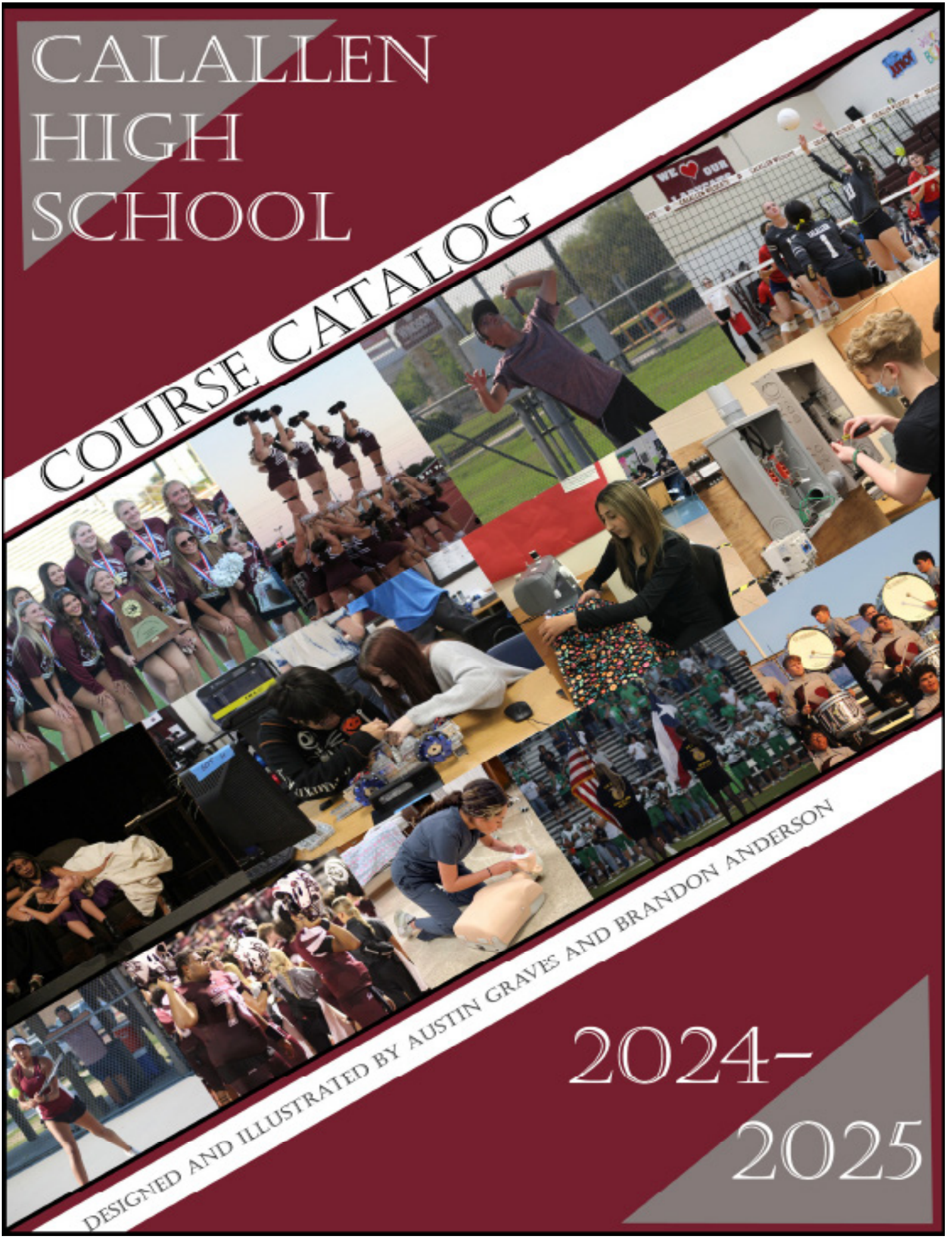
CALALLEN HIGH SCHOOL

COURSE CATALOG



DESIGNED AND ILLUSTRATED BY AUSTIN GRAVES AND BRANDON ANDERSON

2024-2025

Students and Parents/Guardians,

The information presented in this booklet can be extremely valuable to secondary school students and their families. Charting a course through high school and beyond is of critical importance to the individual and should be attended to with utmost care. Thus, it is important to keep this material for future reference. Be aware that, because this material is published early in the preceding school year, some changes in procedure, policy or course offerings may be required. Students and parents will receive updated information if that occurs.

The contents of this handbook are not contractual, and do not give rise to a claim of breach of contract against the school district. Further, the contents of this handbook apply to all students of the district, as the contents now appear in the handbook or may be amended in the future.

High School Course Selection Catalog

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February 2024

Dear Parents and Guardians:

Calallen Independent School District is committed to partner with parents and our community to challenge, nurture, and empower students to build strong character and to reach academic excellence through thinking logically, independently, and creatively in our rapidly changing world of the 21st century. As other countries embrace innovation and invest in their futures and education, our challenge is to make certain our students are prepared for a future of jobs that may not exist. To this end, we have a wide choice of classes and programs that are available to our students, particularly at the secondary level. Our schools are proud to offer extra-curricular and co-curricular programs including band, choir, speech, drama, visual arts, drill team, cheerleading, athletics, and many clubs and organizations in which students can become involved. The time that students spend during their secondary school years may be the most exciting and important ones in their lives.

Students face new challenges brought on by the rapid pace of globalization. The world we live in is constantly changing. We want to produce academically successful students and teach them to change with the world. There are many new and expanded opportunities in all fields of study and work. There are, however, many constants: the demand that students and workers be able to think, that they can problem solve, and that they can perform at high levels in everything they do. Classes at Calallen Middle School and Calallen High School are designed to prepare our students for these challenges.

Calallen ISD has developed many career pathways/endorsement plans for our students. Parents and their children should review these pathways/plans and make informed decisions regarding student schedules and class loads. The information contained in this publication will assist students as they make important decisions in planning their middle and high school years and as they plan post-graduate careers.

Families are strongly encouraged to use this guide to design a course of study that will lead to a successful future. In today's world of work, or in colleges and universities, there is a great need for capable, self-motivated, life-long learners. The decisions that students and parents make regarding a student's life in Calallen ISD will help to determine the success of that student in the future. Students are urged to select classes that will challenge them and positively impact their lives.

Respectfully,

Emily Lorenz, Superintendent
Calallen ISD

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Asst. Principal: Penb - Z

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Counselor: Lf - Ri

Stephanie Martinez
Dean of Instruction

Sherry Johnson
Counselor: Rj - Z

Calallen Independent School District

Mission Statement

Calallen ISD, grounded in a tradition of unyielding commitment to excellence, academics, integrity, citizenship, and service, empowers each and every student to achieve their unique potential in an ever-changing, dynamic world.

Vision Statement

Intentionally empowering today, to excel tomorrow.

Beliefs

In CISD, we believe that....

- all students are at the heart of our decisions.
- education is a shared responsibility among students, educators, parents, and the community.
- character and integrity matter.
- all students must feel safe, respected, and connected to learn effectively.
- students need to be critical thinkers and problem solvers.
- strong, meaningful relationships that value and respect the differences in all people are essential to success.
- our success is not determined by a single, standardized assessment.

Calallen High School

Mission Statement

To develop character, encourage life-long learning, and create
well-rounded, productive members of society.

Vision Statement

Calallen: a place where *teachers* care!
Teachers are excited and enthusiastic about their subjects and bring in creative/new and challenging material to the classroom.
Students are motivated through student-led activities.
Students are academically challenged by a rigorous learning environment.
Students are actively engaged in meaningful instruction and are allowed to explore their potential without fear or ridicule.

The Community

Calallen ISD is located in the northwest part of Corpus Christi and partially outside of the city limits. The community is a residential suburb, inhabited primarily by commuting professionals. The community plays an active role in the education of Calallen High School (CHS) students.

School Facts
Calallen High School is a public four-year secondary school with an enrollment of approximately 1250 students in grades 9-12. Calallen High School is accredited by the Texas Education Agency. It operates on a traditional schedule with a seven period day and fifty-two minute classes. The school year is divided into two semesters with two, nine week marking periods in each.

Admission

A student enrolling at Calallen High School should make an appointment with the registrar's office accompanied by parent(s) or guardian(s) with the documents listed below:

- 2 proofs of residency in the district (see Calallen ISD proof of residency requirements on district website)
- A copy of the student's birth certificate
- A copy of his/her social security card
- Complete immunization records
- A copy of the student's academic record from the previous school
- A copy of his/her STAAR (EOC) Confidential Student Report for the most recent test administration (Texas students)

Denial of Credit

Students must be in attendance at least 90 percent of the time a class is in session to receive credit. (Texas Education Code 25.092) When a student's attendance falls below 90 percent of the days the class is offered, after consideration of absences labeled as due to extraordinary circumstances, the student and parent(s) shall be notified in writing.

A campus attendance review committee shall hear all cases where a student's attendance has fallen below the 90 percent threshold, and an appeal has been filed in writing. In order to receive credit, the attendance review committee may assign one or more alternative learning activities to make up work missed or credit lost.

Course Registration and Schedule Changes

All students are expected to attend school for the entire school day and maintain a class/course schedule to fulfill seven periods of the day. Exceptions may occasionally be made by the campus principal for students in grades 12 who meet specific criteria and receive parental consent to enroll in less than a full-day's schedule. It is important that students and parents carefully plan the course selections for each semester and year. Most importantly, students should question and explore the content of a course option before making and submitting a choice. Master schedules are developed in the spring prior to the upcoming year. Selections during registration indicate how many teachers and sections will be needed for each course. This process allows administrators to plan and to hire for optimum academic excellence and success.

When students are permitted to change schedules, classes can become overcrowded and imbalanced. Many students can be affected. Even the most effective planning is compromised since it is very seldom that a one-course change affects only one course. Careful selections benefit everyone. Thank you for being a crucial part of the high school educational team as everyone works together for academic excellence.

Course Registration
- Parent and student informational meetings will be held
- Students will be guided through course selection
- Students who do not submit a registration form will have a schedule created for them by their counselor according to their academic needs and/or endorsement plan.

Add/Drop Date

- A Course Selection Verification Form will be mailed to each student at the completion of registration.
- A student who does not submit a change to the Course Selection Verification Form by the add/drop date **will not** be eligible for a course selection change.
- Only course selection changes pertaining to graduation/endorsement plans and/or computer errors will be addressed during the following year.

SAVE Committee Process

- Schedule changes that are requested after the add/drop date and that only affect core classes will be addressed through the SAVE Committee process.
- Schedule change requests for elective classes will not be considered after the add/drop date.
- After conferencing with the student's teacher, the student and/or parents may request a SAVE Committee meeting.
- The SAVE Committee is comprised of the counselor, student, the parent/guardian, the teacher whose class the student is requesting to exit, the department chair (if necessary), and an administrator.
- The SAVE Committee process becomes an option on the sixth day of the course.
- Every effort will be made to "save" the student's schedule.

Grading System

The grading system for Calallen High School is based on a 100 point scale. Grades are reported numerically in electronic grade books, on report cards and semester averages on the transcript.

Course grades issued by a classroom teacher are final and may not be changed unless the grade is arbitrary, erroneous, or not consistent with the school district grading policy, as determined by the Board of Trustees. The board's decision may not be appealed.

Students in grades 9-12 will receive credits and grade points by semester average. If a student fails (below 70) a required course, it must be repeated. If the final yearly average is a 70 or better, full credit will be awarded.

A student's mark in academic areas will not be altered because of their behavior. Behavior may be marked under Citizenship on the grade report form. The following symbols will be used to mark citizenship:

E = Excellent
S = Satisfactory
N = Needs Improvement
U = Unsatisfactory

Report cards will be posted to Skyward Family Access each nine weeks. Upon parent request, a hard copy of the report card will be provided.

Fall Semester exams are mandatory in core curriculum classes and discretionary in the elective classes.

Grade Classification

According to University Interscholastic League (UIL) rule, at the beginning of each school year, a student must have earned a minimum number of credits in core curricular subjects in order to establish a grade classification and be eligible to participate in UIL activities at the beginning of the school year. The number of credits for classification and eligibility are listed below:

Senior	19 credits (15 UIL)
Junior	12 credits (10 UIL)
Sophomore	6 credits (5 UIL)
Freshman	0 credits

Awarding Credit

1. Credit will be awarded when earned.
2. Credit is granted for a semester course if the average is at least a 70. Credit is granted for a year-long course if the average of the two semesters is at least 70. **Students must also meet the attendance requirements to earn credit.**
3. Credit and grades earned through non-accredited private school or home schooling will not transfer. Students may earn credit for these courses through Credit by Exam with prior instruction if they make a 70 percent or above. Without prior instruction the student must make 80 percent or above. The exam grade will appear on the student's transcript and will be included in the GPA if the district pay for the exam.
4. All Credit by Exams for home school students and/or non-accredited private school students must be taken between August and May 15 of the year the student enters Calallen High School. Home schooled students and private school students should check the district website for dates for Credit by Exam (CBE) dates.
5. Off-campus PE Waiver Information Packet can be found online on the Calallen ISD web page or from the high school counselors' office.

Grade Point Average and Rank in Class

Students in grades 9-12 will be ranked at the end of the first semester and at the end of the school year. **Seniors** will be officially ranked for graduation purposes at the **end of the third nine weeks** of the senior year. **For senior students enrolled in dual credit courses not taught by district staff, the second semester mid-term grade will be used.** High school credits that are earned in middle school will be included in the averaging for ranking purposes. Senior students will receive a final rank/average posted to their transcripts at the end of the fourth nine weeks for purposes of final transcripts.

Courses in all content areas shall be included in the averaging of grades for determination of honor graduate students, including valedictorian and salutatorian, and rank in class. However, specified courses designated as PAC/AP/DC shall be weighted according to the scales listed below.
All semester grades will be converted to grade points using the appropriate grade point scale.

Grade Point Distribution

Grades	AP/Dual Credit	PAC	Regular *Correspondence *Credit by Exam	*Courses Requiring Committee Approval *With Grade Points
100	6.5	6	5	4
90-99	5.5-6.4	5.0-5.9	4.0-4.9	3.0-3.9
80-89	4.5-5.4	4.0-4.9	3.0-3.9	2.0-2.9
70-79	3.5-4.4	3.0-3.9	2.0-2.9	1.0-1.9

In determining the cumulative grade point average and class rank, **courses requiring committee approval and non-academic courses** with no grade points will be excluded. This grading determination will be used for all students including honor graduates, valedictorian and salutatorian.

Courses requiring committee approval (4.0 GPA Scale)
Applied Algebra I
Applied Algebraic Reasoning
Applied Financial Math
Applied Geometry
Applied Math Models
Applied English I - IV
Occupational Preparation

Courses requring committee approval (No Grade Points)
Teacher Aide
Office Aide
Library Aide
College Lab

PAC Courses Available
Art II, III
English I, II
Algebra I, Geometry, Algebra II, Pre-Calculus
World Geography, World History
Biology, Chemistry, Physics
Spanish II and III
Computer Science I, II, III

AP Courses Available
English III, IV
Precalculus, Calculus AB, Calculus BC, Statistics
World History, European History,
U. S. History, U. S. Government, Economics
Biology, Chemistry, Physics 1,2, & C, Environmental Science
Art IV
Spanish IV and V
Computer Science Principles, Computer Science

Highest Ranking Students
The following grades will be used in calculating the numerical average, rank in class and in determining the honor graduates:

1. Semester grades earned during the ninth (9^{th}), tenth (10^{th}), and eleventh (11^{th}) grades;
2. The first semester grades and the third nine weeks grade of the twelfth (12^{th}) grade. For students enrolled in dual credit courses not taught by district staff, the second semester mid-term grade will be used.

