		
Girls Athletics	Boys Athletics	
6009 - 1 st year	6011 - 1 st year	
6013 – 2 nd year	6015 - 2 nd year	
6017 - 3 rd Year	6018 - 3 rd year	
6019 – 4 th year	6020 - 4 th year	
•	·	
Girls Soccer	Boys Soccer	
6025 - 1 st year	6012 - 1 st year	
6027 – 2 nd year	6085 - 2 nd year	
6029 - 3 rd year	6087 - 3 rd year	
6030 - 4 th year	6088 - 4 th year	
•	·	
Tennis	Golf	
6021 - 1 st year	6053 – 1 st year	
6022 – 2 nd year	6054 - 2 nd year	
6023 - 3 rd Year	6055 - 3 rd Year	
6024 – 4 th year	6056 – 4 th year	
-	·	

CREDIT: .5-1

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.

6031 TRAINER

CREDIT: .5-1

GRADE PLACEMENT: 9 - 12 PREREQUISITE: None

All trainers, to be eligible to participate, must pass all subjects during the current six-week period. There is a three-week suspension from participation at athletic events with any failing report. NO PASS, NO PLAY. If a student trainer is not eligible for a semester, they may be subject to dismissal from the program. Trainers are expected to work at after school events throughout the years assigned by the trainer. Main responsibility is care and injury prevention of athletes.

4009 Health

CREDIT: .5

GRADE PLACEMENT: 9 - 12 PREREQUISITE: None

In health education, students acquire the health information and skills necessary to become healthy adults and learn about behaviors in which they should and should not participate. To achieve that goal, students will understand the following: students should first seek guidance in the area of health from their parents; personal behaviors can increase or reduce health risks throughout the lifespan; health is influenced by a variety of factors; students can recognize and utilize health information and products; and personal/interpersonal skills are needed to promote individual, family, and community health. In Health, students develop skills that will make them health-literate adults. Students gain a deeper understanding of the knowledge and behaviors they use to safeguard their health, particularly pertaining to health risks. Students are taught how to access accurate information that they can use to promote health for themselves and others. Students use problem-solving, research, goal-setting and communication skills to protect their health and that of the community.

4028 ADVANCED HEALTH

CREDIT: .5

GRADE PLACEMENT: 9 - 12 PREREQUISITE: Health

In health education, students acquire the health information and skills necessary to become healthy adults and learn about behaviors in which they should and should not participate. To achieve that goal, students will understand the following: students should first seek guidance in the area of health from their parents; personal behaviors can increase or reduce health risks throughout the lifespan; health is influenced by a variety of factors; students can recognize and utilize health information and products; and personal/interpersonal skills are needed to promote individual, family, and community health. In Advanced Health, students are provided opportunities for researching, discussing, and analyzing health issues. This higher level of involvement provides students with experiences designed to reinforce positive health behaviors. Students are given the opportunity to learn more about technology, how it affects health, and how to use electronic technology to gain health information. The emphasis in this course is less related to learning facts and more related to providing students with the skills necessary to access their own health information and services and become health literate.

LANGUAGES OTHER THAN ENGLISH

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.

1063 SPANISH 2

CREDIT: 1

GRADE PLACEMENT: 9 - 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.

1064 SPANISH 3 AE

CREDIT: 1

GRADE PLACEMENT: 10-12

PREREQUISITE: Spanish 2 and AE Guidelines Recommended

The Spanish 3 AE 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.

1072 ADVANCED PLACEMENT SPANISH LANGUAGE

CREDIT: 1

GRADE PLACEMENT: 11-12

PREREQUISITE: Spanish 3 AE and AE 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.

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, TEKS 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

1065 GERMAN 1

CREDIT: 1

GRADE PLACEMENT: 9 - 12 PREREQUISITE: None

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.

1066 GERMAN 2

CREDIT: 1

GRADE PLACEMENT: 9 - 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.

1067 GERMAN 3 AE

CREDIT: 1

GRADE PLACEMENT: 10-12

PREREQUISITE: German 2 and AE Guidelines Recommended

The German 3 AE 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.

1071 ADVANCED PLACEMENT GERMAN LANGUAGE

CREDIT: 1

GRADE PLACEMENT: 11-12

PREREQUISITE: German 3 AE and AE 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.

FINE ARTS

THEATRE

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.

5051 THEATRE ARTS 2 - Prereq Theatre Arts 1 **5053 THEATRE ARTS 3 -** Prereq Theatre Arts 2 **5055 THEATRE ARTS 4 -** Prereq Theatre 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.

5057 THEATRE PRODUCTION 2 - Prereq Theatre Arts 1 **5058 THEATRE PRODUCTION 3 -** Prereq Theatre Production 2 **5059 THEATRE PRODUCTION 4 -** Prereq Theatre Production 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.

5062 MUSICAL THEATRE

CREDIT: .5-1

GRADE PLACEMENT: 10 - 12

PREREQUISITE: Theatre Arts 1/Application

This course is for the student that is interested in Musical Theatre – both on stage and "behind the scenes". Students will have the opportunity to rehearse, perform, direct, and choreograph/stage various scenes and shows from the Broadway genre. All students are expected to both perform and direct/produce. Performances will be both in-class and "main-stage" productions. Performances are required for all students.

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.

5061 DUAL CREDIT INTRODUCTION TO THEATRE

CREDIT: 1 / 3 HOURS COLLEGE CREDIT - DRAM 1310

GRADE PLACEMENT: 11 & 12

PREREQUISITE: Blinn entrance requirements, TSI assessment completion with passing standards

This course is a survey of theatre including its history, dramatic works, stage techniques, production procedures, and relation to other art forms. Students will demonstrate competency through written assessments and prepared in-class performances. Attendance at one live performance per semester is required.

*Students are responsible for the course fees and the purchase of textbooks for each semester. Payments are made directly to Blinn College.

5065 DUAL CREDIT ACTING I

CREDIT: 1 / 3 HOURS COLLEGE CREDIT - DRAM 1351

GRADE PLACEMENT: 11 & 12

PREREQUISITE: Blinn entrance requirements, TSI assessment completion with passing standards

An introduction to the fundamental principles and tools of acting as used in auditions, rehearsals, and performances. This may include ensemble performing, character and script analysis, and basic theater terminology. This exploration will emphasize the development of the actor's instrument: voice, body and imagination. There will be one showcase performance in the Spring semester for this course. *Students are responsible for the course fees and the purchase of textbooks for each semester. Payments are made directly to Blinn College.

ART

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.

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.

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.

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.

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.

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. Students 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.

BAND

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. Two spring semesters fulfill the Fine Arts requirement for graduation. Following the first two years, courses count as an elective Fine Art credit.

5008 PERCUSSION/COLOR GUARD 1

5009 PERCUSSION/COLOR GUARD 2 - PREREQ PERCUSSION/COLOR GUARD 1 **5010 PERCUSSION/COLOR GUARD 3 -** PREREQ PERCUSSION/COLOR GUARD 2 **5011 PERCUSSION/COLOR GUARD 4 -** PREREQ PERCUSSION/COLOR GUARD 3

CREDIT: .5 – 1 per year GRADE PLACEMENT: 9 - 12

PREREQUISITE: Must be enrolled in Band 1-4

This section is specifically for students that are in the Percussion section or are part of the Color Guard. 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. Two spring semesters fulfill the Fine Arts requirement for graduation. Following the first two years, courses count as an elective Fine Art credit.

CHOIR

GIRLS

5044-1ST YEAR

5046-2ND YEAR - PREREQ CHOIR 1 and audition with High School Choir Director

5049-3RD YEAR - PREREQ CHOIR 2 and audition with High School Choir Director

5013-4TH YEAR - PREREQ CHOIR 3 and audition with High School Choir Director

BOYS

5045-1ST YEAR

5047-2ND YEAR - PREREQ CHOIR 1 and audition with High School Choir Director

5012-3RD YEAR - PREREQ CHOIR 2 and audition with High School Choir Director

5014-4TH 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.