The valedictorian and salutatorian will be named at the end of the third nine weeks in the twelfth (12^{th}) grade year. In the event of a tie, the valedictorian shall be chosen according to the following criteria:

1. Computing the weighted grade average to a sufficient number of decimal places until the tie is broken.
2. The student with the most AP/Dual Credit courses shall be considered first.
3. However, if a tie still remains, the student with the highest numerical grade average of all the AP/Dual Credit courses taken shall be the valedictorian.

Valedictorian and Salutatorian
To be eligible for valedictorian or salutatorian at Calallen High School, a student shall:
1. Have received grades for each nine-week grading period of his or her junior year and the first three nine-week grading periods of his or her senior year at the District high school in which he or she is enrolled;
2. Have met all requirements under the foundation program with the distinguished level of achievement; and
3. Have the highest and second-highest academic averages for all courses for which high school credit is earned.

Honor Graduates
The following criteria will be used to determine other honor graduates:

- **Summa Cum Laude** – students must have a 5.0 or higher grade point average at the third nine week ranking; and must have earned a distinguished level of achievement under the foundation program. All grades except those listed above shall be included in the GPA.
- **Magna Cum Laude** - students must have a 4.5-4.9 grade point average at the third nine week ranking and must have earned a distinguished level of achievement under the foundation program. All grades except those listed above shall be included in the GPA.
- **Cum Laude** - students must have a 4.0-4.4 grade point average at the third nine week ranking and must have earned a distinguished level of achievement under the foundation program. All grades except those listed above shall be included in the GPA.

Dual Credit Programs

What courses are offered in the Dual Credit program?
Dual Credit courses include academic courses (core courses) as well as career and technical courses (CTE college level courses). These courses may serve as a path to an academic degree program or college-level workforce education courses. Our specific course offerings are analyzed and chosen based the needs of our students. The College reserves the right to add, change or cancel any course section as necessary.

Consider Dual Credit
The Calallen Dual Credit Program is a way your student can **earn college credit while attending high school**. Our Dual Credit students take college-level courses taught by fully credentialed Del Mar College faculty. These courses **satisfy high school graduation requirements** and **provide college credit** at the same time.

- Our ISD will award high school academic credit.
- Del Mar College (DMC) will award college-level academic credit.

A decision about college and career planning is closer than you think. Given the steep tuition prices at most colleges and universities, higher education may seem out of reach. But what if your student could get a jump start on college credit while saving up to $15,000 on the total cost of college tuition? When Dual Credit students graduate from Calallen High School, they may have already completed transferable college credits.

How will my student benefit?
Students who become a part of our Dual Credit program:
- Receive college credit, while also receiving high school credit
- Gain a Performance Acknowledgement for Outstanding Performance in a Dual Credit Course (at least 12 hours of college academic courses with a grade of 3.0 or higher on a 4.0 scale; or an associates degree while in high school)
- Graduate from Calallen High School with transferable college credits
- Fast-track their undergraduate or vocational degree
- Save on tuition and fees by accelerating time to complete a degree
- Have access to the full range of DMC services
- Experience college culture
- Gain confidence to succeed in college

Is my student eligible for Dual Credit?
Starting their **10th grade year**, students can begin enrolling in Dual Credit courses.
Dual Credit students:
- Must **meet TSIA-2 eligibility requirements** for college-level coursework
- May enroll in the approved DMC College courses agreed upon between DMC and CHS that apply toward a certificate, degree, or DMC Core Curriculum.
- It is recommended that students in their first semester of Dual Credit enroll in a **maximum** of two courses.
- High School students are **not eligible** to enroll in **developmental courses** for Dual Credit.
- Must follow DMC's Academic Standing and all other policies and regulations outlined in the DMC Catalog.

IS YOUR STUDENT READY FOR COLLEGE-LEVEL CLASSWORK?

High School Classes	College Classes
Teachers tell students frequently when assignments are due and tests are scheduled.	Students are responsible for completing assignments and taking tests on time as outlined in the syllabus.
Teachers tell students what they need to study.	Students determine what they need to learn.
Teachers provide outlines, notes and study guides.	Students take notes and prepare their own outlines and study guides.
Teachers provide progress / grade reports frequently.	Students monitor their own progress and calculate their own grades.
Teachers provide the information needed for successful completion of the class.	Students must have prerequisite knowledge and skills before starting the class.
Teachers ask questions and lead discussions.	Students are expected to generate questions and initiate discussion.
Teachers cover all course content during class time.	Students are responsible for learning all material whether or not it is presented in class.
Teachers give tests over the material and provide make-up tests and retakes.	Students take fewer tests over larger amounts of material and are not necessarily allowed to make-up or retake tests.
Grades are based on many assignments: class participation, extra-credit opportunities and many quiz and test grades.	Student grades are based on a small number of assessments.
Parents have open communication with the teacher and their student.	Due to Family Educational Rights and Privacy Act (FERPA), communication is between only the student and professor.
Subject matters may be avoided to gear instruction towards high school student population.	College courses sometimes deal with controversial issues or subject matter.

The Dual Credit Program is a cooperative partnership between Calallen Independent School District (CISD) and Del Mar College enabling high school students in CISD to receive college credits while completing the requirements for high school graduation. Students will earn credit toward high school graduation and college credit concurrently. See your counselor for details about this program.

These are college courses taught by college professors. Students and parents need to be aware that college professors communicate with the students only.

Dual credit, continuing education (CNA, etc.) and CRAFT Training Center Guidelines:

- students must follow institutions attendance and calendar policies and dates
- students must follow **CHS NO DRIVING POLICY** unless CHS is not in session (stock show, student holidays); ALL DUAL CREDIT STUDENTS ARE REQUIRED TO RIDE THE BUS TO AND FROM ALL DUAL CREDIT, CONTINUING EDUCATION, AND CRAFT CLASSES.
- students must follow CHS attendance procedures and dual credit attendance procedures outlined in the dual credit packet.

Del Mar College Dual Credit Courses (TSIA-2 REM levels)

English 4 (3, 3, 1)
Introduction to Engineering/Drafting (2, 1, 2)
*Emergency Medical Technician & Clinical (2, 2, 2)
Business Computer Applications (3, 3, 1)
Introduction to Computers (3, 3, 1)
*Non Destructive Testing (1, 1, 0)
*Automotive Mechanics (1, 1, 0)
Algebra (College) (3, 1, 3)
*Instrumentation (1,1,0)
Business Math (3, 1, 3)
History (3, 3, 1)
Government (3, 3, 1)
Sociology (3, 3, 1)
Philosophy (3, 3, 0)
Public Speaking (3, 3, 1)
*Court Reporting (1, 1, 1)
*Diesel Mechanics (1, 1, 0)
*Process Technology (1,1,0)
Spanish (1, 1, 1)
Economics (3, 3, 2)
*HVAC (1, 1, 0)
*Welding (1,1,0)
Cosmetology (1, 1, 0)
Psychology (3, 3, 2)
Trigonometry (3, 1, 3)
*Fire Science (2, 1, 1)

**CISD recommends a REM level of 2,2,1 for these courses*

Del Mar Continuing Education Certification Courses (does not require TSIA-2) Students must go through an interview to be accepted into the following programs:

- Electrocardiography (EKG) ECRD- 1011
- Phlebotomy PLAB 1023 (Phlebotomy Lecture & Lab Skills), PLAB 1061 Clinical
- Patient Care Technician (PCT), NUPC 1020 Patient Care Technical Lecture and Lab
- Medical Assistant Training for Certification (CMA)
  - MDCA 1000- Basic Medical Assistant
  - PHRA 1009- Pharmaceutical Mathematics
  - HITT 1013- Coding and Insurance
  - MDCA 1054- Medical Assisting Credentialing Exam Review

Student Eligibility Requirements

- To be eligible to participate in the Dual Credit Program, students must meet each of the following criteria:
  - Must have approval of the high school counselor.
  - Must meet Del Mar College admission procedures and the high school application procedures.
  - Must have ACT or SAT test scores that prove exemption from TSIA-2 (Texas Success Initiative).

ACT Prior to 2/15/2023	ACT After 2/15/2023	SAT
English: 19+	English PLUS Reading: 40+	Evidence-Based Reading and
Math: 20+	Math: 22+	Writing (EBRW) 480+
Composite: 23+		Math 530+

  - TSIA-2: Must score at college level in the area required for dual credit courses **unless exempt** using ACT or SAT. See your counselor for scores.
  - Complete the application procedures. Eligibility will be determined by Del Mar College.
  - Meet grade requirement in prerequisite classes.
  - Adhere to all Del Mar College admission policies and procedures for the Dual Credit Program such as testing, registration, and payment of fees.
  - Purchase own textbooks and other necessities for dual-credit courses taken.
  - Be limited to the courses approved for Dual Credit on the Dual Credit application by their high school counselor and principal, and by a Del Mar College official.
  - Be subject to all the rules of Del Mar College and CHS.
  - Must have high school transcript sent to college.
  - Must have bacterial meningitis vaccination/booster during the five year period prior to enrollment and sent to college.

Dual Credit Procedures

- Students must complete the Del Mar College Dual Credit Program application which must be signed by the student, parent/guardian, high school counselor, high school principal, and a Del Mar College official.
- Students must complete the Del Mar College Application for Admission through www.applytexas.org.
- Students must submit official TSIA-2 test scores.
- Students must submit 1) the completed Del Mar College Dual Credit packet/checklist and guidelines, 2) the completed Del Mar College Application for Admission, and 3) an official high school transcript to the Admissions and Registrar's Office of Del Mar College, and 4) complete DMC registration Fall/Spring forms.
- Submit bacterial meningitis vaccine record (cannot be older than last five years).
- Students are responsible for tuition/fees and book costs.
- ***See Del Mar College website for official deadlines (www.delmar.edu) or by phone at 361-698-1200***

Awarding of Credit

Letter grades issued by Del Mar College will be translated into numerical grades in accordance with Title 19, Part 1, Chapter 4, Subchapter D, Rule 4.85. Numerical grades earned in the dual-credit courses will become part of the student's permanent high school record and will be included on the official academic achievement record (transcript). The grades will be calculated into the student's high school grade point average and will count in determining rank-in-class. It is imperative that the college/university official websites be checked for all drop deadlines. Dropping a Dual Credit course while in high school will not count as one of the six allowed college drops.

Del Mar College Services for Students with Disabilities

Del Mar College is an "open door college" to students with disabilities who have a high school diploma or General Education Development Certificate. Students with documented disabilities must request reasonable accommodations through the Special Services Office on the campus where they expect to take the majority of their classes.

Students with disabilities, including learning disabilities, who wish to request accommodations in class, should request with the Services for Students with Disabilities (SSD) early in the semester so that appropriate arrangements can be made. In accordance with federal laws, a student requesting special accommodations must provide documentation (most recent assessment, not ARD or IEP) of their disability to the SSD coordinator. It is the responsibility of the student to contact the SSD; otherwise, accommodations will not be made: www.delmar.edu/offices/access/index.html.

CRAFT Training Center of the Coastal Bend

Craft Training Center of the Coastal Bend partners with Calallen ISD to offer craft training classes to students during normal school hours. These post-secondary instruction classes will help supply students with the skills needed to secure a job after high school graduation. A drug screen is required for these courses. Random drug screening is done throughout the year.

The following training courses are available:

- Electrical
- Pipefitting
- Instrumentation

Tests for College Bound Students

PSAT/NMSQT (Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test)
The PSAT /NMSQT, a short form of the Scholastic Aptitude Test (SAT), measures critical reading, mathematical and writing reasoning abilities. It serves four purposes:

- allows students to compare their academic abilities with other college-bound students at their specific grade level,
- familiarizes students with the SAT,
- shows the student areas in which he/she may need to concentrate additional preparation before taking the SAT, and
- allows college-bound juniors to compete for National Merit Scholarships.

The test is offered only in October and **should be taken by all college-bound juniors**. Freshmen and Sophomores, especially those taking PAC courses, are encouraged to take the test for practice. To make the best possible use of PSAT/NMSQT results, review the Score Report Plus to determine how you performed on each type of question. Noting the kinds of mistakes made and using the personalized information in the new report can help you identify your areas of weakness and assist you in focusing your future SAT preparation

College Admissions Tests

Different colleges require different admission tests. To find out which tests are required, you should check the catalogs or websites of any colleges to which you plan to apply. Most colleges require the scores of either the Scholastic Aptitude Test (SAT) or the American College Testing Program (ACT).

Application forms for the tests are available in the guidance office of Calallen High School. Students are encouraged to apply online at www.collegeboard.com or www.actstudent.org. It is the students responsibility to have the scores sent directly to the colleges of your choice from the testing agency. The school ID (CEEB code) number is:

Calallen High School 441-045

SAT Reasoning (Scholastic Aptitude Test)
Most four-year colleges use SAT scores as part of their admissions requirement. The SAT covers three parts: Critical Reading, Mathematics and a Test of Standard Written English. The admission score varies among the colleges. If you plan to attend college, you are encouraged to take the test at the end of the junior year or early in the senior year. The SAT is given seven times a year at a number of test centers in and around Corpus Christi. A student can score a possible 800 points on each test for a possible 2400. (Visit www.collegeboard.com)

ACT + Writing (American College Testing Program)
Most colleges use ACT scores as part of their admissions requirement. The ACT assessment covers four subject areas: English, Mathematics, Social Studies, Natural Science and a written essay. The scores are reported for each subject area plus a composite score. The composite score ranges from 1-36. The admission score varies among the colleges. The ACT is offered six times a year. It is recommended that students take the test near the end of the junior year or early in the senior year. (Visit www.act.org.)

College Placement Test

TSIA-2 (Texas Success Initiative Assessment 2)
TSIA-2 is required for all dual credit courses unless the following exemptions are met:

READING

	Level 1 Developmental	**Level 2 Developmental**	**Level 3 College**
	R1	**R2**	**R3**
TSIA- 2 (after 1/11/21)	935 & below, EFL 2-4	936-944, EFL 5 or 6	945+
TSIA (before 1/11/21)	341 and below	342 - 350	351+
ACT Reading (before 2/15/23)	0 - 14	15 - 18	19+
ACT Reading (after 2/15/23)	TBA	TBA	Reading + English >= 40
SAT Reading (after 3/5/16)	200 - 402	403 - 479	480+

WRITING AND ENGLISH

	E1	**E2**	**E3**
TSIA- 2 (after 1/11/21)	Essay 1-4 & 935 & below, EFL 2-4	Essay 3-4, 936-944, EFL 5 or 6	Essay 5-8, 945+ OR <945 & EFL >=5 & Eassay >=5
TSIA (before 1/11/21)	353 and Below Essay 0 - 3	354+ Essay 0 - 3	340+ and Essay 4 or Essay 5 and ABE 4+
ACT English (before 2/15/23)	0 - 14	15 - 18	19+
ACT English (after 2/15/23)	TBA	TBA	Reading + English >= 40
SAT Reading (after 3/5/16)	200 - 402	403 - 479	480+

MATHEMATICS

	MO	**M1**	**M2**	**M3**
TSIA-2 (after 1/11/21)	935 & below, EFL 2,3	936-954, EFL 4	946-949, EFL 5	950+ or <945 & EFL 6
TSIA Assessment	335 and below	336 - 345	346 - 349	350+
ACT Math (before 2/15/23)	0 - 12	13 - 15	16 - 19	20+
ACT Math (after 2/15/23)	TBA	TBA	TBA	22+
SAT Math (after 3/5/16)	200 - 329	330 - 486	487 - 529	530+

All students must take the TSIA-2 (Texas Success Initiative) or be exempted from the test BEFORE enrolling in any college-level coursework, including dual credit courses. Students may be exempted from the TSIA-2 test by meeting qualifying scores on the SAT or ACT.

Promotion Standards

Grades 9-11
Students must meet minimum expectations (passing standard) for all state assessments (example: STAAR/EOC)

Credits required for grade level classification
- Freshman (9th): 0 to 5 credits and entering the first year in an accredited high school
- Sophomore (10th): 6 to 11 credits and entering second year in an accredited high school
- Junior (11th): 12 to 18 credits and entering third year in an accredited high school

Grade 12
- Senior (12th): 19 or more credits, entering at least third year in an accredited high school, and declaring intent to graduate the current school year.
- Students must meet all state and local graduation requirements including passing all sections of STAAR/EOC.

As a parent/guardian, you can ensure your child's success in the following ways:
- Encourage your child to develop good study habits.
- Note test dates on your home calendar.
- Make sure your child gets a good night's rest and eats a normal breakfast before testing.
- Encourage your child to do the best work possible.
- Confer with teachers on a regular basis for progress reports.
- Encourage your child to take responsibility for homework and class study.
- Do not send your child to school if illness is apparent.
- Praise your child for work done well.

Guidance Resources

Career Guidance and Counseling

Career Guidance and Counseling in the Calallen Independent School District involves partnerships between counselors, teachers, administrators, parents and community members guiding students through the Guidance and Counseling Program curriculum at each level from kindergarten through graduation. The goal is to assist all students in the process of making decisions, setting goals, gathering information, developing a plan of action, solving problems, managing change and transitioning from one school level to the next to become lifelong learners.

As students face a changing workplace with increased global competition and new technologies, they receive the best possible information to determine how their abilities, interests, experiences, and values relate to their education and career choices. Students leave Calallen ISD schools prepared for postsecondary success.

College and Career Night

Calallen ISD holds a College and Career Night annually in the fall where students and their parents have an opportunity to explore education and career options. College and university representatives from throughout the United States are available to disseminate information and answer student and parent questions. Additionally, speakers on financial aid are included in the program.

College, Career and Military Readiness Center

College, career and military readiness has become a key priority for the PK-20 education community and the nation at large. The increasingly competitive global economy makes it imperative that more students enter career fields that enable higher wages and greater potential for growth. The Calallen community has identified this is an area of need and CISD has responded with the development of a College, Career and Military Readiness Center (CCMR) located on the high school campus. It is staffed by a full time counselor and is open to students and parents.

The CCMR center provides a wide variety of career information and materials; communicate with students, faculty, parents and community representatives concerning career planning and college entrance along with military preparedness. Listed below are some of the services provided by the CCMR center:

- Assist students with college/university, scholarship, NCAA, financial aid applications (FAFSA) and other post-high school planning.
- Contacts, schedules and arranges guest speakers from the local business community, colleges and military services to present information regarding specific occupations.
- Schedules visitations by representatives from local colleges; organizes, coordinates and publicizes career-related events and other opportunities for students to learn about higher education and vocational training and preparation.
- Career days, college night, and other college or career fairs.

Internet Resources

Calallen Independent School District Official Website ..... www.calallen.org

Adventures in Education ..... www.aie.org

Texas Reality Check ..... www.texasrealitycheck.com

Today's Military Careers ..... www.todaysmilitary.com/working

TEA Graduation Toolkit http://www.tasanet.org/cms/lib07/TX01923126/Centricity/domain/175/external/graduation.pdf

ACT ..... www.actstudent.org

College Board Online ..... www.collegeboard.com
PSAT, SAT, and AP information with emphasis on preparing students for college

College for All Texans ..... www.collegeforalltexans.com

Occupational Outlook Handbook ..... www.bls.gov/ooh/
Accurate and up-to-date descriptions of all major jobs with job growth projections

TSIA-2 Resources ..... https://accuplacerpractice.collegeboard.org/login
www.delmar.edu/ssctutoring/
http://sites.austincc.edu/TSIA-2prep/
www.lsco.edu/learningcenter/testprep.asp
www.wtamu.edu/academic/anns/mps/math/mathlab/thea/thea_test.htm

Scholarships ..... www.fastweb.com
www.scholarshipsforhispanics.com
www.scholarships.com
www.everychanceeverytexan.org
www.scholarships4all.net
www.freescholarshipguide.com
www.collegenet.com

College Majors ..... www.mymajor.com
www.myroad.collegeboard.com/myroad/navigator.jsp
www.myfuture.com
www.cdr.state.tx.us/realitycheck/

Financial Aid ..... www.fafsa.ed.gov
www.finaid.org
www.salliemae.com
www.collegefunds.net
www.gocollege.com/

College Applications ..... www.applytexas.org

NCAA ..... www.eligibilitycenter.org

Listing of internet addresses (URL) is NOT an endorsement of the content.

Programs Designed for Academically Talented Students

Calallen High School provides curriculum offerings for students with special talents and abilities. Counselors aid these students in assessing their strengths and weaknesses and in determining their goals as they select their courses each year.

Wildcat Gifted & Talented Program
Calallen ISD offers programs for gifted/talented students in grades K-12. At the high school level, the gifted/talented students are served primarily through the Preparatory Advanced Courses (PAC), Advanced Placement and Dual Credit programs. Contact a counselor for additional information.

Preparatory Advanced Courses (PAC)/Advanced Placement Programs (AP)
Any student may enroll in an AP or PAC course. Enrollment in these courses should be based on interest as well as ability since the curriculum requires more advanced and intensive work and students will be expected to read, write and analyze information at a high level. Also, students must be willing to commit time each day to complete assignments, reading or research. Some course work begins during the summer with summer reading assignments. Each student must submit a PAC or AP Contract within the first week of school. The contract must be signed by the teacher, student and parent.

PAC Courses Available

Art II, III
English I, II
Biology, Chemistry, Physics
Algebra I, Geometry, Algebra II, Precalculus
World Geography, World History
Spanish II and III
Computer Science I, II, III

AP Courses Available

English III, IV
Precalculus, Calculus AB, Calculus BC, Statistics
Biology, Chemistry, Physics 1,2, & C, Environmental Science
World History, European History, U. S. History, U. S. Government, Economics
Art IV
Spanish IV, V
Computer Science, Computer Science Principles

All courses listed are subject to minimum size requirements for the class to be offered that year.

Procedures for PAC and AP Courses

Course Expectations
Students in PAC and AP courses are expected to read, write and analyze information at a high level. Students must commit time each day to complete assignments, reading or research.
Note: AP US History, AP World History, and AP European History courses may have summer reading assignments. See the Calallen web site for specific assignments.

Admission Criteria
Any student willing to do the required work may enroll in AP or PAC courses. Each student must submit a PAC or AP Contract within the first week of school. The contract must be signed by the teacher, student, and parent. Request contracts from your AP or PAC teachers.

Exiting Policy

- Students with a 59 or below at the end of the first nine-week grading period will be exited.
- Students who drop any PAC or AP class **prior** to the end of the first nine-weeks **will not receive** any additional points.
- Students who failed to maintain a semester average of 70 in a PAC/AP course will be exited from that course at the end of the semester. When students are exited from a PAC/AP course, 10/15 points will be added to their numerical course grade and they will receive regular course credit, if one is offered.
  For example: AP – BC Calculus (actual grade earned) No REGULAR BC Calculus class.
- Students who wish to exit a PAC/AP Course at the end of the semester and who are passing at that time will receive the grade they are currently making in that class and receive corresponding grade weighting for GPA. The student will also receive the PAC/AP designation on their transcript.

A Guide for College Bound Student Athletes and Their Parents

The guidelines printed below are those in effect at the time of publication. Parents and students are responsible for checking the NCAA eligibility website for any updates or changes.

NCAA (National Collegiate Athletic Association) Eligibility Regulations:
The student must register with the NCAA Initial Eligibility Clearinghouse. To practice and play as a freshman at a NCAA Division I college, the student-athlete must satisfy the requirements of NCAA bylaws. The specific bylaw relating to admission requires the student-athlete to:

- Graduate from high school;
- Must successfully complete a core curriculum of at least 16 academic courses; and
- All SAT and ACT scores must be sent from the testing board and will not be accepted from the student's transcript
- Official high school transcript must be sent to the NCAA clearing house at the completion of the junior year and upon graduation.
- For more information, visit www.eligibilitycenter.org or call the NCAA Eligibility Center at 877-262-1492.
- See appendix for NCAA eligibility center quick reference guide.

Military Service

Students who are interested in entering a branch of the military services will want to contact one or more recruiting officers to determine the enlistment program that best meets personal interests.

- Make an appointment with the local recruiter of the branch of service of your choice or of EACH branch of service to obtain current information on programs and entrance requirements.
- Before deciding on the branch of service that is best for you, talk with relatives, friends and others who have served or are currently serving in a branch of the Armed Forces to determine what military life is like in each branch of service.
- If you are considering entry into the military service, take the Armed Services Vocational Assessment Battery (ASVAB) during high school.
- Be screened by the recruiter for mental, moral and physical ability prior to acceptance.

ASVAB
The ASVAB Career Exploration Program is a comprehensive career exploration and planning program that includes a multiple aptitude test battery, an interest inventory, and various career planning tools designed to help students explore the world of work. It is a free test, intended for students in the 10th, 11th, and 12th grades, developed by the Department of Defense to help high school students across the nation learn more about career exploration and planning.

Individualized Learning & Correspondence Courses

Correspondence Courses
In accordance with Calallen ISD School Board Policy EHDE (Local and Legal), credit toward state graduation requirements may be granted for distance learning / correspondence courses only if the institution offering the correspondence course is The University of Texas at Austin, Texas Tech University, or another public institution of higher education approved by the Commissioner, including TxVSN. All courses must include the state-required essential knowledge and skills for such a course. It is also the responsibility of the school district to establish procedures for awarding of credit for such courses, and to guarantee that a student has obtained approval from the principal or designee prior to enrollment in the course. Fees may apply and are the responsibility of the student.

Student/Parent Responsibilities:
1. Student and parent must sign the correspondence contract, and contract must be returned to the school counselor before enrolling in the course. Note: the contract must be received prior to any senior dropping a course required for graduation.
2. The student must obtain administrative approval prior to enrollment in the course.
3. Students may enroll in, but credit will not be awarded for any course not included in the CHS course catalog.
4. Students must earn a grade of 70 in the course to receive credit. Any failing correspondence course grade will trigger a conference with student, parent, and counselor.
5. Weighted Coursework:
    a. If you take a correspondence course such as Advanced Placement or any other that would be weighted if taken at Calallen High School, the weight will not be calculated into the GPA and it will be entered onto the transcript as a regular course. (Example: AP English Language and Literature would translate to English III on the transcript as an unweighted grade.)
    b. If an unweighted version of the course is not included in the CHS Course catalog, credit cannot be awarded and credit cannot be indicated on the transcript. (Example: CHS only offers an AP Calculus option, therefore we cannot award a correspondence credit for an unweighted Calculus class. Correspondence enrollment will not be allowed for credit purposes.)
6. Textbooks will not be issued from Calallen High School for review of material.
7. The student and/or parent are responsible for the cost of the course and all direct correspondence with the program regarding student progress.
8. Understand that upon completion, the grade will be included in the calculation of the grade point average as a regular class (5.0).

Examinations for Acceleration or Course Credit
CISD shall give a student in grades 6–12 credit for an academic subject in which the student has received no prior instruction if the student scores:

1. A three or higher on a College Board advanced placement examination that has been approved by the Board for the applicable course;
2. A scaled score of 50 or higher on an examination administered through the College-Level Examination Program and approved by the Board for the applicable course; or
3. Eighty percent or above on any other criterion-referenced test approved by the Board for the applicable course.

If a student is given credit in a subject on the basis of an examination on which the student scored 80 percent or higher, the District shall enter the examination score on the student's transcript and the student is not required to take an end-of-course (EOC) assessment instrument under Education Code 28.023 for the course.

Compensatory Education

Compensatory Education offers supplemental courses or services designed to improve and enhance the educational achievement of students who have been identified as at risk (of dropping out of school). These services or courses are designed to provide intensive or accelerated instruction that enable students to perform at the appropriate grade level and to graduate.

To participate in a compensatory program, Calallen ISD uses student performance data from basic skills assessments, classroom performance and the results of the STAAR/EOC . Based on the information from these sources, the campus staff will place the student in services designed to enhance student learning opportunities. The courses and services listed below are available for secondary students:

1. Counseling
2. Monitoring – 3 Week Reports
3. Computer Aided Instruction
4. Pregnancy Education and Parenting
5. ESL Support
6. Subject Area Tutoring
7. Mentor Programs
8. RTI/MTSS
9. CIS

If your student has been identified as at risk and is in need of additional services, please talk to his/her counselor.

Career and Technical Education (CTE)

Career and Technical Education prepares secondary, postsecondary and adult students with technical, academic and employability skills for success in the workplace and in further education. The CTE Department, using integrated instruction and curricula; current technologies and state-of-the-art equipment and business partnerships, create a learning environment that empowers all students to enter the constantly changing workforce.

Career & Technical Education courses are a great way for students to prepare for the highly technological and competitive workplace of the 21st century. CTE programs are designed to prepare students for life-long success in high-wage, high-skill, and high-demand occupations and career fields.

Career & Technical Education Programs in Calallen ISD:

- Reinforce state and national academic standards;
- Provide students with instruction and training in career areas of interest;
- Link to business and industry in the region;
- Offer career development activities;
- Provide ability to earn certifications;
- Prepare students for challenges on higher education and a global, competitive workplace;
- Provide rigorous instruction through hands-on problem solving and projects

Mission

The mission of the Calallen High School Career and Technical Education (CTE) department is to provide a quality educational program that enables all individuals to achieve their fullest potential in the pursuit of high skill employment and advanced education. Each student shall be equipped with the technical, academic, human relations, and life-long learning skills necessary to adapt in a changing economy and to compete in the global marketplace.

A Bit of History about Career and Technical Education (CTE)

Through CTE, students in Calallen ISD have the opportunity to enroll in programs of study that consist of over 40 different CTE elective courses arranged within the programs of study designed to meet the ever changing demands of our regional, state and global workforce.

Career and Technical Education (CTE) can trace it roots back over 200 years and more to our country's rich heritage of apprenticeship training. CTE has always met the academic and technical training needs essential to build a strong, educated, skilled nation.

The consistent evolution of our CTE programs is critical to meet the increasing demands for academic rigor, integration, and to prepare each and every student for success in an ever evolving, demanding global workforce.

In CISD, our CTE teachers and programs strive to remain on the forefront of technological education, academic integration, service to the community, personal growth, and college and career readiness.

Are you ready for the challenges of the 21st Century globally competitive workforce? Our CTE students will be!

Annual Public Notification of Nondiscrimination in Calallen ISD Career and Technical Education Programs

Calallen ISD offers career and technical education programs in numerous programs from Welding, Cosmetology, Nursing, HVAC, and many more. Admission to these programs is based on interest and aptitude, age appropriateness, and class space availability.

It is the policy of Calallen ISD not to discriminate on the basis of race, color, national origin, sex or handicap in its vocational programs, services or activities and provides equal access to the Boy Scouts and other designated youth groups 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 Calallen ISD 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.

Calallen ISD 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.

For information about your rights or grievance procedures, contact the Title IX Coordinator, Emily Lorenz, at elorenz@calallen.org, 361-242-5600, and/or the Section 504 Coordinator, Dr. Leslee Schauer, at lschauer@calallen.org, 361-242-5600.

Notificación Publica de No Discriminación en Programas de Educación Técnica y Vocacional

Calallen ISD ofrece programas de educación técnica y profesional en numerosos programas de soldadura, cosmetología, enfermería, HVAC y muchos más. La admisión a estos programas se basa en el interés y la aptitud, la edad adecuada y la disponibilidad de espacio en la clase.