MUSIC

5024 APPLIED MUSIC 1 5025 APPLIED MUSIC 2 - PREREQ APPLIED MUSIC 1

CREDIT: .5-1 per year GRADE PLACEMENT: 9-12

PREREQUISITE: Application / Audition

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

CTE

9017 PRINCIPLES AND ELEMENTS OF FLORAL DESIGN

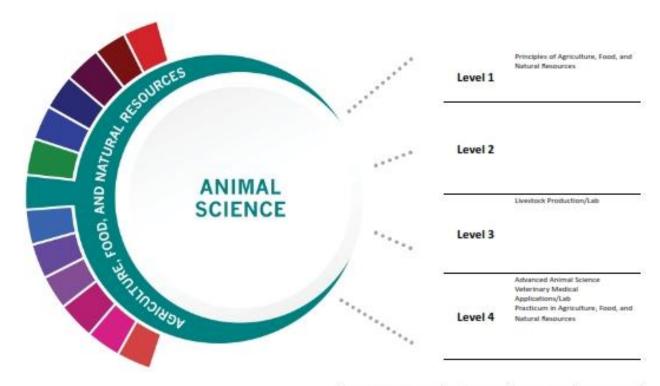
CREDIT: 1 FINE ARTS CREDIT GRADE PLACEMENT: 10-12 PREREQUISITE: None

Floral Design is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students will develop respect for the traditions and contributions of diverse cultures. Students will respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations.

Sealy ISD proudly offers a wide variety of Career and Technical Education courses. Career and technical education programs offer a sequence of courses that provides students with coherent and rigorous content. CTE content is aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in current or emerging professions.

Each of our CTE programs of study offer one or more Industry Based Certifications. A certification is a validation that an individual possesses certain skills, usually related to an occupation and measured against a set of accepted standards. An individual earns a certification by successfully passing a test or battery of tests. Earning an Industry Based Certification Is one of multiple ways students can prove they are College, Career, and Military Ready for A-F accountability.

Sealy ISD currently offers nine programs of study. Programs of Study go into effect for the 2020-2021 school year and will allow Texas to meet the federal program approval requirements within the Strengthening CTE for the 21st Century (Perkins V). Course sequences within the approved programs of study align with occupations that meet labor market criteria, projected job growth and annual job openings. Programs of Study align to endorsements and lead to postsecondary education and training opportunities. To complete a program of study, students must take 3 or more courses for 4 or more credits within an approved Program of Study.



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/	ASSOCIATE'S DEGREE	BACHELOR'S DEDREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Ucerned Veterinary Technician	Pet Groomer	Food Science and Technology	Animal Sciences	Cerretics
Feedyard Technician in Cattle Care and Handling	Weterinary Technician	Veterinary Studies	Agriculture	Weterinary Medicine
Certified Veterinary Assistant	Dreeder Breeder	Biotechnology Laboratory Technician	Biology	Biological and Physical Sciences
	30	Biology Technician	Zoology/ Animal Biology	Biological and Biomedical Sciences

Additional industry-based certification information is available on
the TEA CTE website. For more information on postsecondary
antique for this program of study stall TACTE are

C-market and a second	Median	Annual	85
Occupations	Wage	Openings	% Growth

Animal Breeden	\$39,133	28	9%
Animal Scientists	557,333	22	12%
Medical Scientists	\$63,898	435	27%
Veterinariana	\$95,496	294	24%
Zoologists and Wildlife Stologists	\$67,309	45	32%

	OPPORTUNITIES
Exploration Activities:	Work Based Learning Activities:
Textura F.F.A.	Agri-Science Fair 4H Volunteer at a local farm or veterinary office FFA Supervised Agriculture Experience (SAE)

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



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

Successful completion of the Animal Science program of study will fulfill requirements of a Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised - July 2020



BUSINESS & INDUSTRY ENDORSEMENT

AGRICULTURE, FOOD, AND NATURAL RESOURCES: ANIMAL SCIENCE

Level 1	Principles of Agriculture, Food, and Natural Resources
Level 2	
Level 3	Livestock Production
Level 4	Advanced Animal Science
	Veterinary Medical Applications

9001 PRINCIPLES OF AGRICULTURE, FOOD, AND NATURAL RESOURCES

CREDIT: 1

GRADE PLACEMENT: 9 (recommended to enroll in 9th grade as a foundation course)

PREREQUISITE: None

Principles of Agriculture, Food, and Natural Resources will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations.

9004 EQUINE SCIENCE

CREDIT: .5

GRADE PLACEMENT: 10-12 PREREQUISITE: None

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

9002 LIVESTOCK PRODUCTION

CREDIT: 1

GRADE PLACEMENT: 10-12 PREREQUISITE: None

In Livestock Production, students will acquire knowledge and skills related to livestock and the livestock production industry. Livestock Production may address topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry.

9003 SMALL ANIMAL MANAGEMENT

CREDIT: .5

GRADE PLACEMENT: 10-12 PREREQUISITE: None

In Small Animal Management, students will acquire knowledge and skills related to small animals and the small animal management industry. Small Animal Management may address topics related to small mammals such as dogs and cats, amphibians, reptiles, and birds.

9005 VETERINARY MEDICAL APPLICATIONS

CREDIT: 1

GRADE PLACEMENT: 11-12

PREREQUISITE: Equine Science, Small Animal Production, Livestock Production or teacher approval

Veterinary Medical Applications covers topics relating to veterinary practices, including practices for large and small animal species.

9006 ADVANCED ANIMAL SCIENCE

CREDIT: 4th SCIENCE CREDIT GRADE PLACEMENT: 12

PREREQUISITE: Biology and Chemistry or IPC and Prior enrollment in Livestock Production, Equine Science,

or Veterinary Medical Applications

Advanced Animal Science 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. Note: This course satisfies a science credit requirement for students on the Foundation High School Program.

902A AGRICULTURAL LABORATORY AND FIELD EXPERIENCE

CREDIT: 1 CREDIT

GRADE PLACEMENT: 11-12

PREREQUISITE: Teacher recommendation/approval

COREQUISITE: Any concurrent course in the AFNR cluster (except Principles)

Agricultural Laboratory and Field Experience is designed to provide students a laboratory and/or field experience opportunity. To prepare for careers in agriculture, food, and natural resources, students must acquire knowledge and skills that meet entry requirements and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer academic knowledge and technical skills in a variety of settings.

9024 PRACTICUM IN AGRICULTURE, FOOD, AND NATURAL RESOURCES

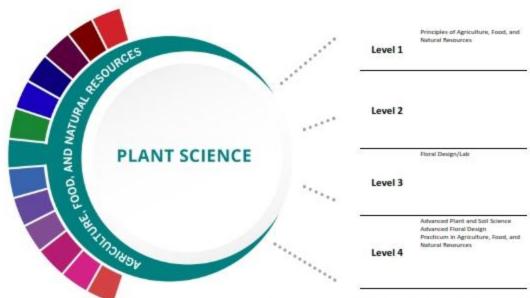
CREDIT: 2 CREDITS

GRADE PLACEMENT: 11-12

PREREQUISITE: A coherent sequence of career and technical education courses in the Agriculture, Food,

and Natural Resources Career Cluster and teacher approval required

Practicum in Agriculture, Food, and Natural Resources is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources Career Cluster.



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Landscape Irrigation Technician License	Pesticide Applicator	Applied Horticulture/ Horticulture Operations, General	Applied Horticulture/ Horticulture Operations, Owneral	Applied Horticulture/ Horticulture Operations, General
Commercial/ Noncommercial Pesticide Applicator	Certified Floral Designer	Ornamental Horticulture	Agronomy and Crop Science	Agronomy and Cros Science
Tees State Floral Association Level One Floral Certification	Accredited Member of AIFD	Agricultural Business and Management, Denaral	Agricultural Sustness and Management, General	Agricultural Business and Management, General
Texas State Floral Association Level Two Floral Certification	Landscape Industry Certified Technician	Turfand Turfgrass Management	Turfarel Turfgrees Management	Farm/Farm and Ranch Management

Additional industry-based certification information is available on

Occupations	Median Wage	Annual Openings	% Growth
Soil and Plant Scientists	\$54,662	116	21%
Tree Trimmers and Pruners	532,240	589	14%
Pesticide Handlers, Sprayers, and Application	536,733	198	22%
Landscaping Supervisors	\$44,408	807	19%
Biological Technicians	\$42,931	452	17%

ı	WORK BASED LEAR	NING AND EXPANDED
	LEARNING C	PPORTUNITIES
		Work Based Learning

Exploration Activities:	Work Based Learning Activities:
Texasi FSA	Work part-time at a florist; start or work for a local landscaping business FFA Supervised Agriculture Experience (SAE)

the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Plant Science program of study focuses on the science, research, and business of plants and other living organisms. It teaches students how to apply biology and life science to real-world life processes of plants and vegetation, either in laboratories or in the field.



sir.This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land onservationist, and florist. It also includes non-traditional agricultural occupations like wind energy, solar energy, and oil and gas

Successful completion of the Plant Science program of study will fulfill requirements of a Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised - July 2020



BUSINESS & INDUSTRY ENDORSEMENT

AGRICULTURE, FOOD, AND NATURAL RESOURCES: PLANT SCIENCE

Level 1	Principles of Agriculture, Food, and Natural Resources
Level 2	
Level 3	Floral Design
Level 4	Advanced Floral Design
	Advanced Plant and Soil Science

9001 PRINCIPLES OF AGRICULTURE, FOOD, AND NATURAL RESOURCES

CREDIT: 1

GRADE PLACEMENT: 9 (recommended to enroll in 9th grade as a foundation course)

PREREQUISITE: None

Principles of Agriculture, Food, and Natural Resources will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations.