Es norma de Calallen ISD no discriminar en sus programas, servicios o actividades vocacionales y brinda igualdad de acceso a los Boy Scouts y otros grupos juveniles designados por motivos de raza, color, origen nacional, sexo o impedimento, tal como lo requieren el Título VI de la Ley de Derechos Civiles de 1964, según enmienda; Título IX de las Enmiendas en la Educación de 1972, y la Sección 504 de la Ley de Rehabilitación de 1973, según enmienda.

Es norma de Calallen ISD no discriminar en sus procedimientos de empleo por motivos de raza, color, origen nacional, sexo, impedimento o edad, tal como lo requieren el Título VI de la Ley de Derechos Civiles de 1964, según enmienda; Título IX de las Enmiendas en la Educación, de 1972, la ley de Discriminación por Edad, de 1975, según enmienda; y la Sección 504 de la Ley de Rehabilitación de 1973, según enmienda.

Calallen ISD tomará las medidas necesarias para asegurar que la falta de habilidad en el uso del inglés no sea un obstáculo para la admisión y participación en todos los programas educativos y vocacionales.

Para obtener información sobre sus derechos o procedimientos de queja, comuníquese con la Coordinadora del Título IX, Emily Lorenz, en elorenz@calallen.org, 361-242-5600, y/o la Coordinadora de la Sección 504, Dra. Leslee Schauer, en lschauer@calallen.org, 361-242-5600.

Industry Based Certification Options

Students may wish to pursue certificates and/or licenses based upon skills/knowledge attained while enrolled in a CTE/dual credit/continuing education course. The following chart identifies various credential options. Students may be responsible for peripheral fees associated with certification/licensure.

Industry Based Certifications Available	Program of Study Title
AWS D1.1 Structural Steel	Applied Agricultural Engineering
AWS SENSE Level 1: Entry Welder	Applied Agricultural Engineering
Elanco Veterinary Medical Applications	Animal Science
Elanco Fundamentals of Animal Science	Animal Science
Level I Certification Automotive	Automotive
Microsoft Office Specialist: Microsoft Excel Expert (Excel and Excel 2019)	Business Management
Microsoft Office Specialist: Microsoft Word Expert (Word and Word 2019)	Business Management
Cosmetology Esthetician License	Cosmetology and Personal Care Services
NCCER Core	Electrical
NCCER Electrical Level I	Electrical
NCCER Electrical Level II	Electrical
Level II Certification Firefighter	Emergency Services
Autodesk Associate (Certified User) AutoCAD	Engineering
Autodesk Associate (Certified User) Inventor for Mechanical Design	Engineering
Autodesk Associate (Certified User) Revit Architecture	Engineering
Adobe Certified Professional in Graphic Design and Illustrator	Graphic Design & Multimedia Arts
Level I Certification Air Conditioning & Applied Technology	HAVAC and Sheet Metal
Phlebotomy Technician	Healthcare Therapeutic
Certified Clinical Medical Assistant	Healthcare Therapeutic
Certified EKG Technician	Healthcare Therapeutic
Certified Nurse Aide (CNA)	Healthcare Therapeutic
Certified Patient Care Technician (CPCT)	Healthcare Therapeutic
Pharmacy Technician	Healthcare Therapeutic
NCCER Core	HVAC and Sheet Metal
NCCER Core	Manufacturing Technology
Level I or II Certification Non-Destructive Testing	Manufacturing Technology
Level I or II Certification Millwright and Machining	Manufacturing Technology
NCCER Instrumentation Level I	Oil and Gas Exploration and Production
Level I or II Certification Process Technology	Oil and Gas Exploration and Production
Texas State Florist's Association Level I Floral Certification	Plant Science
Texas State Florist's Association Level II Floral Certification	Plant Science
NCCER Pipefitting Level I	Plumbing and Pipefitting
C++ Certified Associate Programmer	Programming and Software Development
Certified Entry Level Python Programmer	Programming and Software Development
Oracle Certified Associate Java SE 8 Programmer	Programming and Software Development
AWS SENSE Level 1: Entry Welder	Welding
NCCER Core	Welding
NCCER Welding Level I	Welding

Level I and Level II Certificate Options

Students may wish to pursue a college level certificate from Del Mar by participating in one of the Dual Credit programs listed below. Each program requires a specific sequence of college level coursework. All certificates consist of 22-40 college credit hours.

Del Mar Level I/II Certificates Available	Dual Credit Program	Credit Hours Required
Suspension, Driveline, Break Specialist Level I (AUSD.CER1)	Automotive	27
Cosmetology Level I (COSM.CER1)	Cosmetology	40
Information Reporting/Scoping (IREP.CER1)	Court Reporting	22
Basic Firefighter Level II (FIFT.CERT2)	Fire Science	30
Air Conditioning Applied Technology Level I (ACAT.CER1)	Heating, Ventilation, Airconditioning (HVAC)	30
Process Tech-Industrial Instrumentation Installer Level I (PRII.CER1)	Instrumentation	31
Welding Applied Tech- Intermediate Welding (WINC.CER1)	Welding Intermediate	27

Internships, Rotations, and Career Preparation Options

Students seeking diverse educational experiences will find options available to them through Career and Technical Education internships, rotations, training stations or career preparation courses. Experiences at real-world sites in the community are available through several programs as paid or unpaid internships. These courses offer academic support plus the professional mentorship of professionals in their fields at each intern, rotation, training station or work site. Students interested in pursuing an internship, rotation, or career preparation opportunity should consult with their counselor to request additional information

The Career Preparation program is a two to three credit course. The student will attend classes in the morning and work a minimum of 15 hours per week. The training site must be approved by the individual program coordinator.

The following classes offer rotations or internships and are unpaid training programs:

- Instructional Practices in Education & Training –Career Preparation & Rotation (must have own transportation)
- Health Science Theory - Rotation

Student Leadership Organizations

Opportunities for developing skills in leadership, cooperation, and citizenship are available to students through extension of classroom/laboratory learning experiences by membership and participation in Career and Technical Education student leadership organizations. Competitive events and community service projects enhance career preparation, workplace competencies, self-confidence, and the instructional program.

Student leadership organizations vary by program areas. Students interested in participating in these programs should consult with CTE faculty members on their campus:

Agricultural Science & Technology Education: The National FFA Organization (formerly Future Farmers of America): FFA
Business Education: Business Professionals of America: BPA
Human Services: Family, Career & Community Leaders of America: FCCLA
Health Science Technology Education: Health Occupations Students of America: HOSA

Graduation Plans

A student entering grade 9 shall enroll in the courses necessary to complete the curriculum requirements for the Foundation High School Program (22 credits) specified in §74.12 of this title and the curriculum requirements for at least one endorsement (26 credits) specified in §74.13 of this title (relating to Endorsements). 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 (TEA), allowing the student to graduate under the Foundation High School Program without earning an endorsement.

Planning Your High School Program

Personal Graduation Plan/Programs of Study Alignment

- The state requires each student to connect to a personal graduation plan that leads to an endorsement. This process requires a district to consider the importance in using programs of study and the personal graduation plan, collaboratively, to satisfy current and prior legislation.
- The program of study is an advisement tool for students, parents and counselors. It is a map for college and career readiness aligned to an occupational objective. A program of study is considered the intensive education plan, as required. Programs of study work best when they are developed by stakeholders to ensure relevant and accurate information.
- The personal graduation plan is a working document used by counselors to tract student completion of graduation requirements. It is a tool used to document grades, assessments, acceleration, and other requirements in law. The personal graduation plan is an opportunity for students and counselors to meet individual needs.
- The use of the program of study and personal graduation plan is necessary to ensure desired outcomes for college and career readiness.

All students must have a signed personal graduation plan (PGP) on file in the counselors' office.

CALALLEN ISD GRADUATION PLAN

FOUNDATION 22 Credits (CISD strongly recommends 26 credits)	Foundation + Endorsement 26 Credits	Distinguished Level of Achievement
• 4 credits English—English I, II, III, IV or one credit in advanced English course • 3 credits Mathematics—Algebra I, Geometry, one credit in advanced math course • 3 credits Science—Biology, IPC/ Chemistry/Physics, & an additional advanced science course • 3 credits Social Studies—World Geography or World History, US History, Government, Economics • 2 credits Language Other Than English • 1 credit Physical Education • 1 credit Fine Arts • 1 credit Technology (Calallen) • 0.5 credit Health (CPR training) • 0.5 credit Speech (Calallen) • 3 (5) credits in Electives—may include CTE or other certification courses	• 4 credits English—English I, II, III, IV or one credit in advanced English course • 4 credits Mathematics—Algebra I, Geometry, two credits in advanced math course • 4 credits Science—Biology, IPC/ Chemistry/Physics, & two additional advanced science courses • 3 credits Social Studies—World Geography or World History, US History, Government, Economics • 2 credits Language Other Than English • 1 credit Physical Education • 1 credit Fine Arts • 1 credit Technology (Calallen) • 0.5 credit Health (CPR training) • 0.5 credit Speech (Calallen) • 5 credits in Electives—may include CTE or other certification courses • **Credit requirements specific to at least one endorsement**	• 4 credits English—English I, II, III, IV or one credit in advanced English course • 4 credits Mathematics—Algebra I, Geometry, Algebra II, one credit in advanced math course • 4 credits Science—Biology, IPC/ Chemistry/Physics, & two additional advanced science courses • 3 credits Social Studies—World Geography or World History, US History, Government, Economics • 2 credits Language Other Than English • 1 credit Physical Education • 1 credit Fine Arts • 1 credit Technology (Calallen) • 0.5 credit Health (CPR training) • 0.5 credit Speech (Calallen) • 5 credits in Electives—may include CTE or other certification courses • **Credit requirements specific to at least one endorsement**

A student must earn Distinguished Level of Achievement to be eligible for top 10% automatic admission.

Endorsements				
STEM	**Business & Industry**	**Public Service**	**Arts & Humanities**	**Multidisciplinary**
Computer Science Math Science Engineering ^Must include Algebra II and Physics	Agriculture* Arts, A/V Technology & Communication* Business Management* Journalism/Yearbook Manufacturing/ Welding*	Health Science* Human Services* Law/Public Safety* Education & Training* JROTC	Art Music Theater Languages Other Than English Social Studies	4X4 Advanced Courses AP/Dual Credit

**These Endorsement Pathways require a coherent sequence of CTE courses in a targeted program of study.*

State Assessments Required for Graduation	Performance Acknowledgemements
• English I • Algebra I • Biology • English II • US History	• Outstanding Performance in a Dual Credit Course • Outstanding Performance in Bilingualism or Biliteracy • Outstanding Performance on a College Board Advanced Placement (AP) Test • Outstanding Performance on the PSAT, SAT or ACT • Earning a Nationally or Internationally Recognized Business/ Industry Certification or License

** CPR, Peace Officer Interaction Training, and FAFSA (HB 3) completion is required before graduation**

STAAR Performance Labels

Students receive a numerical grade on their STAAR tests, and these numerical grades are grouped into categories that are referred to as "labels." Previously, a student's performance was labeled as Advanced, Satisfactory, or Unsatisfactory. Now there are four categories instead of three. The new labels are as follows:

Masters Grade Level (passing): Previously known as **Advanced**, Masters Grade Level means that a student who earns this grade is expected to succeed in the next grade or course with little or no academic intervention. Students in this category demonstrate the ability to think critically and apply the assessed knowledge and skills in varied contexts, both familiar and unfamiliar.

Meets Grade Level (passing): Students at this performance level have a high likelihood of success in the next grade or course but may still need some short-term, targeted academic intervention. Students in this category generally demonstrate the ability to think critically and apply the assessed knowledge and skills in familiar contexts.

Approaches Grade Level (passing): This level was previously known as **Satisfactory**, and students at this level have met the assessment requirements for purposes of Student Success Initiative grade promotion and graduation and are considered to have met at least the minimum passing standard. A student achieving Approaches Grade Level is likely to succeed in the next grade or course with targeted academic intervention. Students in this category generally demonstrate the ability to apply the assessed knowledge and skills in familiar contexts.

Does Not Meet Grade Level (not passing): This performance category, formerly known as **Unsatisfactory**, applies to students scoring below Approaches Grade Level. Students at this level have not passed, since performance at this level indicates a student is unlikely to succeed in the next grade or course without significant, ongoing academic intervention. Students in this category do not demonstrate a sufficient understanding of the assessed knowledge and skills.

All STAAR exams will be administered online.

The table below indicate minimum passing scores. Anything less than the Approaches Grade Level score would be considered not passing or Does Not Meet Grade Level.

STAAR/EOC EXAMS

Assessment	Approaches Grade Level	Meets Grade Level	Masters Grade Level
Algebra I	3550	4000	4345
Biology	3550	4000	4531
English I	3775	4000	4606
English II	3775	4000	4734
U.S. History	3550	4000	4424

Performance Acknowledgements

A student may earn a performance acknowledgement for outstanding performance in/on one of the following:

Dual Credit Courses

1. At least 12 hours of college academic courses with a grade of 3.0 or higher on a 4.0 scale; or
2. An associate degree while in high school

Bilingualism And Biliteracy

1. Complete all English language arts requirements and maintain a minimum GPA of 80 on a scale ; and
2. Satisfy one of the following:

- Complete minimum of 3 credits in a language other than English with a minimum GPA 80 on a scale of 100; or
- Demonstrate proficiency in a level IV language other than English with a minimum GPA of 80 on a scale of 100; or
- Complete at least 3 credits in foundation subject area in a language other than English with a minimum GPA of 80 on a scale of 100; or

- Demonstrate proficiency in one or more languages other than English by one of the following: a score of 3 or higher on AP exam

3. In addition to completing 1 & 2, an Emerging Bilingual Student must also have:

- Participated in and met the reclassification criteria for a bilingual or ESL program; and
- Scored at the Advanced High level on TELPAS

AP or IB Exam

1. A score of 3 or above on a College Board AP exam; or
2. A score of 4 or above on an IB exam

PSAT ACT-Plan SAT or ACT

1. A score on PSAT/NMSQT that qualifies the student for recognition by College Board and National Merit Scholarship Corporation; or
2. Earning a score of 442 on the ACT AspireT; or
3. Earning a score of 29 on the ACT PreACT; or
4. Combined score of at least 1350 on the SAT; or
5. A composite score of 29 on ACT (excluding the writing subscore)

Performance Acknowledgements

A student may earn a performance acknowledgement for earning a nationally or internationally recognized business or industry certification or license with one of the following:

- Performance on an examination or series of examinations sufficient to obtain a national or internationally recognized business or industry certification
- Performance on an examination sufficient to obtain a government required credential to practice a profession

Performance Acknowledgments for Students Graduating on the Foundation Plan

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 state articulated courses, with a grade of the equivalent of 3.0 or higher on a scale of 4.0 or
2. An associate degree while in high school

Bilingualism and Biliteracy

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

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

In addition to meeting the above requirements, to earn a performance acknowledgement in bilingualism and biliteracy, an Emergent Bilingual student must also have:

- Participated in and met the reclassification criteria for a bilingual or English as a second language (ESL) program; and
- Scored at the Advanced High level on all four domains of the Texas English Language Proficiency Assessment System (TELPAS).

AP test

A student may earn a performance acknowledgment on the student's diploma and transcript for outstanding performance on a College Board advanced placement test by earning a score of 3 or above on a College Board advanced placement examination or for a score of 4 or above on an International Baccalaureate examination.

PSAT, SAT, ACT

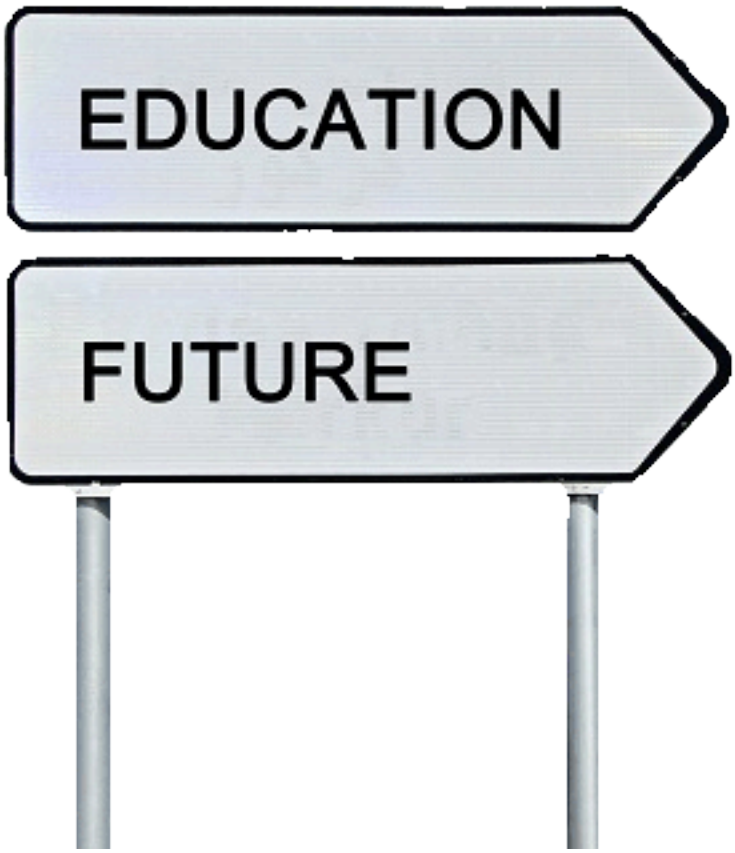
A student may earn a performance acknowledgment on the student's diploma and transcript for outstanding performance on the PSAT®, the SAT®, or the ACT® by:

1. Earning a score on the Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT®) that qualifies the student for recognition as a commended scholar or higher by the College Board and National Merit Scholarship Corporation, as part of the National Hispanic Recognition Program (NHRP) of the College Board or as part of the National Achievement Scholarship Program of the National Merit Scholarship Corporation
2. Earn a composite score of 442 on the ACT AspireT examination;
3. Earn a composite score of 29 on the ACT PreACT examination;
4. Earning a total score of at least 1390 on the SAT®; or
5. Earning a composite score on the ACT® examination of 29 (excluding the writing subscore)

Earning a nationally or internationally recognized business or industry certification

A student may earn a performance acknowledgment on the student's transcript for earning a state-recognized or nationally or internationally recognized business or industry certification or license as follows.

1. A student may earn a performance acknowledgment with:
   - performance on an examination or series of examinations sufficient to obtain a nationally or internationally recognized business or industry certification; or
   - performance on an exam sufficient to obtain a government-required credential to practice a profession.
2. 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.
3. Certifications or licenses for performance acknowledgements 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.



Calallen ISD High School Four Year Plan

Student Name: _____ Student ID #: _____ Grade: _____ Expected Grad. Year: _____

Counselor Name: _____ Date Initiated: _____ Date Amended: _____/Reason:_____

Endorsement: ___ Arts & Humanities ___Business & Industry ___Public Services ___STEM ___Multidisciplinary Studies

Graduation Plan Type: ___ Foundation ___ Foundation PLUS Endorsement ___ Distinguished Level of Achievement

Career Interest: _____

Plans for the Future: ___ Two Year College ___ Four Year University ___ Technical Training ___ Military ___ Employment

	Middle School *High School Credits*	9th Grade	10th Grade	11th Grade	12th Grade
		ELA I	**ELA II**	ELA III	ELA IV Advanced ELA
	Algebra 1	**Algebra I** Geometry Algebra II	Geometry Algebraic Reasoning Algebra II Advance Math	Math Models Algebra II Advance Math	Algebra II Advance Math
	Speech (.5) Health (.5)	**Biology** IPC	**Biology** IPC Chemistry Physics	Chemistry Physics Advance Science	Advance Science
	Fine Arts	World Geography World History	World Geography World History	**US History**	Government / Economics
	LOTE	*LOTE*	*LOTE*		
	PE	*PE/Athletics*			
	OTHER:	**Speech (.5) / Health (.5)** **Technology (1):** **OR** Endorsement /Elective:	**Speech (.5) / Health (.5)** **Technology (1):** **OR** Endorsement /Elective:	Endorsement/Elective:	Endorsement/Elective:

Student Signature: _____ Parent/Guardian: _____ Date: _____

Subject to Change - 2023

CTE Course Offerings that Meet Graduation Requirements

(Math, Science, Fine Arts, Speech, Health, & Technology)

Fine Arts
Floral Design (CTE)

Health
Principles of Health Science (CTE)

Math
Accounting II (CTE)
Financial Math (CTE)
AP Computer Science A (CTE)

Science
Advanced Animal Science (CTE)
Advanced Plant and Soil Science (CTE)
Anatomy and Physiology (CTE)
Medical Microbiology (CTE)
Forensic Science (CTE)
Pharmacology (CTE)
PLTW Engineering Science (CTE)

Speech
Professional Communications (CTE)

Technology
Business Information Management I (CTE)
Business Information Management II (CTE)
Graphic Design & Illustration I (CTE)
Graphic Design & Illustration II (CTE)
Digital Design and Media Production (CTE)
Audio Video Production I (CTE)
Audio Video Production II & Lab (CTE)
Video Game Design (CTE)
PLTW Introduction to Engineering Design (CTE)
PAC Computer Science I-III (CTE)
AP Computer Sceince Principles (CTE)
Principles of Business (CTE)
Engineering Design & Problem Solving (CTE)
CAD I & CAD II (CTE)
Yearbook

Creating Your Schedule

Course Descriptions and the Scheduling Process for All Students

In the course description section that follows, you will find a brief description of each course offered in Calallen High School listed under the appropriate Program of Study. The course descriptions include the grade levels during which specified courses may be taken and any prerequisites and recommendations. Elective courses are aligned with their Program of Study.

Students are urged to plan carefully. Although students will receive specific instructions and assistance from a high school counselor during the pre-registration process, the responsibility of selecting their appropriate Program of Study rests with the student and parent.

Preparation for Scheduling

As you begin preparation for scheduling, it is important that you keep several things in mind and follow the steps below:

- Carefully consider your interests when selecting your Program of Study to ensure that it aligns with your future career goals.
- Consider attempting the highest level of academic rigor within your Program of Study (PAC, AP, Dual Credit)
- Since continued education beyond high school most likely will be in your plans keep in mind that choices made as early as grade nine can be very important in determining options for continuing education available to you upon graduation.
- Begin now to find out about financial aid and scholarships if you will be attending college.
- Check out the information on Special Programs for College Admission in Texas, including Admission of Top 10% to Texas Public Colleges/Universities.

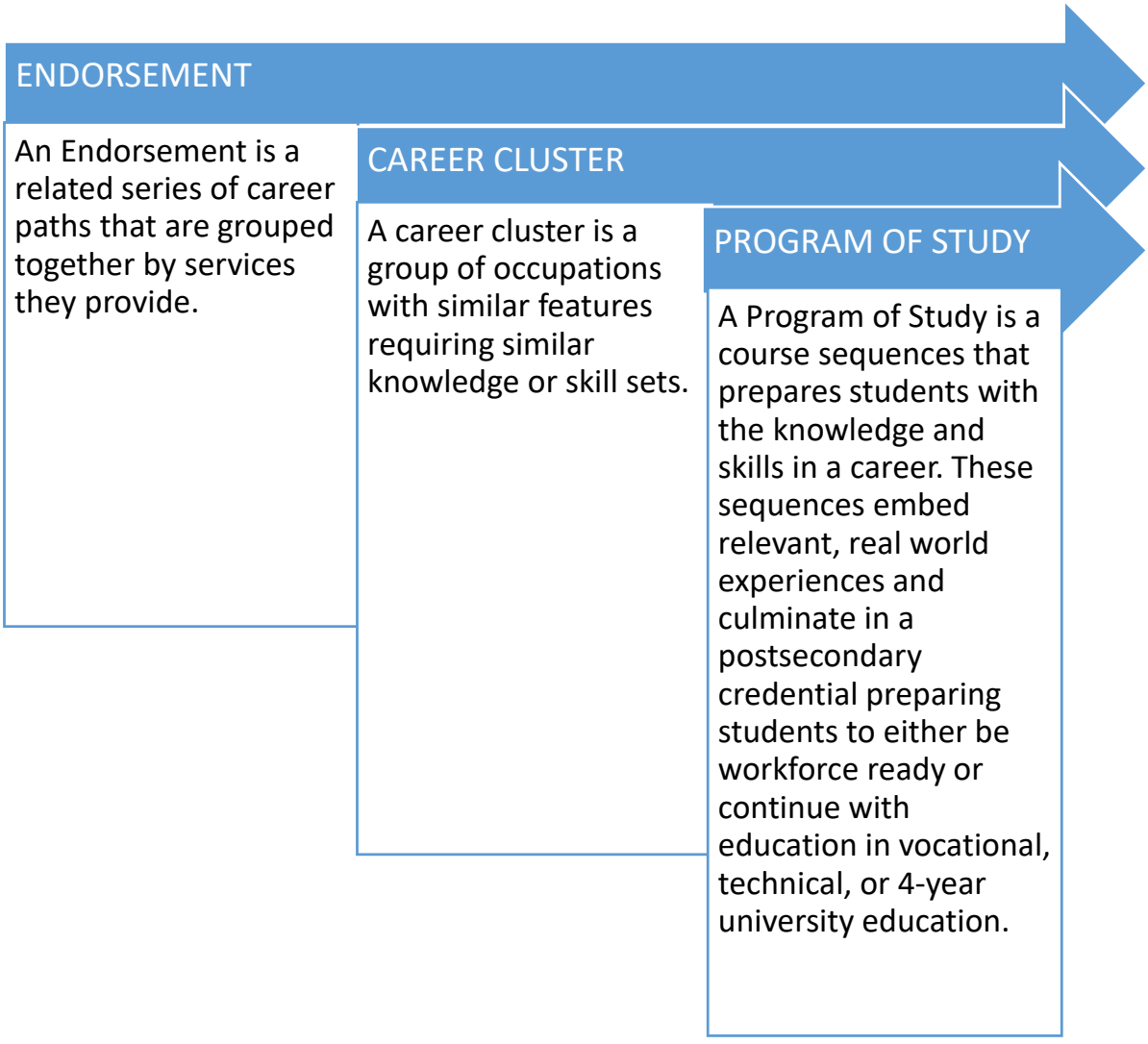
**All courses listed are subject to minimum size requirements for the class to be offered that year.*

***All foundation graduation plan course requirements and awarding of credit are subject to change based on State Board of Education (SBOE) rulings.*

Begin now to create a successful future!

Career & Technical Education
Programs of Study

Career and technical education (CTE) 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.



Career and Technical Education – Programs of Study – At a Glance 2024-25

Program of Study	Level 1	Level 2	Level 3	Level 4	Certifications
Agriculture Food & Natural Resources					
Animal Science	Principles of Agriculture, Food & Natural Resources		Livestock Production	Advanced Animal Science; Veterinary Medical; Practicum in Agricultural, Food, & Natural Resources	Elanco Veterinary Medical Applications Elanco Fundamentals of Animal Science
Agricultural Technology & Mechanical Systems	Principles of Agriculture, Food & Natural Resources	Agricultural Mechanics & Metal Technologies	Agricultural Structures Design & Fabrications; Agricultural Power Systems	Practicum in Agricultural, Food, & Natural Resources	AWS Sense Level I: Entry Welder AWS D1.1 Structural Steel
Environmental and Natural Resources	Principles of Agriculture, Food & Natural Resources	Wildlife, Fisheries, and Ecology Management		Practicum in Agricultural, Food, & Natural Resources	
Plant Science	Principles of Agriculture, Food & Natural Resources	*Landscape Design and Management (CMS)*	Floral Design; Horticulture Science	Practicum in Agricultural, Food, & Natural Resources; Advanced Plant and Soil Science; Advanced Floral Design	Texas State Level 1 & 2 Floral Certification
Arts, A/V Technology & Communications					
Digital Communications	Principles of Arts, A/V Technology & Communications Professional Communications	Audio/Video Production I	Audio/Video Production II	Practicum of A/V Production; Career Preparation I	
Graphic Design & Interactive Media	Principles of Arts, A/V Technology & Communications Video Game Design	Graphic Design & Illustration I; Digital Design & Media Production	Graphic Design & Illustration II	Practicum of Graphic Design & Illustration; Career Preparation I	Adobe Certified Professional in Graphic Design and Illustrator
Business Management					
Business Management	Principles of Business, Marketing & Finance; Business Information Management I	Business Information Management II		Career Preparation I	Microsoft Office Expert Word and Excel
Accounting & Financial Services	Principles of Business, Marketing & Finance; Business Information Management I	Accounting I; Financial Mathematics	Accounting II	Career Preparation I	Microsoft Office Expert: Excel
Education & Training					
Teaching & Training	Principles of Education & Training; Principles of Human Services	Child Development	Instructional Practices	Practicum in Education & Training Career Preparation I	
Early Learning	Principles of Education & Training; Principles of Human Services	Child Development		Career Preparation I	
Human Services					
Family & Community Services	Principles of Human Services; Professional Communications; *Dollars and Sense (MS)*	Lifetime Nutrition & Wellness; Child Development; Interpersonal Studies	Family and Community Services	Career Preparation I	
Health & Wellness	Principles of Human Services; *Dollars and Sense (CMS)*	Lifetime Nutrition & Wellness; Child Development; Interpersonal Studies	Family and Community Services	Career Preparation I	
Cosmetology & Personal Care Services	Principles of Cosmetology	Introduction to Cosmetology; Esthetics; Nail Care, Enhancements, and Spa Services	Cosmetology I/Lab	Cosmetology II/Lab	Cosmetology Operator License (*post-graduation*) Cosmetology Certificate from Del Mar College
Health Science					
Diagnostics and Therapeutic Services	Principles of Health Science	Medical Terminology	Health Science Theory/Clinical; Anatomy & Physiology; EKG/Phlebotomy; Medical Microbiology	Pharmacology; Practicum /Certified Medical Assistant, Patient Care	Clinical Medical Assistant Certified EKG Tech Certified Nurse Aide Certified EKG Tech Patient Care Technician Pharmacy Technician Phlebotomy Technician
Exercise Science, Wellness, and Restoration	Principles of Health Science	Interpersonal Studies; Lifetime Nutrition & Wellness; Medical Terminology	Anatomy & Physiology; EKG/Phlebotomy; Health Science Theory/Clinical	Certified Medial Assistant/Patient Care Career Preparation I	TBA
Law and Public Service					
Law Enforcement	Principles of Law, Public Safety, Corrections, & Security	Law Enforcement I	Law Enforcement II	Practicum in Law, Public Safety, Corrections, & Security; Forensic Science	
Fire Science	Principles of Law, Public Safety, Corrections, & Security		Firefighter 1; Emergency Medical Tech;	Firefighter 2	Basic Firefighter – Level II Certificate from Del Mar

			Anatomy & Physiology		
Legal Studies	Principles of Law, Public Safety, Corrections, & Security	Court Systems and Practices; Foundations of Court Reporting	Advanced Legal Systems & Professions;	Realtime Court Reporting; Forensic Science; Career Preparation I	Information Reporting/ Scoping Certificate from Del Mar College
Science, Technology, Engineering & Mathematics					
Programming & Software Development		Computer Science I; AP Computer Science Principles	Computer Science II; AP Computer Science A MATH/ LOTE	Computer Science III	C++ Certified Associate Programmer Certified Entry Level Python Programmer Oracle Certified Associate Java SE 8 Programmer
Engineering Foundations	Introduction to Engineering Design (PLTW)	CAD I (AutoCAD/Revit)	Engineering Science (PLTW); CAD II (Inventor/SolidWorks)	Engineering Design & Problem Solving;	Autodesk AutoCAD Certification Autodesk Inventor Certification Autodesk Revit Architecture
Energy					
Refining & Chemical Processes		Intro to Process Technology; Intro to Instrumentation and Electrical; CTC Instrumentation I	Petrochemical Safety, Health, and Environment; Advanced Instrument and Electrical	Applied Math for Industry	NCCER Instrumentation Level I; Process Tech-Industrial Instrumentation Installer Level 1 Certificate from Del Mar
Oil & Gas Exploration & Production	Process Technology I	Process Technology II		Career Preparation I; Applied Mathematics for Industry	
Architecture and Construction					
HVAC & Sheet Metal	*Principles of Construction (CMS)*	Heating, Ventilation Air Conditioning and Refrigeration I	Heating, Ventilation Air Conditioning and Refrigeration II	Heating, Ventilation Air Conditioning and Refrigeration III; Career Preparation I	Air Conditioning Applied Technology Level 1 Certificate from Del Mar
Plumbing & Pipefitting	*Principles of Construction (CMS)*; Introduction to Welding	CTC Pipefitting Technology I	CTC Pipefitting Technology II	Career Preparation I	NCCER Pipefitting Level I
Electrical	*Principles of Construction (CMS)*	Electrical Technology I	Electrical Technology II	Career Preparation I	NCCER Electrical Level I & II
Manufacturing Technology		Non-Destructive Testing I	Non-Destructive Testing II	Career Preparation I	Level I or II Certification Millwright and Machining Level I & II Certification Non-Destructive Testing
Manufacturing					
Welding	Introduction to Welding	Welding I	Welding II/Lab; Welding III	Career Preparation I	NCCER Core; NCCER Welding Level I; Welding Applied Tech – Intermediate Welding Certificate from Del Mar
Transportation, Distribution and Logistics					
Automotive and Collision Repair		Automotive Basics	Automotive Technology I	Automotive Technology II/Lab; Career Preparation I	Level I Certification Automotive

Courses are not grade-level specific. See course catalog for prerequisites.