9017 FLORAL DESIGN

CREDIT: 1 FINE ARTS CREDIT GRADE PLACEMENT: 10-12 PREREQUISITE: None

Floral Design is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students will develop respect for the traditions and contributions of diverse cultures. Students will respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations. Note: This course satisfies a fine arts credit requirement for students on the Foundation High School Program.

9038 ADVANCED FLORAL DESIGN

CREDIT: 1 FINE ARTS CREDIT GRADE PLACEMENT: 11-12 PREREQUISITE: Floral Design

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

9019 HORTICULTURE SCIENCE

CREDIT: 1

GRADE PLACEMENT: 10-12 PREREQUISITE: None

Horticultural Science is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production.

9018 LANDSCAPE DESIGN AND MANAGEMENT

CREDIT: .5

GRADE PLACEMENT: 10-12 PREREQUISITE: None

Landscape Design and Management is designed to develop an understanding of landscape design and management techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

9016 TURF GRASS MANAGEMENT

CREDIT: .5

GRADE PLACEMENT: 10-12 PREREQUISITE: None

Turf Grass Management is designed to develop an understanding of turf grass management techniques and practices.

9020 ADVANCED PLANT AND SOIL SCIENCE

CREDIT: 4th SCIENCE CREDIT GRADE PLACEMENT: 12

PREREQUISITE: Recommended Prerequisites: Biology, Integrated Physics and Chemistry, Chemistry, or Physics and a minimum of one credit from the courses in the Agriculture, Food, and Natural Resources Career Cluster.

Advanced 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. To prepare for careers in plant and soil science, students must attain academic skills and knowledge; acquire technical knowledge and skills related to plant and soil science and the workplace. Note: This course satisfies a science credit requirement for students on the Foundation High School Program.

902A AGRICULTURAL LABORATORY AND FIELD EXPERIENCE

CREDIT: 1 CREDIT

GRADE PLACEMENT: 11-12

PREREQUISITE: Teacher recommendation/approval

COREQUISITE: Any concurrent course in the AFNR cluster (except Principles)

Agricultural Laboratory and Field Experience is designed to provide students a laboratory and/or field experience opportunity. To prepare for careers in agriculture, food, and natural resources, students must acquire knowledge and skills that meet entry requirements and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer academic knowledge and technical skills in a variety of settings.

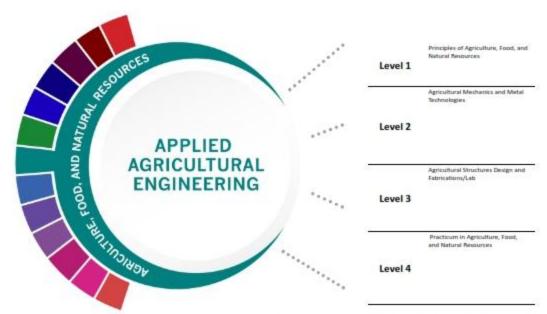
9024 PRACTICUM IN AGRICULTURE, FOOD, AND NATURAL RESOURCES

CREDIT: 2 CREDITS

GRADE PLACEMENT: 11-12

PREREQUISITE: A coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources Career Cluster and teacher approval required.

Practicum in Agriculture, Food, and Natural Resources is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources Career Cluster.



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
OSHA 50 Hour Deneral Industry	Certified Professional Agronomist	Equipment Maintenance Technology/ Technician	Agricultural Engineering	Agricultural Engineering
Feedpard Technician in Machinery, Operation, Repair and Maintenance	Certified Reliability Engineer	Agricultural Mechanization, General	Agricultural Mechanization, General	Agricultural Mechanization, Owneral
AWS SENSE Wolding Level 1	Certified Arrigidion Designer	Small Engine Mechanics and Repair Technology/ Technician		
AWS D1.1 or D9.1 Certification	Ruid Fower Mobile Hydraulic Mechanic	Welding Technology/ Welder		

Occupations	Median Wage	Annual Openings	% Growth
Outdoor Power Equipment and Other Small Engine Mechanics	\$52,406	306	16%
Welders	\$41,350	6,171	9%
Farm Equipment Mechanics and Service Technicians	530,913	304	17%
Mobile Heavy Equipment Mechanics	\$47,299	1,627	16%
Agricultural Engineers	\$64,792	. 0	13%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES		
Exploration Activities:	Work Based Learning Activities:	
Tour a farm products or machinery plant Texas FEA.	Earn a welding certification intern at a farm products or machinery plant FFA Supervised Agriculture Experience (SAE)	

Additional industry-based certification information is available on

the TEA CTE website. For more information on postsecondary

options for this program of study, visit TXCTE.org.

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



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

Successful completion of the Applied Agricultural Engineering program of study will fulfill requirements of a Business and Industry endorsement or STEM endorsement if the math and science requirements are met. Revised - July 2020



BUSINESS & INDUSTRY ENDORSEMENT

AGRICULTURE, FOOD, AND NATURAL RESOURCES: APPLIED AGRICULTURAL ENGINEERING

Level 1	Principles of Agriculture, Food, and Natural Resources
Level 2	Agricultural Mechanics and Metal Technology
Level 3	Agricultural Structures Design and Fabrications/Lab
Level 4	Practicum in Agriculture, Food, and Natural Resources

9001 PRINCIPLES OF AGRICULTURE, FOOD, AND NATURAL RESOURCES

CREDIT: 1

GRADE PLACEMENT: 9 (recommended to enroll in 9th grade as a foundation course)

PREREQUISITE: None

Principles of Agriculture, Food, and Natural Resources will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations.

9040 AGRICULTURAL MECHANICS AND METAL TECHNOLOGIES

CREDIT: 1 CREDIT

GRADE PLACEMENT: 10-12 PREREQUISITE: None

Agricultural Mechanics and Metal Technologies is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metalworking techniques. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. The course fee is \$25.00.

9042 AGRICULTURAL STRUCTURES DESIGN AND FABRICATION/LAB

CREDIT: 2 CREDITS

GRADE PLACEMENT: 11-12

PREREQUISITE: Agricultural Mechanics and Metal Technologies

In Agricultural Structures Design and Fabrication, students will explore career opportunities, entry requirements, and industry expectations. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication.

9043 AGRICULTURAL EQUIPMENT DESIGN AND FABRICATION/LAB

CREDIT: 2 CREDITS
GRADE PLACEMENT: 12

PREREQUISITE: Agricultural Structures Design and Fabrication

In Agricultural Equipment Design and Fabrication, students will acquire knowledge and skills related to the design and fabrication of agricultural equipment.

902A AGRICULTURAL LABORATORY AND FIELD EXPERIENCE

CREDIT: 1 CREDIT

GRADE PLACEMENT: 11-12

PREREQUISITE: Teacher recommendation/approval

COREQUISITE: Any concurrent course in the AFNR cluster (except Principles)

Agricultural Laboratory and Field Experience is designed to provide students a laboratory and/or field experience opportunity. To prepare for careers in agriculture, food, and natural resources, students must acquire knowledge and skills that meet entry requirements and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer academic knowledge and technical skills in a variety of settings.

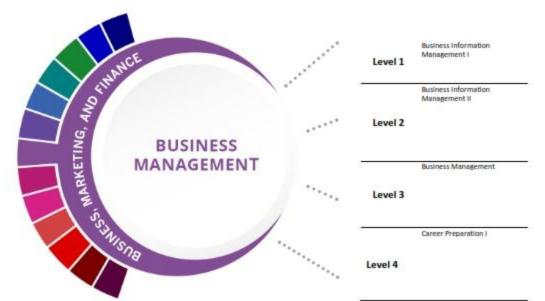
9024 PRACTICUM IN AGRICULTURE, FOOD, AND NATURAL RESOURCES

CREDIT: 2 CREDITS

GRADE PLACEMENT: 11-12

PREREQUISITE: A coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources Career Cluster and teacher approval required

Practicum in Agriculture, Food, and Natural Resources is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the Agriculture, Food, and Natural Resources Career Cluster.