Agriculture, Food, and Natural Resources Career Cluster

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

Animal Science
Statewide Program of Study

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

Secondary Courses for High School Credit

Level 1
- Principles of Agriculture, Food, and Natural Resources

Level 2

Level 3
- Livestock Production

Level 4
- Advanced Animal Science
- Veterinary Medical Applications/Lab
- Practicum in Agriculture, Food, and Natural Resources

Postsecondary Opportunities

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

Bachelor's Degrees
- Animal Sciences
- Agriculture
- Biology
- Zoology/ Animal Biology

Master's, Doctoral, and Professional Degrees
- Genetics
- Veterinary Medicine
- Biological and Physical Sciences
- Biological and Biomedical Sciences

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in Texas FFA	• Compete in an Agri-Science Fair 4H • Volunteer at a local farm or with a veterinarian • Participate in an FFA supervised agriculture experience

Aligned Occupations

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

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

Agriculture, Food, and Natural Resources Career Cluster

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

Agricultural Technology & Mechanical Systems

Statewide Program of Study

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

Secondary Courses for High School Credit

Level 1
- Principles of Agriculture, Food, and Natural Resources

Level 2
- Agricultural Mechanics and Metal Technologies/Lab

Level 3
- Agricultural Structures Design and Fabrications/Lab
- Agricultural Power Systems/Lab

Level 4
- Practicum in Agriculture, Food, and Natural Resources

Postsecondary Opportunities

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

Bachelor's Degrees
- Agricultural Engineering
- Agricultural Mechanization, General

Master's, Doctoral, and Professional Degrees
- Agricultural Engineering
- Agricultural Mechanization, Genera

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Tour a farm products or machinery plant • Participate in Texas FFA	• Earn a welding certification • Intern at a farm products or machinery plant • Participate in an FFA supervised agriculture experience

Industry-Based Certifications

- AWS D1.1 Structural Steel

Aligned Occupations

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

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

Agriculture, Food, and Natural Resources Career Cluster

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

Environmental and Natural Resources
Statewide Program of Study

The Environmental and Natural Resources program of study explores the occupations and educational opportunities associated with the research, design, and planning of engineering or technical duties in the prevention and control of environmental hazards. This program of study may also include exploration into conducting research for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or the health of the population.

Secondary Courses for High School Credit

Level 1
- Principles of Agriculture, Food, and Natural Resources

Level 2
- Wildlife, Fisheries, and Ecology Management/Lab

Level 3

Level 4
- Practicum in Agriculture, Food, and Natural Resources

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Attend summer leadership events • Participate in Texas FFA	• Intern at a waste treatment plant • Participate in an FFA supervised agriculture experience

Postsecondary Opportunities

Associates Degrees
- Environmental Science
- Environmental Studies
- Wildlife, Fish, and Woodlands Science and Management
- Environmental Engineering Technology/ Environmental Technology

Bachelor's Degrees
- Environmental Science
- Environmental/ Environmental Health Engineering
- Wildlife, Fish, and Woodlands Science and Management
- Natural Resources Law Enforcement and Protective Services

Master's, Doctoral, and Professional Degree
- Environmental Science
- Environmental/ Environmental Health Engineering
- Wildlife, Fish, and Woodlands Science and Management
- Fishing and Fisheries Science and Management

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Environmental Engineering Technicians	$53,352	101	32%
Environmental Engineers	$86,757	288	25%
Environmental Science and Protection Technicians, Including Health	$40,268	508	17%
Environmental Scientists and Specialists, Including Health	$77,896	644	24%
Zoologists and Wildlife Biologists	$67,309	45	32%

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

Texas Education Agency

Agriculture, Food, and Natural Resources Career Cluster

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

Plant Science
Statewide Program of Study

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.

Secondary Courses for High School Credit

Level 1
- Principles of Agriculture, Food, and Natural Resources

Level 2
- Landscape Design and Management (8th grade only)

Level 3
- Floral Design/Lab
- Horticultural Science/Lab

Level 4
- Practicum in Agriculture, Food, and Natural Resources
- Advanced Plant and Soil Science
- Advanced Floral Design

Postsecondary Opportunities

Associates Degrees
- Applied Horticulture/ Horticulture Operations, General
- Ornamental Horticulture
- Agricultural Business and Management, General
- Turf and Turfgrass Management

Bachelor's Degrees
- Applied Horticulture/ Horticulture Operations, General
- Agronomy and Crop Science
- Agricultural Business and Management, General
- Turf and Turfgrass Management

Master's, Doctoral, and Professional Degrees
- Applied Horticulture/ Horticulture Operations, General
- Agronomy and Crop Science
- Agricultural Business and Management, General
- Farm/Farm and Ranch Management

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in Texas FFA	• Work at a florist or landscaper business • Participate in an FFA supervised agriculture experience

Industry-Based Certifications

- Texas State Florist's Association Level I Floral Certification
- Texas State Florist's Association Level II Floral Certification

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Soil and Plant Scientists	$54,662	116	21%
Tree Trimmers and Pruners	$32,240	589	14%
Pesticide Handlers, Sprayers, and Applicators	$36.733	196	22%
Landscaping Supervisors	$44,408	807	19%
Biological Technicians	$42,931	452	17%

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 – August 2022

Arts, Audio/Video Technology, and Communications Career Cluster

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

Digital Communications
Statewide Program of Study

The Digital Communications program of study explores the occupations and educational opportunities associated with the production of audio and visual media formats for various purposes, such as TV broadcasts, advertising, video production, or motion pictures. This program of study may also include exploration into operating machines and equipment to record sound and images, such as microphones, sound speakers, video screens, projectors, video monitors, sound and mixing boards, and related electronic equipment.

Secondary Courses for High School Credit

Level 1
- Principles of Arts, Audio/Video Technology, and Communications
- Professional Communications

Level 2
- Audio/Video Production I/Lab

Level 3
- Audio/Video Production II/Lab

Level 4
- Practicum of Audio/Video Production

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Shadow a production team • Participate in SkillsUSA or TSA	• Intern at a local television station or video production company • Work with a local company on a project

Postsecondary Opportunities

Associates Degrees
- Recording Arts Technology/Technician
- Cinematography and Film/Video Production
- Radio and Television Broadcasting Technology/Technician
- Music Technology

Bachelor's Degrees
- Recording Arts Technology/Technician
- Cinematography and Film/Video Production
- Radio and Television
- Agricultural Communication/Journalism

Master's, Doctoral, and Professional Degrees
- Communications Technology/Technician
- Cinematography and Film/Video Production
- Radio and Television
- Agricultural Communication/Journalism

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Sound Engineering Technicians	$39,562	79	27%
Camera Operators, Television, Video, and Motion Picture	$50,024	129	9%
Audio and Video Equipment Technicians	$40,581	757	29%
Film and Video Editors	$47,382	118	23%

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

Arts, Audio/Video Technology, and Communications Career Cluster

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

Graphic Design & Multimedia Arts
Statewide Program of Study

The Graphic 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.

Secondary Courses for High School Credit

Level 1
- Principles of Arts, A/V Technology, and Communications
- Video Game Design

Level 2
- Graphic Design and Illustration I/Lab
- Digital Design and Media Productions

Level 3
- Graphic Design and Illustration II/Lab

Level 4
- Practicum in Graphic Design and Illustration
- Career Preparation I

Postsecondary Opportunities

Associates Degrees
- Animation, Interactive Technology, Video Graphics and Special Effects
- Graphic Design
- Game and Interactive Media Design

Bachelor's Degrees
- Animation, Interactive Technology, Video Graphics and Special Effects
- Graphic Design
- Game and Interactive Media Design

Master's, Doctoral, and Professional Degrees
- Animation, Interactive Technology, Video Graphics and Special Effects
- Graphic Design
- Intermedia/Multimedia

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

Aligned Occupations

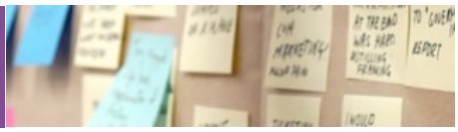
Occupations	Median Wage	Annual Openings	% Growth
Graphic Designers	$44,824	1,433	15%
Multimedia Artists and Animators	$67,392	186	21%

Successful completion of the Graphic Design & Multimedia Arts program of study will fulfill requirements of the Business and Industry endorsement. Revised – August 2022

Business, Marketing, and Finance Career Cluster

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

Business Management
Statewide Program of Study



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.

Secondary Courses for High School Credit

Level 1
- Principles of Business, Marketing, and Finance
- Business Information Management I/Lab

Level 2
- Business Information Management II/Lab

Level 3

Level 4
- Career Preparation I

Postsecondary Opportunities

Associates Degrees
- Business Administration
- Business/Commerce
- Public Administration
- Business Management

Bachelor's Degrees
- Business Administration
- Business/Commerce
- Public Administration
- Management Science

Master's, Doctoral, and Professional Degrees
- Business Administration
- Business Management
- Public Administration
- Management Science

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in Business Professional of America, Future Business Leaders of America, or DECA	• Intern with a local business or chamber of commerce

Industry-Based Certifications

- Microsoft Office Specialist: Microsoft Excel Expert (Excel and Excel 2019)
- Microsoft Office Specialist: Microsoft Word Expert (Word and Word 2019)

Aligned Occupations

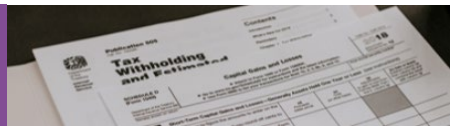
Occupations	Median Wage	Annual Openings	% Growth
Administrative Service Managers	$96,138	2,277	21%
Management Analysts	$87,651	4,706	32%
General and Operations Managers	$107,640	18,679	20%
Supervisors of Administrative Support Works	$57,616	14,982	20%

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

Business, Marketing, and Finance Career Cluster

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

Accounting and Financial Services
Statewide Program of Study



The Accounting and Financial Services program of study teaches CTE learners how to examine, analyze, and interpret financial records. Through this program of study, students will learn the skills necessary to perform financial services, prepare financial statements, interpret accounting records, give advice, or audit and evaluate statements prepared by others. This program of study will also introduce students to mathematical modeling tools.

Secondary Courses for High School Credit

Level 1
- Principles of Business, Marketing, and Finance
- Business Information Management I/Lab

Level 2
- Accounting I
- Financial Mathematics

Level 3
- Accounting II

Level 4
- Career Preparation I

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in Business Professionals of America, Future Business Leaders of America, or DECA	• Intern with a local accounting firm • Earn Microsoft Office certifications

Industry-Based Certifications

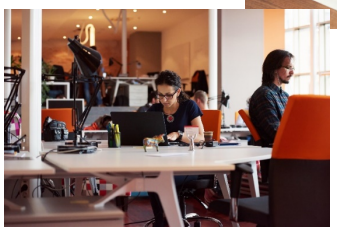
- Microsoft Office Specialist: Microsoft Excel Expert (Excel and Excel 2019)

Postsecondary Opportunities

Associates Degrees
- Real Estate
- Financial, General
- Financial Planning and Services
- Certified Income Specialist

Bachelor's Degrees
- Accounting
- Financial, General
- Financial Planning and Services
- Certified Income Specialist

Master's, Doctoral, and Professional Degrees
- Financial Accounting
- Business Administration
- Financial Planning



Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Accountants and Auditors	$71,469	14,436	22%
Loan Officers	$68,598	2,419	19%
Personal Financial Advisors	$86,965	1,861	52%
Administrative service Managers	$96,138	2,277	21%
Insurance Underwriters	$66,206	594	14%

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

Education and Training Career Cluster

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

Teaching and Training
Statewide Program of Study

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.

Secondary Courses for High School Credit

Level 1
- Principles of Education and Training
- Principles of Human Service

Level 2
- Child Development

Level 3
- Instructional Practices

Level 4
- Practicum in Education and Training
- Career Preparation I

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in the Texas Association of Future Educators or Family, Career, and Community Leaders of America	• Teach a community education class • Intern as a teaching assistant or tutor • Serve as a camp counselor

Postsecondary Opportunities

Associates Degrees
- Teacher Education
- Education, General (or specific subject area)
- Special Education
- Health and Physical Education/Fitness

Bachelor's Degrees
- Bilingual and Multilingual Education
- Education, General (or specific subject area)
- Special Education
- Health and Physical Education/Fitness

Master's, Doctoral, and Professional Degrees
- Instruction and Learning
- Educational Leadership and Administration, General
- Special Education
- Social and Philosophical Foundations of Education

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Adult Basic and Secondary Education and Literacy Teachers and Instructors	$48,069	862	17%
Middle School Teachers, Except Special and Career/Technical Education	$54,510	6,407	15%
Career and Technical Education Teachers, Secondary School	$56,360	719	9%
Special Education Teachers, Secondary School	$56,720	980	18%

Successful completion of the Teaching and Training program of study will fulfill requirements of the Public Service endorsement. Revised – August 2022

Education and Training Career Cluster

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

Early Learning
Statewide Program of Study

The Early Learning program of study focuses on early childhood education, which consists of instructing and supporting preschool and early elementary school students in activities that promote social, physical and intellectual growth as well as in basic elements of science, art, music, and literature. This program of study introduces CTE learners to tasks necessary for planning, directing, and coordinating activities for young children.