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE / LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Microsoft Office Specialist or Expert-Excel	Certified Records Manager	Business Administration	Business Administration	Business Administration
Microsoft Office Specialist or Expert - Word	Certified Facility Manager	Eusiness/ Commerce	Business/ Commerce	Business Management
Google Cloud Certified Professional – O-Suite	Certified Constructed Contracts Manager	Public Administration	Public Administration	Public Administration
Certified Associate in Project Management	Teradata 14 flavics/ Certified Technical Specialist	Business Management	Management Science	Management Science

Additional industry-based certification information is available on the TEA CTE website.For more information on postsecondary options for this program of study, visit TXCTE.org.

Occupations	Median Wage	Annual Openings	% Growth
Administrative Service Managers	\$96,138	2,277	21%
Management Analysts	\$87,631	4,706	32%
General and Operations Managers	\$107,640	18,679	20%
Operations Research Analysts	\$78,083	1,128	38%
Supervisors of Administrative Support Workers	\$57,816	14,982	20%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:	Work Based Learning Activities:
Business Professional of America (SPA), Future Business Leaders of America (FBLA), and DECA	internship with local business or chamber of commerce

The Business Management program of study teaches CTE learners how to plan, direct, and coordinate the administrative services and operations of an organization. Through this program of study, students will learn the skills necessary to formulate policies, manage daily operations, and allocate the use of materials and human resources. This program of study will also introduce students to mathematical modeling tools and organizational evaluation methods



The Business, Marketing, and Finance Career Cluster focuses on careers in planning, organizing, directing, and evaluating businessfunctions essential to efficient and productive business operations.

Successful completion of the Business Management program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020



BUSINESS & INDUSTRY ENDORSEMENT

BUSINESS MANAGEMENT

Level 1	Business Information Management I
Level 2	Business Information Management II
Level 3	Business Management
Level 4	Career Preparation I

9152 BUSINESS INFORMATION MANAGEMENT I

CREDIT: 1

GRADE PLACEMENT: 9 - 12 PREREQUISITE: None

In Business Information Management I, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software. (Texas TEKS).

Skills the student will learn (just to name a few):

- Employability skills required in the business industry
- Touch system (typing), output (printing)
- Using information systems for business planning, analyzing documents, and filing systems
- Using operating systems to support business strategies and operations
- Analyze and operate software such as
 - Microsoft Word (word processing)
 - Microsoft Excel (spreadsheet program)
 - Microsoft PowerPoint (interactive presentation program)
 - Microsoft Access (database management program)
 - Microsoft Publisher (desktop publishing program).

Certifications: Microsoft Office Specialist - Word

Microsoft Office Specialist - Excel

9153 BUSINESS INFORMATION MANAGEMENT II

CREDIT: 1

GRADE PLACEMENT: 9-12

PREREQUISITE: Business Information Management I

In Business Information Management II, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce or postsecondary education. 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. (Texas TEKS).

Skills the student will learn (just to name a few):

- Demonstrate professional standards and employability skills
- Demonstrate project management process to conduct a business project
- Demonstrate business correspondences using advanced work processing features
- Create, evaluate and use business information using advanced skills in spreadsheets
- Develop and deliver formal and informal business presentations using advanced skills in presentation programs
- Design solutions to mathematical business problems using advanced spreadsheet technologies
- Design and implement databases

Certifications: Microsoft Office Expert - Word

Microsoft Office Expert - Excel

9159 BUSINESS MANAGEMENT

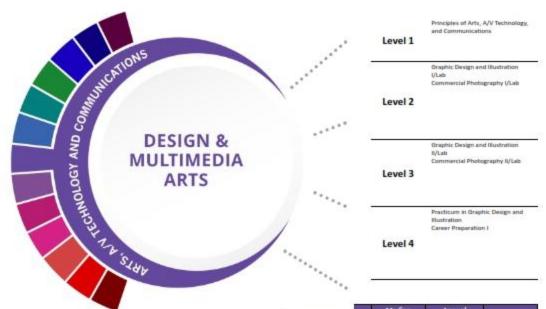
CREDIT: 1

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. (Texas TEKS).

Skills the student will learn (just to name a few):

- Demonstrate professional standards and employability skills
- Demonstrate an understanding of management concepts
- Recognize the importance of planning in an organization
- Recognize the importance of organization
- Explain the role of staffing in an organization
- Demonstrate qualities of leadership
- Understand the control process
- Self-development techniques and interpersonal skills to accomplish management objectives
- Demonstrate project management skills and workflow to minimize costs



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Adobe Certified Associate Certifications	Certified Digital Designer	Animation, Interactive Technology, Video Graphics and Special Effects	Animation, interactive flechnology, Video Graphics and Special Effects	Animation, interactive Technology, Video Graphics and Special Effects
Adobs Certified Expert Certifications	WOW Certified Web Designer Apprentice	Oraphic Design	Oraphic Design	Graphic Design
Apple Logic Pro X	Adobe Suite Certifications	Game and Interactive Media Design	Game and Interactive Media Design	Infermedia/ Multimedia

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this

Occupations	Wage	Openings	% Growth
Graphic Designers	544,824	1,433	15%
Multimedia Artists and Animators	\$67,392	185	21%

WORK BASED LEARNING AND EXPANDED **LEARNING OPPORTUNITIES**

Exploration Activities:	Work Based Learning Activities:	
Join a website development or coding club. Participate in SkillsUSA or TSA.	Intern with a multimedia or animation studio. Obtain a certificate or certification in graphic design.	

program of study, visit TXCTE.org.

program of study whit twi the land.

The Design and Multimedia Arts program of study explores the occupations and educational opportunities associated with designing or creating graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. This program of study may also include exploration into designing clothing and accessories, and creating special effects, animation, or other visual images using film, video, computers, or other electronic tools and media, for use in computer games, movies, music videos, and commercials.



The Arts, A/V Technology and Communications (AAVTC) Career Clusterfocuses on careers in designing, producing, exhibiting, performing, writing, andpublishing multimedia content including visual and performing arts and design, journalism, and entertainment services. Careers in the AAVTC career clusterrequire a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral andwritten communication.

Successful completion of the Design & Multimedia Arts program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020



BUSINESS & INDUSTRY ENDORSEMENT

ARTS, A/V TECHNOLOGY & COMMUNICATIONS: DESIGN & MULTIMEDIA ARTS

Level 1	Principles of Arts , A/V Technology, & Communication
Level 2	Graphic Design and Illustration I
Level 3	Graphic Design and Illustration II
Level 4	Practicum in Graphic Design and Illustration
	Career Preparation I

9101 PRINCIPLES OF ARTS AND AUDIO/VIDEO TECHNOLOGY AND COMMUNICATIONS

CREDIT: 1

GRADE PLACEMENT: 9 - 11 PREREQUISITE: None

The goal of this course is that the student understands arts, audio/video technology, and communications systems. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

9119 GRAPHIC DESIGN AND ILLUSTRATION I

CREDIT: 1

GRADE PLACEMENT: 10-12

PREREQUISITE: Principles of Arts, Audio/Video Technology, and Communications

Within this context, in addition to developing 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 industry with a focus on fundamental elements and principles of visual art and design.

9120 GRAPHIC DESIGN AND ILLUSTRATION II

CREDIT: 1

GRADE PLACEMENT: 11-12

PREREQUISITE: Graphic Design and Illustration I

Within this context, students will be expected to develop an advanced understanding of the industry with a focus on mastery of content knowledge and skills.

9121 PRACTICUM IN GRAPHIC DESIGN AND ILLUSTRATION

CREDIT: 2

GRADE PLACEMENT: 10-12

PREREQUISITE: Graphic Design and Illustration II and teacher approval

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 a technical

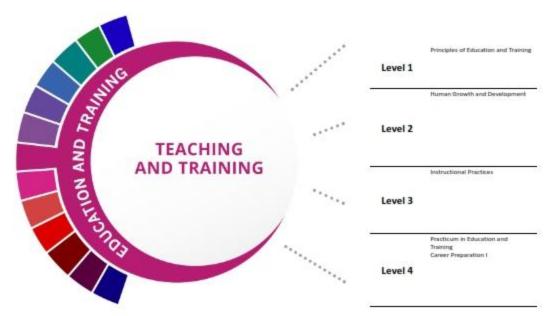
understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

9125 COMMERCIAL PHOTOGRAPHY I (Yearbook)

CREDIT: 1

GRADE PLACEMENT: 9-12 PREREQUISITE: Recommended

In addition to developing 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 commercial photography industry with a focus on creating quality photographs.