Secondary Courses for High School Credit

Level 1
- Principles of Education and Training
- Principles of Human Services

Level 2
- Child Development

Level 3

Level 4
- Career Preparation I

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in the Texas Association of Future Educators or Family, Career, and Community Leaders of America	• Teach a community education class • Volunteer as a teaching assistant

Postsecondary Opportunities

Associates Degrees
- Early Childhood Education and Teaching
- Multicultural Early Childhood Development
- Kindergarten/Preschool Education and Training
- Psychology/Sociology

Bachelor's Degrees
- Early Childhood Education and Teaching
- Multicultural Early Childhood Development
- Early Childhood
- Psychology/Sociology

Master's, Doctoral, and Professional Degrees
- Early Childhood Education and Teaching
- Multicultural Early Childhood Development
- Educational, Instructional, and Curriculum Supervision
- Educational Leadership and Administration

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Kindergarten Teachers, except Special Education	$53,310	1,848	17%
Preschool Teachers	$27,851	4,330	17%
Elementary School Teachers	$54,140	13,121	16%
Education Administrators, Elementary and Secondary School	$79,830	2407	16%

Successful completion of the Early Learning program of study will fulfill requirements of the Public Service endorsement.
Revised – August 2022

Human Services Career Cluster

The Human Services Career Cluster focuses on preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care services, and consumer services.

Family and Community Services
Statewide Program of Study

The Family and Community Services program of study introduces students to knowledge and skills related to social services, including child and human development and consumer sciences. CTE learners may learn about or practice managing social and community services or teaching family and consumer sciences. Students may follow career paths in social work or therapy for children, families, or school communities.

Secondary Courses for High School Credit

Level 1

- Dollars and Sense (8th grade only)
- Principles of Human Services
- Professional Communications

Level 2

- Lifetime Nutrition and Wellness
- Child Development
- Interpersonal Studies

Level 3

- Family and Community Services

Level 4

- Career Preparation I

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in American Association of Family and Consumer Sciences or Family, Career and Community Leaders of America	• Volunteer at a community center • Intern for a community non-profit organization

Postsecondary Opportunities

Associates Degrees
- Human Development and Family Studies
- Human Services/Sciences, General
- Family and Consumer Sciences
- Community Health Services

Bachelor's Degrees
- Human Development and Family Studies
- Human Services/Sciences, General
- Family and Consumer Sciences
- Child and Family Services

Master's, Doctoral, and Professional Degrees
- Human Development and Family Studies
- Marriage and Family Therapy/Counseling
- Human Services/Sciences
- Family Studies

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Child, Family, and School Social Workers	$41,350	2,221	17%
Social and Community Services Managers	$65,146	608	33%
Marriage and Family Therapists	$42,266	217	35%
Social and Human Service Assistants	$32,448	2,822	25%

Successful completion of the Family and Community Services program of study will fulfill requirements of the Public Service endorsement. Revised – August 2022

TEA Texas Education Agency

Human Services Career Cluster

The Human Services Career Cluster focuses on preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care services, and consumer services.

Health and Wellness
Statewide Program of Study

The Health and Wellness program of study introduces students to knowledge and skills related to promoting physical, emotional, social, and mental health and wellness. Students who choose this program of study may learn how to assist patients in planning for their health and wellness, respond to crises, and advise, provide education or counseling, or make referrals. CTE learners may also focus on addressing barriers to access health and wellness services.

Secondary Courses for High School Credit

Level 1
- Principles of Human Services
- Dollars and Sense (8th grade only)

Level 2
- Lifetime Nutrition and Wellness
- Interpersonal Studies
- Child Development

Level 3
- Family and Community Services

Level 4
- Career Preparation I

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in American Association of Family and Consumer Sciences or the Family Career and Community Leaders of America	• Job shadow a dietitian or nutritionist • Work part-time at a counseling services center, health department or hospital

Postsecondary Opportunities

Associates Degrees
- Nutrition Sciences
- Community Health Services/Liaison/Counseling
- Health and Wellness, General
- Public Health

Bachelor's Degrees
- Nutrition Sciences
- Mental Health Counseling/Counselor
- Nutrition
- Human Nutrition and Foods

Master's, Doctoral, and Professional Degrees
- Nutrition Sciences
- Community Health and Preventative Medicine
- Nutrition
- Exercise and Sports Nutrition

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Community Health Workers	$38,064	592	25%
Rehabilitation Counselors	$43,930	586	23%
Mental Health Counselors	$41,558	812	38%
Health Care Social Workers	$55,515	1,583	35%

Successful completion of the Health and Wellness program of study will fulfill requirements of the Public Service endorsement. Revised – August 2022

Human Services Career Cluster

The Human Services Career Cluster focuses on preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care services, and consumer services.

Cosmetology and Personal Care Services
Regional Program of Study

The Cosmetology and Personal Care Services regional program of study introduces CTE learners to knowledge and skills related to providing beauty and personal care services. CTE concentrators may learn about or practice managing personal care facilities and coordinating or supervising personal service workers.

Secondary Courses for High School Credit

Level 1

- Principles of Cosmetology

Level 2

- Introduction to Cosmetology
- Cosmetology Nail and Spa
- Esthetics

Level 3

- Cosmetology I/Lab

Level 4

- Cosmetology II/Lab

Postsecondary Opportunities

Certificate/License

- Certified Aesthetic Laser Operator
- Cosmetologist
- Certified Spa Supervisor
- Nail Technician/Specialist and Manicurist

Associates Degrees

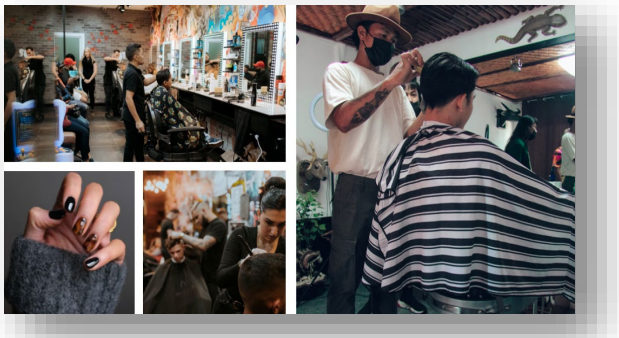
- Cosmetology/Cosmetologist, General
- Aesthetician/Esthetician and Skin Care Specialist
- Salon/Beauty Salon Management/Manager
- Cosmetology, Barber/Styling, and Nail Instructor

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in TIVA or SkillsUSA	• Job shadow a cosmetologist • Work part-time at a salon, spa, or barbershop

Level 1 Certificate

- Cosmetology Certificate ACAT.CER 1



Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
First-Line Supervisors of Personal Service Workers	$36,941	1,634	24%
Barbers	$28,267	348	14%
Hairdressers, Hairstylists, and Cosmetologists	$21,507	3,489	22%
Manicurists and Pedicurists	$21,715	418	45%
Shampooers	$18,720	139	24%
Skincare Specialists	$26,437	637	22%

Successful completion of the Cosmetology and Personal Care Services regional program of study will fulfill requirements of the Public Service endorsement. Revised – August 2022

Health Science Career Cluster

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

Diagnostics and Therapeutic Services
Statewide Program of Study

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.

Secondary Courses for High School Credit

Level 1
- Principles of Health Science

Level 2
- Medical Terminology

Level 3
- Anatomy and Physiology
- Health Science Theory/Clinical (Rotations)
- EKG/Phlebotomy
- Medical Microbiology

Level 4
- Pharmacology
- Practicum in Health Science/Certified Medical Assistant, Patient Care

Postsecondary Opportunities

Associates Degrees
- Dental Hygienist
- Medical/Clinical Assistant

Bachelor's Degrees
- Dental Hygienist

Master's, Doctoral, and Professional Degrees
- Dentist
- Physician Assistant
- Family and General Practitioners
- Pharmacist

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in SkillsUSA or Health Occupation Students of America	• Volunteer at a community wellness center, hospital, assisted living, or nursing home

Industry-Based Certifications

- Certified Clinical Medical Assistant
- Certified EKG Technician
- Patient Care Technician
- Pharmacy Technician
- Phlebotomy Technician

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Medical Assistants	$29,598	8,862	30%
Surgical Technologists	$45,032	1,150	20%
Dental Hygienists	$73,507	1,353	38%
Physicians and Surgeons	$213,071	1,151	30%

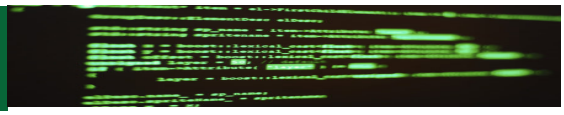
Successful completion of the Healthcare Therapeutic program of study will fulfill requirements of a Public Service endorsement or STEM endorsement if the math and science requirements are met. Revised – August 2022

Science, Technology, Engineering, and Mathematics Career Cluster

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

Programming and Software Development

Statewide Program of Study



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

Secondary Courses for High School Credit

Level 1

Level 2
- AP Computer Science Principles
- Computer Science I

Level 3
- AP Computer Science A, MATH
- AP Computer Science A, LOTE
- Computer Science II

Level 4
- Computer Science III
- Career Preparation I
- Practicum in Audio/Video Production

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Join TSA • Participate in a coding club at school	• Obtain a programming IBC

Postsecondary Opportunities

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

Bachelor's Degrees
- Management Information Systems, General
- Computer Software Engineer
- Computer Science
- Information Science/ Studies

Master's, Doctoral, and Professional Degrees
- Computer Software Engineer
- Computer Science
- Information Science/ Studies

Aligned Occupations

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

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

Science, Technology, Engineering, and Mathematics Career Cluster

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

Engineering
Statewide Program of Study

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

Secondary Courses for High School Credit

Level 1
- Introduction to Engineering Design (PLTW)

Level 2
- CAD I (AutoCAD/Revit)

Level 3
- Engineering Science
- CAD II (Inventor/Solidworks)

Level 4
- Engineering Design and Problem Solving

Postsecondary Opportunities

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

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

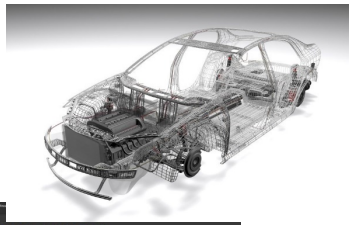
Master's, Doctoral, and Professional Degrees
- Electrical and Electronics Engineering
- Mechanical Engineering
- Bioengineering and Biomedical Engineering

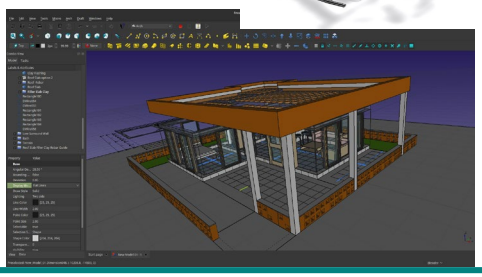
Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate in Skills USA competitions	• Intern at an engineering firm • Shadow a machinist

Industry-Based Certifications

- Autodesk Associate (Certified User)
- Autodesk Associate (Certified User) Inventor for Mechanical Design
- Autodesk Associate (Certified User) Revit Architecture
- Certified SOLIDWORKS Associate*
  *IBC sunsetting 8/31/24





Aligned Occupations

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

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

Energy Career Cluster

The Energy Career Cluster prepares individuals for careers in the designing, planning, maintaining, generating, transmission, and distribution of traditional and alternative energy.

Refining and Chemical Processes
Statewide Program of Study

The Refining and Chemical Processes program of study helps CTE learners discover how to monitor, adjust, and control different equipment housed in petrochemical plants and refineries. It introduces students to the computer technology and instrumentation used to operate a variety of equipment systems and industrial processes, helping students build the skills needed to operate these systems.

Secondary Courses for High School Credit

Level 1

Level 2
- Intro to Process Tech
- Intro to Instrumentation

Level 3
- Petrochemical Safety, Health, & Environment
- Advanced Instrumentation and Electrical

Level 4
- Applied Mathematics for Industry

Postsecondary Opportunities

Associates Degrees
- Process Technology
- Process Operating Technology
- Logistics, Material, and Supply Chain Management
- Petroleum Technology/ Technician

Bachelor's Degrees
- Business Administration and Management, General
- Business/Commerce, General
- Industrial Engineering
- Petroleum Engineering

Master's, Doctoral, and Professional Degrees
- Business Administration and Management, General
- Business/Commerce, General
- Industrial Engineering
- Petroleum Engineering

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Tour a power plant or refinery	• Attend student summer conferences

Industry-Based Certifications

- NCCER Instrumentation Level I

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Gas Plant Operators	$62,650	312	9%
Petroleum Pump System Operators, Refinery Operators, and Gaugers	$71,488	1,181	9%
Power Plant Operators	$71,635	309	9%

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

Energy Career Cluster

The Energy Career Cluster prepares individuals for careers in the designing, planning, maintaining, generating, transmission, and distribution of traditional and alternative energy.

Oil and Gas Exploration and Production

Statewide Program of Study

The Oil and Gas Exploration and Production program of study focuses on processing, refining, and distributing petroleum and gas. It introduces CTE learners to the process of regulating the flow of oil into pipelines, controlling pumping systems, and operating and maintaining machinery to generate electric power.

Secondary Courses for High School Credit

Level 1
- Process Technology I

Level 2
- Process Technology II

Level 3

Level 4
- Applied Mathematics for Industry
- Career Prep I

Postsecondary Opportunities

Associates Degrees
- Petroleum Engineering
- Chemical Engineering
- Petroleum Technology/ Technician
- Industrial Mechanics and Maintenance Technology

Bachelor's Degrees
- Petroleum Engineering
- Chemical Engineering
- Mechanical Engineering
- Industrial Engineering

Master's, Doctoral, and Professional Degrees
- Petroleum Engineering
- Chemical Engineering
- Mechanical Engineering
- Industrial Engineering

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Intern at an oil or gas company • Read trade publications to understand economic and political issues	• Earn an American Petroleum Institute Certification

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Extraction Workers- All Other	$44,616	145	25%
Extraction Workers	$34,570	1,000	7%
Drill Operators, Oil and Gas	$52,083	925	14%

Successful completion of the Oil and Gas Exploration and Production program of study will fulfill requirements of the Business and Industry endorsement or STEM endorsement if math and science requirements are met,. Revised – August 2022

Architecture and Construction Career Cluster

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

HVAC and Sheet Metal
Statewide Program of Study

The HVAC and Sheet Metal program of study explores the occupations and educational opportunities associated with installing, serving, or repairing heating and air conditioning systems and also the fabrication, assembly, installation, and repair of sheet metal products and equipment, such as ducts, control boxes, drainpipes, and furnace casings. This program of study may also include exploration into preparing cost estimates for certain construction projects involving heating and air conditioning and sheet metal.

Secondary Courses for High School Credit

Level 1

- Principles of Construction Science (8th grade only)

Level 2

- Heating, Ventilation Air Conditioning (HVAC) and Refrigeration I

Level 3

- Heating, Ventilation Air Conditioning (HVAC) and Refrigeration II

Level 4

- Heating, Ventilation Air Conditioning (HVAC) and Refrigeration III
- Career Preparation I

Postsecondary Opportunities

Associates Degrees

- Business Administration and Management, General
- Mechanical Engineering
- Heating, Ventilation, Air Conditioning and Refrigeration Engineering Technology/ Technician
- Business/ Commerce, General

Bachelor's Degrees

- Business Administration and Management
- Mechanical Engineering
- Construction Engineering Technology/ Technician
- Business/ Commerce, General

Master's, Doctoral, and Professional Degrees

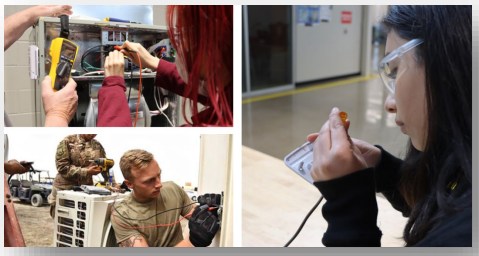
- Business Administration and Management
- Mechanical Engineering
- Construction Engineering
- Business/Commerce, General

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Shadow an HVAC worker or cost estimator • Participate in SkillsUSA	• Intern with an HVAC and/or sheet metal company

Level 1 Certificate

- Air Conditioning & Applied Technology (Delmar)



Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Heating, Air Conditioning, and Refrigeration Mechanics	$41,808	3,356	26%
Sheet Metal Workers	$37,419	1,479	17%
Cost Estimators	$63,939	2,239	21%

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

Architecture and Construction Career Cluster

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

Pipefitting
Statewide Program of Study

The Plumbing and Pipefitting program of study explores the occupations and educational opportunities related to assembling, installing, or repairing pipes, fittings, or fixtures of heating, water, or drainage systems. This program of study may also include exploration into maintaining pipe supports or related hydraulic or pneumatic equipment for steam, hot water, heating, cooling, lubricating, sprinkling, or industrial production or processing systems.