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Educational Aide I	Texas Educator Cartification Program	Teacher Education	Bilingual and Multilingual Education	Instruction and Learning
	Educational Instructional Technology	Education, General (or specific subject area)	Education, General (or specific subject area)	Educational Leadership and Administration, General
	Counselor, Professional	Special Education	Special Education	Special Education
	Athletic Trainer	Health and Physical Education/ Fitness	Health and Physical Education/ Filmess	Social and Philosophical Foundations of Education

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

	Median	Annual	
Occupations	Wage	Openings	% Growth

Adult Basic and Secondary Education and Literacy Teachers and Instructors	\$48,009	862	17%
Middle School Teachers, Except Special and Career/ Technical Education	\$54,510	5,407	15%
Career and Technical Education Teachers, Secondary School	\$56,360	719	914
Special Education Teachers, Secondary School	\$56,720	980	18%

The state of the s	RNING AND EXPANDED
Exploration Activities:	Work Based Learning Activities:
Texas Association of Future Educators, or Family, Career and Community	Teach a community education class; intern as a teaching assistant or tutor;

The Teaching and Training program of study prepares CTE learners for careers related to teaching, instruction, and creation of instructional and enrichment materials. The program of study introduces CTE learners to a wide variety of student groups and their corresponding needs. It familiarizes them with the processes for developing curriculum, coordinating educational content, and coaching groups and individuals.



The Education and Training Career Cluster focuses on planning, managing, and providing education and training services andrelated learning support services. All parts of courses are designed to introduce learners to the various careers available within theEducation and Training career cluster.

Successful completion of the Teaching and Training program of study will fulfill requirements of the Public Service Endorsement. Revised - July 2020



BUSINESS & INDUSTRY ENDORSEMENT

EDUCATION AND TRAINING: TEACHING AND TRAINING

Level 1	Principles of Education and Training
Level 2	Human Growth and Development
Level 3	Instructional Practices
Level 4	Practicum in Education and Training
	Career Preparation I

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 as well as educational and career information to analyze various 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.

9202 HUMAN GROWTH AND DEVELOPMENT

CREDIT: 1

GRADE PLACEMENT: 10-12

PREREQUISITE: Principles of Education and Training Recommended

Human Growth and Development is an examination of human development across the lifespan with emphasis on research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones. The course covers material that is generally taught in a postsecondary, one-semester introductory course in developmental psychology or human development.

9204 PRACTICUM IN EDUCATION AND TRAINING

CREDIT: 2

GRADE PLACEMENT: 12

PREREQUISITE: Instructional Practices

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, middle childhood, and adolescence 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.

9205 IN EDUCATION AND TRAINING/EXTENDED PRACTICUM IN EDUCATION AND TRAINING

CREDIT: 3

GRADE PLACEMENT: 12

COREQUISITE: Practicum in Education and Training

PREREQUISITE: Instructional Practices

Extended 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, middle childhood, and adolescence 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.

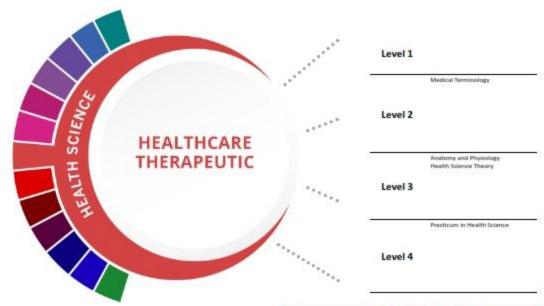
9203 INSTRUCTIONAL PRACTICES IN EDUCATION AND TRAINING

CREDIT: 2

GRADE PLACEMENT: 11-12

PREREQUISITE: Recommended Principles of Education and Training and Human Growth and Development

Instructional Practices is a field-based (practicum) 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, middle childhood, and adolescence 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 environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Registered Dental Assistant	Dental Assistant	Dental Hygienist	Dental Hygienist	Dentist
Cartified Patient Care Technician	Surgical Technologist	Medical/ Clinical Assistant		Physician Assistant
Certified Nurse Aide/Assistant	Medical Assistant			Family and General Practitioners
Pharmacy Technician	Pharmacy Aides		8	Pharmacist

Additional industry-based certification information is available on	Ī
the TEA CTE website. For more information on postsecondary	

Occupations	Median Wage	Annual Openings	% Growth
Medical Assistants	\$29,508	8,882	30%
Surgical Technologists	\$45,032	1,150	20%
Dental Hygienists	575,507	1,353	38%
Physicians and Surgeons	\$213,071	1,151	30%
Dental Assistants	\$34,840	4.422	31%

LEARNING OPPORTUNITIES		
Exploration Activities:	Work Based Learning Activities:	
SkillsUSA Health Occupation Students of America (HOSA)	Volunteer at a community wellness center, hospital, assisted living, or nursing home.	

WORK BASED LEARNING AND EXPANDED

The Healthcare Therapeutic program of study introduces students to occupations and educational opportunities related to diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team. This program of study also includes an introduction to the opportunities associated with providing treatment and counsel to patients as well as rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.



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

Successful completion of the Healthcare Therapeutic program of study will fulfill requirements of a Public Service endorsement or STEM endorsement if the math and science requirements are met. Revised - July 2020



PUBLIC SERVICES ENDORSEMENT

HEALTH SCIENCE: HEALTHCARE THERAPEUTIC

Level 1	
Level 2	Medical Terminology
Level 3	Anatomy and Physiology
	Health Science Theory
Level 4	Practicum in Health Science

9351 PRINCIPLES OF HEALTH SCIENCE

CREDIT: 1

GRADE PLACEMENT: 9-10 PREREQUISITE: None

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

9352 MEDICAL TERMINOLOGY

CREDIT: 1

GRADE PLACEMENT: 10-12

PREREQUISITE: Principles of Health Science

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

9353 HEALTH SCIENCE THEORY

CREDIT: 1

GRADE PLACEMENT: 10-12

PREREQUISITE: Biology, Principles of Health Science required, and Medical Terminology recommended

The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development.

9354 PRACTICUM IN HEALTH SCIENCE - PHARMACY TECH

CREDIT: 2

GRADE PLACEMENT: 11-12

PREREQUISITE: Principles of Health Science and Health Science Theory or Medical Terminology

The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students will complete the Pharmacy Tech curriculum and test for Pharmacy Technician certification at the end of the year. Students are required to pay the \$80.00 national exam fee.

9355 PRACTICUM IN HEALTH SCIENCE 2 - CMA

CREDIT: 2

GRADE PLACEMENT: 12

PREREQUISITE: Principles of Health Science and Health Science Theory or Medical Terminology

The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education and employment. The CMA (Certified Medical Assistant) program is completed in two semesters through Blinn College Students are prepared and state-tested to become certified medical assistants. Students are required to pay for necessary immunizations, a drug screen, background testing and course supplies.

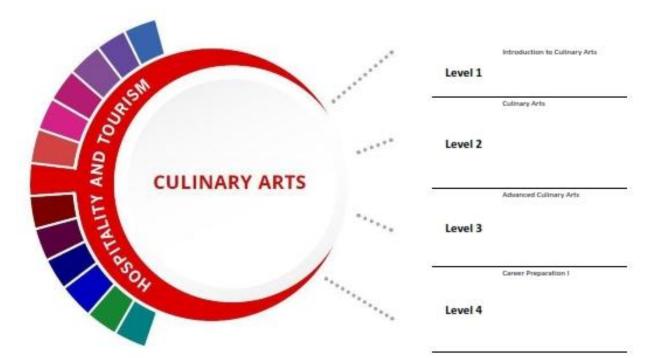
9356 ANATOMY AND PHYSIOLOGY

CREDIT: 1 (4th SCIENCE CREDIT) GRADE PLACEMENT: 11-12

PREREQUISITE: Biology and a second science credit, Chemistry recommended

The Anatomy and Physiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

Note: This course satisfies a science credit requirement for students on the Foundation High School Program.



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Certified Fundamentals Cook	Certified Chef	Notel and Restaurent Management	Hotel and Sestaurant Management	Hotel and Restaurant Management
Certified Fundamentals Pastry Cook	Foodservice Management Professional	flextaurent Culinary and Culturing Management	Food Service Systems Administration/ Management	Food Service Systems Administration/ Management
ServSafe Manager	Comprehensive Food Safety	Respitality Administration/ Management, Deneral	Hospitality Administration/ Management, General	Hospitality Administration/ Management, Deneral
ManageFirst Professional	Certified Food and Severage Executive	Culinary Arts/ Chef Training	Cultrary Science and Food Service Management	Business Administration Management, General

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

Occupations	Median Wage	Annual Openings	% Growth
Food and Beverage Managers	\$55,619	1,561	28%
Chef and Head Cooks	\$43,285	1,366	25%
Food Science Technicisms	534,382	236	11%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:	Work Based Learning Activities:	
Family, Career, and Community Leaders	Flan a catering event or work for a	
of America (FCCLA), Skills USA, American	catering company; participate in a	
Culinary Federation, Texas Restaurant	cooking course; work in a restaurant;	
Association	cook at home	

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



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

Successful completion of the Culinary Arts program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020



BUSINESS & INDUSTRY ENDORSEMENT

HOSPITALITY AND TOURISM: CULINARY ARTS

Level 1	Introduction to Culinary Arts
Level 2	Culinary Arts
Level 3	Advanced Culinary Arts
Level 4	Career Preparation I

9401 PRINCIPLES OF HOSPITALITY AND TOURISM

Credit: 1

Grade Placement: 9-12 Prerequisite: None

Principles of Hospitality and Tourism introduces students to an industry that encompasses lodging, travel and tourism, recreation, amusements, attractions, and food/beverage operations. Students learn knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success in that industry.

9403 INTRODUCTION TO CULINARY ARTS

Credit: 1

Grade Placement: 10-12 Prerequisite: None

Introduction to Culinary Arts will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This is an entry level course for students interested in pursuing a career in the food service industry. This course is offered as a classroom and laboratory-based course.

9405 CULINARY ARTS

CREDIT: 2

GRADE PLACEMENT: 11-12

PREREQUISITE: Introduction to Culinary Arts and students must complete the application process and be accepted due to limited class size.

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification or other appropriate industry certifications. This course is offered as a laboratory-based course.

9411 FOOD SCIENCE

CREDIT: 1 (4th SCIENCE CREDIT) GRADE PLACEMENT: 12

PREREQUISITE: 3 Science Credits, including Chemistry and Biology recommended

In Food Science students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Food Science is the study of the nature of foods, the causes of deterioration in food products, the principles underlying food processing, and the improvement of foods for the consuming public. Note: This course satisfies a science credit requirement for students on the Foundation High School Program. *Course Fee \$25.00*.

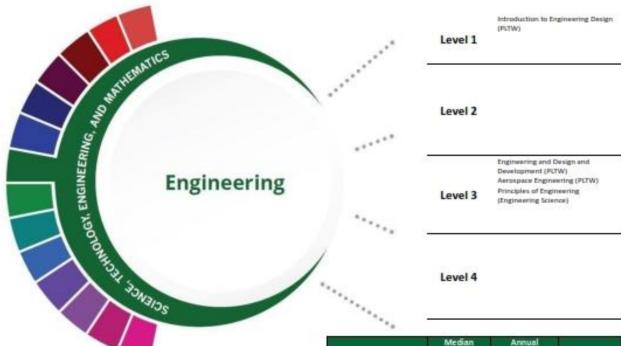
9406 ADVANCED CULINARY ARTS

CREDIT: 2

GRADE PLACEMENT: 12

PREREQUISITE: Culinary Arts and students must complete the application process and be accepted due to limited class size.

Advanced Culinary Arts will extend content and enhance skills introduced in Culinary Arts by in-depth instruction of industry-driven standards to prepare students for success in higher education, certifications, and/or immediate employment.



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ UCENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEDREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Autodesk Certified Professional or User (ACU)- Inventor	Engineer, Professional	Electrical and Electronics Engineering	Electrical and Electronics Engineering	Electrical and Electronics Engineering
Certified SolidWorks Associate (CSWA)	Fluid Power Systems Designer	Drafting and Design Technology/ Sectorician, General	CAD/CADD Drafting and/or Design Sechnology/ Sechnology/	Mechanical Engineering
Certified Engineering Technician-Audio Systems	Certified Biomedical Auditor	Engineering Technology	Bioengineering and Biomedical Engineering	Bioengineering and Bornedical Engineering
	Certified Cost Estimator/ Analyst		Construction Engineering Technology/ Technician	

Occupations	Median Wage	Annual Openings	% Growth
Aerospace Engineers	\$120,843	481	9%
Industrial Engineers	\$97,074	1,263	10%
Mechanical Engineers	\$91,107	1,555	11%
Chemical Engineers	\$112,819	474	9%
Electrical Engineers	\$98,405	1,137	10%

LEARNING OF	PPORTUNITIES
Exploration Activities:	Work Based Learning Activities:
Participate in competitions like Skills USA	Engineering internahip Job shadow a machinist

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary

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



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

Successful completion of the Engineering program of study will fulfill requirements of the Business and Industry or STEMendorsement if the math and science requirements are met. Revised - July 2020



STEM ENDORSEMENT

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS: ENGINEERING

Level 1	Introduction to Engineering Design
Level 2	
Level 3	Principles of Engineering (Engineering Science) Aerospace Engineering Engineering and Design and Development
Level 4	

9719 INTRO TO ENGINEERING DESIGN - IED

CREDIT: 1

GRADE PLACEMENT: 9-12

PREREQUISITE: Students must complete the application process and be accepted due to limited class size.

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 AE

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 provide knowledge and skills necessary for the third and fourth year PLTW classes. This course counts as a science for the STEM endorsement.

9722 AEROSPACE ENGINEERING

CREDIT: 1

GRADE PLACEMENT: 11

PREREQUISITE: Principles of Engineering

This course propels students' learning in the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles. This course will count as an Advanced Placement course with weighted credit.

9721 ENGINEERING DESIGN AND DEVELOPMENT

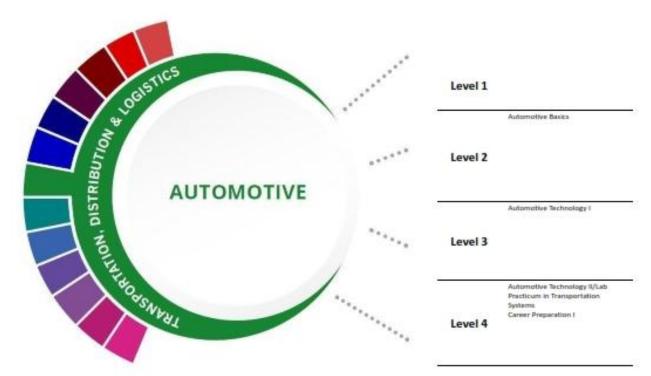
CREDIT: 1 RECOMMENDED SCIENCE CREDIT

GRADE PLACEMENT: 12

PREREQUISITE: Aerospace Engineering or teacher approval to be taken concurrently with Aerospace

Engineering

The knowledge and skills students acquire throughout PLTW Engineering come together in Engineering Design and Development as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing Engineering Design and Development ready to take on any post-secondary program or career. This course will count as an Advanced Placement course with weighted credit.



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Automotive Service Escellence (ASE) Entry Level	Master Collision Repair and Safinishing Technician	Autobody/ Collision and Repair Technology/ Technician	0.000	Mechanical Engineering
Automotive Service Excellence (ASE) Professional Level	Automobile Technician: saciosa systems and parts	Medium/Heavy Vehicle and Truck Technology/ Technician	11	
- 10	Engine Machinist Technician	Mechanical Engineering/ Mechanical Technology/ Technician	Mechanical Engineering/ Mechanical Technology/ Technician	
	Collision Repair and Refinish			

Occupations	Median Wage	Annual Openings	% Growth
Automotive Body and Related Repairers	\$40,144	1,458	25%
Automotive Service Technician and Mechanics	\$38,459	5,557	18%

	RNING AND EXPANDED OPPORTUNITIES
Exploration Activities:	Work Based Learning Activities:
SkillsUSA competition Automotive Service Association	Work at a local automotive repair or body shop.

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Automotive program of study teaches CTE learners how to repair and refinish automobiles and service various types of vehicles. CTE learners may learn to collect payment for services or supplies and perform typical vehicle maintenance procedures such as lubrication, oil changes, installation of antifreeze, or replacement of accessories like wiper blades or tires.



The Transportation, Distribution, and Logistics Career Clusterfocuses on careers in planning, management, andmovement of people, materials, and goods by road, pipeline, air, rail, and water. It also includes related professionalsupport services such as transportation infrastructure planning and management, logistics services, mobile equipmentand facility maintenance.

Successful completion of the Automotive program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020



BUSINESS & INDUSTRY ENDORSEMENT

TRANSPORTATION, DISTRIBUTION, AND LOGISTICS: AUTOMOTIVE

Level 1		
Level 2	Automotive Basics	
Level 3	Automotive Technology I	
Level 4	Automotive Technology II	
	Practicum in Transportation Systems	
	Career Preparation I	

9763 AUTOMOTIVE BASICS

CREDIT: 1

GRADE PLACEMENT: 9-12 PREREOUISITE: None

Automotive Basics includes knowledge of the basic automotive systems and the theory and principles of the components that make up each system and how to service these systems. Automotive Basics includes applicable safety and environmental rules and regulations. In Automotive Basics, students will gain knowledge and skills in the repair, maintenance, and servicing 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. The focus of this course is to teach safety, tool identification, proper tool use, and employability. This course has a fee of \$10.

9755 AUTOMOTIVE TECHNOLOGY I: MAINTENANCE AND LIGHT REPAIR

CREDIT: 2

GRADE PLACEMENT: 10-12

PREREQUISITE: Automotive Basics

Automotive Technology I: Maintenance and Light Repair includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. This course includes applicable safety and environmental rules and regulations. In Automotive Technology I: Maintenance and Light Repair, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability. This course has a fee of \$10.

9756 AUTOMOTIVE TECHNOLOGY II: AUTOMOTIVE SERVICE

CREDIT: 2

GRADE PLACEMENT: 11-12 PREREQUISITE: Automotive I

Automotive Technology II: Automotive Service includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. Automotive Technology II: Automotive Service includes applicable safety and environmental rules and regulations. In this course, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability. This course has a fee of \$10.

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 a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study, or laboratories. This course has a fee of \$10.

CAREER DEVELOPMENT

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.

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.

9807 EXTENDED CAREER PREPARATION I 9808 EXTENDED CAREER PREPARATION II

CREDIT: 3

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.

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.

9803 PROJECT BASED RESEARCH

CREDIT: 1

GRADE PLACEMENT: 11-12 PREREQUISITE: None

Project-Based Research is a course for students to research a real-world problem. Students are matched with a mentor from the business or professional community to develop an original project on a topic related to career interests. Students use scientific methods of investigation to conduct in-depth research, compile findings, and present their findings to an audience that includes experts in the field. To attain academic success, students must have opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

CTE COURSES

9654 SPORTS AND ENTERTAINMENT MARKETING

CREDIT: .5

GRADE PLACEMENT: 10-12 PREREQUISITE: None

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.

9659 SOCIAL MEDIA MARKETING

CREDIT: .5

GRADE PLACEMENT: 10-12 PREREQUISITE: None

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.

6722 COLLEGE AND CAREER PREP

CREDIT: .5 - 1 credit GRADE PLACEMENT: 11-12 PREREQUISITE: None

College and Career Prep allows college-bound juniors and seniors 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.

9458 LIFETIME NUTRITION AND WELLNESS

CREDIT: 1

GRADE PLACEMENT: 10-12 PREREQUISITE: None

This laboratory course allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness. Safety and sanitation in food preparation are addressed.

9114 FASHION DESIGN

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 \$25.00.

9250 MONEY MATTERS

CREDIT: 1

GRADE PLACEMENT: 9-12 PREREQUISITE: None

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

9051 INTERIOR DESIGN

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.

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.

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.

9007 PROFESSIONAL STANDARDS IN AGRIBUSINESS

Credit: .5

Grade Placement: 10–12 Prerequisite: None.

Professional Standards in Agribusiness primarily focuses on leadership, communication, employer-employee relations, and problem solving as they relate to agribusiness.

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.

9037 AGRICULTURAL LEADERSHIP, RESEARCH, AND COMMUNICATIONS

CREDIT: 1 CREDIT

GRADE PLACEMENT: 10-12

PREREQUISITE: Teacher recommendation/approval

Agricultural Leadership, Research and Communications will focus on challenging Agriculture, Food, and Natural Resources (AFNR) students to use higher level thinking skills, develop leadership abilities, employ standard research principles, and communicate agricultural positions effectively with all stakeholders.

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

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.

9103 ANIMATION II

CREDIT: 1

GRADE PLACEMENT: 11-12 PREREQUISITE: Animation I

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.

9509 WEB DESIGN

CREDIT: 1

GRADE PLACEMENT: 10-12 PREREQUISITE: None

In Web Design students will acquire knowledge of web design and technological operations and concepts that support creativity, innovation, collaboration, information fluency, critical thinking and decision making. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.

9455 CHILD DEVELOPMENT

CREDIT: 1

GRADE PLACEMENT: 10-12 PREREQUISITE: None

Child Development is a technical laboratory course that addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to care and education of children.

9611 INTRODUCTION TO WELDING

CREDIT: 1

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.

9603 WELDING I

CREDIT: 2

GRADE PLACEMENT: 10-12

PREREQUISITE: Recommended that students complete Introduction to Welding

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

GRADE PLACEMENT: 11-12

PREREQUISITE: Recommended that students complete Welding I

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.

9607 PRACTICUM IN MANUFACTURING (WELDING)

CREDIT: 2

GRADE PLACEMENT: 12

PREREQUISITE: Recommended that students complete Welding II

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

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.

9757 BASIC COLLISION REPAIR AND REFINISHING

CREDIT: 1

GRADE PLACEMENT: 9-12 PREREQUISITE: None

Basic Collision Repair and Refinishing includes knowledge of the processes, technologies, and materials used in the reconstruction of vehicles. This course is designed to teach the concepts and theory of systems related to automotive collision repair and refinishing.

6624 Making Connections 1 6625 Making Connections 2 6626 Making Connections 3 6627 Making Connections 4

CREDIT: .5

GRADE PLACEMENT: 9-12 PREREQUISITE: None

The Making Connections assists students with developing and generalizing appropriate and beneficial social skills and in turn increases that student's postsecondary outcome.

6628 METHODOLOGY OF OF ACADEMIC AND PERSONAL SUCCESS

CREDIT: .5

GRADE PLACEMENT: 9-12 PREREQUISITE: None

The course focuses on the skills and strategies necessary for students to make a successful transition into high school and an academic career. Students will explore the options available in high school, higher education, and the professional world in order to establish both immediate and long-range personal goals. After identifying their individual learning styles and abilities, students will build on these abilities by developing critical time-management, organization and study skills. The course focuses on self-understanding, decision-making, resiliency, attitude, character education, and leadership to help students maximize personal achievement. Students will develop the specific strategies necessary to achieve their personal and professional goals. The course emphasizes proactive problem-solving, self-determination, and independent thinking and learning skills. In addition, students will explore and experience collaboration as a tool for creative problem solving. As part of goal setting and leadership activities, students may complete an outside community service learning experience in addition to class assignments.

6629 STUDENT TO INDUSTRY CONNECTION

CREDIT: .5

GRADE PLACEMENT: 9-12 PREREQUISITE: None

The Student to Industry Connection course provides students with the opportunity to develop professional relationships with experienced individuals within the student's chosen program of study and to demonstrate necessary skills for an online virtual workplace. Students will learn acceptable virtual etiquette and professionalism for a teleworking environment. The central focus of this course is to prepare students to be 21st century career ready through interaction with a seasoned workplace mentor. The course may include a work-based learning component. Instruction will support students with marketable skills attainment. The course is recommended for students 16 years of age or older.

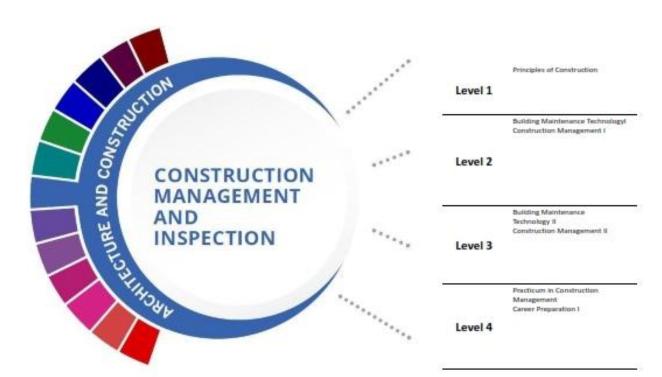
6630 GENERAL EMPLOYABILITY SKILLS CAREER DEVELOPMENT

CREDIT: .5

GRADE PLACEMENT: 9-12 PREREQUISITE: None

This course provides students with knowledge of the prerequisite skills for general employment as well as the means of obtaining those skills. Employability skills include fundamentals of maintenance of personal appearance and grooming. The course also includes the knowledge, skills, and attitudes that allow employees to get along with their co-workers, make important work-related decisions, and become strong members of the work team. Discovering job possibilities that link skills, abilities, interests, values, needs, and work environment preferences is a part of the process of obtaining employability skills and abilities and is experiential learning that takes place over time. This course is designed to guide students in obtaining the knowledge and the needed employability skills that are transferable among a variety of jobs and careers and are considered essential in any employment situation. Students will learn and apply basic knowledge of what is expected in the workplace.

The following programs are under review and may be added for the 22-23 school year.



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
NCCER Construction Technology	Code Enforcement Officer, Texas Department of Health Code Enforcement	Construction Engineering Technology/ Technician	Construction Engineering Technology/ Technician	Materials Engineering
NCCER Core Corriculum	Certified Cost Estimator/ Analyst	Business Administration and Management, General	Business Administration and Management, Denetal	Business Administration and Management, Deneral
OSHA 30 Hour Construction	Cartifled Professional Estimator	Mechanical Engineering	Mechanical Engineering	Mechanical Engineering
NCCEN Construction Site Safety Technician	Structural Masonry Special Inspector	Business/ Commerce, Centeral	Business/ Correteros, General	Manufacturing Engineering

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

Occupations	Median Wage	Annual Openings	% Growth
Construction and Building Impectors	\$55,914	983	17%
Cost Estimators	\$65,939	2,239	21%
Construction Managers	\$87,402	2,401	14%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:	Work Based Learning Activities:
Shadow a building inspector or cost estimator SkillsUSA	intern with a construction company shadowing project managers or impectors

The Building Codes and Inspection program of study explores the occupations and educational opportunities associated with cost estimates for construction projects or services to aid management in bidding on or determining the price of products or services. This program of study may also include exploration into inspecting structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations.



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

Successful completion of the Construction Management and Inspection program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020



BUSINESS & INDUSTRY ENDORSEMENT

CONSTRUCTION MANAGEMENT AND INSPECTION

Level 1	Principles of Construction
Level 2	Building Maintenance Technology I
	Construction Management I
Level 3	Building Maintenance Technology II
	Construction Management II
Level 4	Practicum in Construction Management
	Career Preparation I

PRINCIPLES OF CONSTRUCTION

Grade Placement: 9-12

Credit: 1

Prerequisite: None

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. For safety and liability considerations, limiting course enrollment to 15 students is recommended. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

CONSTRUCTION MANAGEMENT I

Grade Placement: 10-12

Credit: 2

Prerequisites: Algebra I, Geometry, and Principles of Construction

In Construction Management I, students will gain knowledge and skills needed to enter the workforce as apprentice carpenters or building maintenance supervisors' assistants or to build a foundation toward a postsecondary degree in architecture, construction science, drafting, or engineering. Construction Management I includes the knowledge of design techniques and tools related to the management of architectural and engineering projects.

CONSTRUCTION MANAGEMENT II

Grade Placement: 11-12

Credit: 2

Prerequisite: Construction Management I

In Construction Management II, students will gain knowledge and skills needed to enter the workforce as apprentice carpenters or building maintenance supervisors' assistants or to build a foundation toward a postsecondary degree in architecture, construction science, drafting, or engineering. Construction Management II includes knowledge of the design, techniques, and tools related to the management of architectural and engineering projects.

BUILDING MAINTENANCE TECHNOLOGY I

Grade Placement: 10−12

Credit: 2

Recommended Prerequisite: Principles of Architecture or Principles of Construction

In Building Maintenance Technology, I, students will gain knowledge and skills needed to enter the field of building maintenance as a building maintenance technician or supervisor or secure a foundation for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in plumbing; electrical; and heating, ventilation, and air conditioning (HVAC) systems. Additionally, students will learn methods for repair and installation of drywall, roof, and insulation systems.

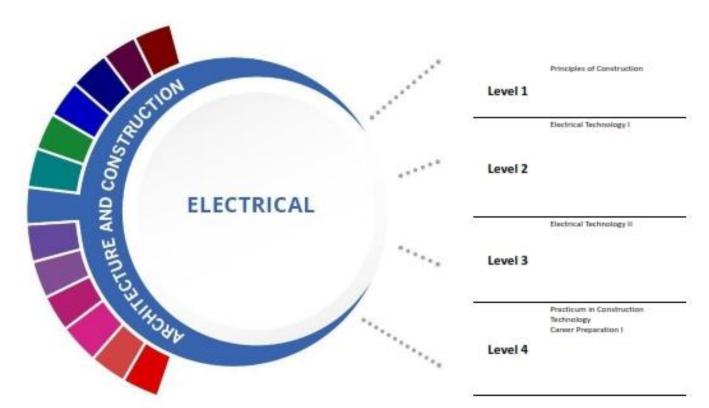
BUILDING MAINTENANCE TECHNOLOGY II

Grade Placement: 11–12

Credit: 2

Prerequisites: Building Maintenance Technology I

In Building Maintenance Technology II, students will continue to gain advanced knowledge and skills needed to enter the workforce as a building maintenance technician or supervisor and construction project manager or secure a foundation for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in safety, Occupational Safety, and Health Administration (OSHA) standards, and safety devices in electrical circuits; maintenance of electrical and heating, ventilation, and air conditioning (HVAC) systems; and concepts of historic preservation.



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ UCENSE*	ASSOCIATE*	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
NCCER Electrical, Level 1 & 2	Electrical Plans Examiner	Electrician	Construction Science	Construction Management
NCCER Electronic Systems Technician, Level 1 & 2	Certified Electrical Inspector - Master	Communications Systems Installation and Repair Technology		
Electrical Apprenticeship Certificate, Level 1	Fiber Optics Technician - Outside Plant	8		
NCCER Commercial Electrician	Certification in Fire Alarm Systems - Level 1			

Occupations	Median Wage	Annual Openings	% Growth
Electrical Linemen	\$54,184	1,314	28%
Electricians	\$44,013	8,460	21%
Electrical and Electronics Installen	537,344	245	19%
Security and Fire Alarm Installers	\$43,638	1,112	22%
Telecommunication Line Installers and Repairers	\$49,150	1,228	10%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:	Work Based Learning Activities:
Shadow an electrician or fiber optics line installer SkithUSA	intern or shadow an electrician

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary

options for this program of study, visit TXCTE.org.

The Electrical program of study explores the occupations and educational opportunities associated with installing, maintaining, and repairing electrical wiring, equipment, and fixtures. This program of study may also include exploration into installing and repairing telecommunications cable including fiber optics.



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

Successful completion of the Electrical program of study will fulfill requirements of the Business and Industry endorsement and STEM endorsement if the math and science requirements are met. Revised - July 2020



BUSINESS & INDUSTRY ENDORSEMENT

ELECTRICAL

Level 1	Principles of Construction
Level 2	Electrical Technology I
Level 3	Electrical Technology II
Level 4	Practicum in Construction Technology Career Preparation I

ELECTRICAL TECHNOLOGY I

Grade Placement: 10-12

Credit: 1

Recommended Prerequisites: Principles of Architecture or Principles of Construction

In Electrical Technology I, students will gain knowledge and skills needed to enter the workforce as an electrician or building maintenance supervisor, prepare for a postsecondary degree in a specified field of construction or construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, and the reading of electrical drawings, schematics, and specifications.

ELECTRICAL TECHNOLOGY II

Grade Placement: 11-12

Credit: 2

Prerequisite: Electrical Technology I

In Electrical Technology II, students will gain advanced knowledge and skills needed to enter the workforce as an electrician, a building maintenance technician, or a supervisor; prepare for a postsecondary degree in a specified field of construction or construction management; or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, alternating current and direct current motors, conductor installation, installation of electrical services, and electric lighting installation.