Secondary Courses for High School Credit

Level 1
- Principles of Construction Science (8th grade only)
- Introduction to Welding

Level 2
- CTC Pipefitting A

Level 3
- CTC Pipefitting B

Level 4
- Career Prep I

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Job shadow a pipefitter or steamfitter • Participate in SkillsUSA	• Obtain a Core Curriculum NCCER certification in Pipefitting Level I

Industry-Based Certifications

- NCCER Pipefitting, Level I

Postsecondary Opportunities

Associates Degrees
- Plumbing Technology/ Plumber
- Electrical and Power Transmission Installation/ Installer, General
- Pipefitting/ Pipefitter and Sprinkler Fitter
- High Performance and Custom Engine Technician/ Mechanic

Bachelor's Degrees
- Construction Science
- Operations Management and Supervision

Master's, Doctoral, and Professional Degrees
- Construction Management
- Operations Management and Supervision

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Mechanics, Installers, and Repairers	$63,710	4,243	17%
Plumbers, Pipefitters and Steamfitters	$44,928	5,765	23%
Helpers-Pipelayers, Plumbers, Pipefitters, and Steamfitters	$30,098	1,567	18%
Pipe Installers	$31,616	802	21%

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

Architecture and Construction Career Cluster

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

Electrical
Statewide Program of Study

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.

Secondary Courses for High School Credit

Level 1
- Principles of Construction Science (8th grade only

Level 2
- Electrical Technology I

Level 3
- Electrical Technology II

Level 4

Postsecondary Opportunities

Associates Degrees
- Electrician
- Communications Systems Installation and Repair Technology

Bachelor's Degrees
- Construction Science

Master's, Doctoral, and Professional Degrees
- Construction Management

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Shadow an electrician or fiber optics line installer • Participate in SkillsUSA	• Intern or shadow an electrician

Industry-Based Certifications

- NCCER Electrical Level I
- NCCER Electrical Level II

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Electrical Linemen	$54,184	1,314	28%
Electricians	$44,013	8,460	21%
Electrical and Electronics Installers	$37,544	245	19%
Security and Fire Alarm Installers	$43,638	1,112	22%
Telecommunication Line Installers and Repairers	$49,150	1,228	10%

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 – August 2022

Manufacturing Career Cluster

The Manufacturing Career Cluster focuses on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and manufacturing/process engineering.

Welding
Statewide Program of Study

The Welding program of study focuses on the development and use of automatic and computer-controlled machines, tools, and robots that perform work on metal or plastic. CTE learners will learn how to modify parts to make or repair machine tools or maintain individual machines, and how to use hand-welding or flame-cutting equipment.

Secondary Courses for High School Credit

Level 1
- Introduction to Welding

Level 2
- Welding I

Level 3
- Welding II/Lab
- Welding III

Level 4
- Career Preparation I

Postsecondary Opportunities

Associates Degrees
- Certified Welder or Welder Inspector
- Machine Shop Technology/Assistant
- Operations Management and Supervision
- Occupational Safety and Health Technology/Technician

Bachelor's Degrees
- Welding Engineering Technology/Technician
- Biomedical Technology/Technician
- Operations Management and Supervision
- Environmental Health

Master's, Doctoral, and Professional Degrees
- Welding Engineering Technology/Technician
- Occupational Health and Industrial Hygiene
- Operations Management and Supervision
- Environmental Health

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Participate and compete in SkillsUSA • Job shadow a machinist	• Work in a local business or industry apprenticeship • Join the American Welding Society

Industry-Based Certifications

- NCCER Core
- NCCER Welding Level I

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Welders, Cutters, Solderers, and Brazers	$41,350	6,171	9%
Welding Soldering and Brazing Machine Setters, Operators and Tenders	$40,040	280	9%

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

Transportation, Distribution, and Logistics Career Cluster

The Transportation, Distribution, and Logistics Career Cluster focuses on careers in planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water. It also includes related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Automotive
Statewide Program of Study

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.

Secondary Courses for High School Credit

Level 1

Level 2
- Automotive Basics

Level 3
- Automotive Technology I

Level 4
- Automotive Technology II/Lab

Postsecondary Opportunities

Associates Degrees
- Autobody/ Collision and Repair Technology/ Technician
- Medium/Heavy Vehicle and Truck Technology/ Technician
- Mechanical Engineering/ Mechanical Technology/ Technician

Bachelor's Degrees
- Mechanical Engineering/ Mechanical Technology/ Technician

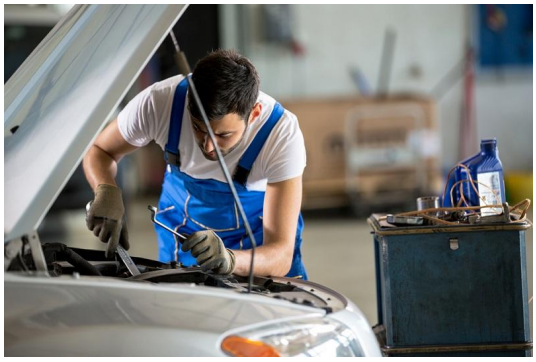
Master's, Doctoral, and Professional Degrees
- Mechanical Engineering

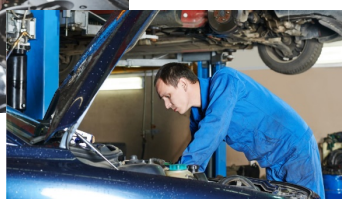
Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Join SkillsUSA or the Automotive Service Association	• Work at a local automotive repair or body shop

Industry-Based Certifications

- Level I Certificate Automotive (Delmar)





Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Automotive Body and Related Repairers	$40,144	1,456	25%
Automotive Service Technician and Mechanics	$38,459	5,557	18%

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

Law and Public Service Career Cluster

The Law and Public Service Career Cluster focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and fire and emergency services.

Fire Science
Statewide Program of Study

The Emergency Services program of study focuses on training CTE learners to respond to emergency situations, such as medical emergencies and fire-based emergencies. Students will learn how to prevent emergencies, respond appropriately and in accordance with rules and regulations during crises, and investigate and delineate the source of the emergency.

Secondary Courses for High School Credit

Level 1
- Principles of Law, Public Safety, Corrections, and Security

Level 2

Level 3
- Firefighter I
- Anatomy and Physiology
- Emergency Medical Technician – Basic

Level 4
- Firefighter II
- Practicum in Law, Public Safety, Corrections, and Security

Postsecondary Opportunities

Associates Degrees
- Emergency Medical Technology/Technician (EMT Paramedic)
- Fire Prevention and Safety Technology/Technician
- Fire Science/Firefighting

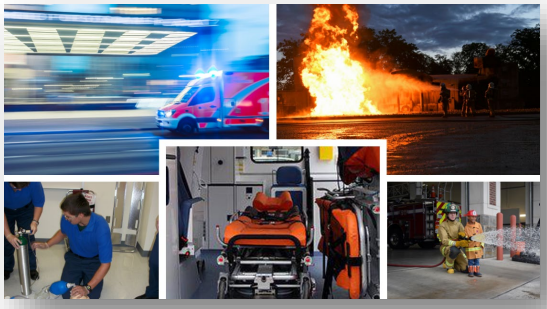
Bachelor's Degrees
- Emergency Medical Technology/Technician (EMT Paramedic)
- Natural Resources Law Enforcement and Protective Services

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Attend local emergency awareness events • Join the Texas Public Service Association	• Volunteer at a hospital or a fire station

Level II Certificate

- Basic Firefighter (Delmar) FIFT.CERT2



Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Firefighters	$50,149	2,309	13%
Fire Inspectors and Investigators	$54,787	161	14%
Emergency Medical Technicians	$34,091	1,880	31%

Successful completion of the Emergency Services program of study will fulfill requirements of the Public Service endorsement. Revised – August 2022

Law and Public Service Career Cluster

The Law and Public Service Career Cluster focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and fire and emergency services.

Law Enforcement
Statewide Program of Study

The Law Enforcement program of study teaches CTE learners about the development of, adherence to, and protection of various branches of law. Students will learn how to appropriately and legally respond to breaches in the law according to statutory rules and regulations as well as investigate how and why the breaches occurred.

Secondary Courses for High School Credit

Level 1
- Principles of Law, Public Safety, Corrections, and Security

Level 2
- Law Enforcement I

Level 3
- Law Enforcement II

Level 4
- Forensic Science
- Practicum in Law, Public Safety Corrections, and Security

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Join the Texas Public Service Association or local criminal justice clubs	• Attend court hearings and other legal procedures

Postsecondary Opportunities

Associates Degrees
- Criminal Justice/Safety Studies/Law
- Enforcement Administration
- Criminal Justice/Police Science
- Corrections
- Criminalistics and Criminal Science

Bachelor's Degrees
- Criminal Justice/Safety Studies/Law
- Enforcement Administration
- Criminal Justice/Police Science
- Juvenile Corrections
- Cyber/Computer Forensics and Counterterrorism

Master's, Doctoral, and Professional Degrees
- Criminal Justice/Safety Studies/Law
- Enforcement Administration
- Natural Resources
- Law Enforcement and Protective Services

Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Police and Sheriff's Patrol Officers	$60,112	5,241	13%
Probation Officers and Correctional Treatment Officers	$44,054	793	9%
Correctional Officers and Jailers	$40,186	4,683	9%
Immigration and Customs Inspectors	$78,104	1,236	9%
First-Line Supervisors of Police and Detectives	$91,312	253	25%

Successful completion of the Law and Public Service program of study will fulfill requirements of the Public Service endorsement. Revised – August 2022

Law and Public Service Career Cluster

The Law and Public Service Career Cluster focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and fire and emergency services.

Legal Studies
Statewide Program of Study

The Legal Studies program of study introduces CTE learners to the occupations and educational opportunities related to representing clients in criminal and civil litigation and other legal proceedings, as well as assisting lawyers and preparing legal documents. This program of study explores possible specializations in a single area of law.

Secondary Courses for High School Credit

Level 1

- Principles of Law, Public Safety, Corrections, and Security

Level 2

- Court Systems and Practices
- Foundations of Court Reporting

Level 3

- Advanced Legal Skills and Professions

Level 4

- Practicum in Law, Public Safety, Corrections, and Security
- Real Time Court Reporting
- Forensic Science
- Career Preparation I

Postsecondary Opportunities

Associates Degrees

- Legal Assistant/Paralegal

Bachelor's Degrees

- Legal Assistant/Paralegal

Master's, Doctoral, and Professional Degrees

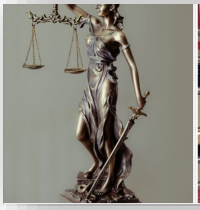
- Law
- Intellectual Property Law
- Advanced Legal Research/Studies General
- International Law and Legal Studies

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
• Attend court hearings and other legal procedures • Join the Texas Public Service Association	• Intern with a local attorney • Script and conduct a mock trial

Level I Certificate

- Inforfmation Reporting/Scoping (Del Mar) IREP.CER1



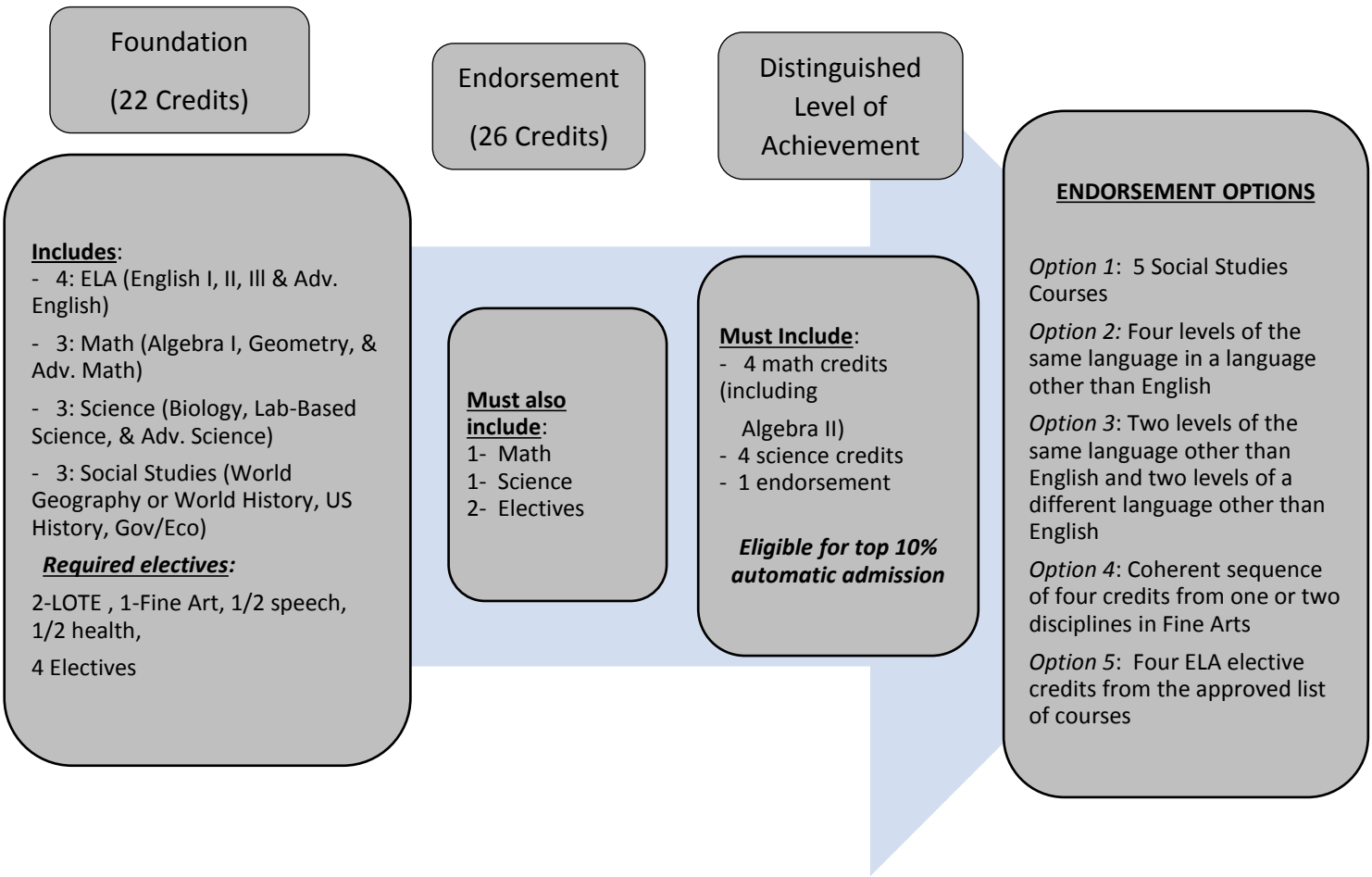
Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Lawyers	$126,131	2,801	19%
Paralegal and Legal Assistants	$50,544	2,837	19%

Successful completion of the Legal Studies program of study will fulfill requirements of the Public Service endorsement. Revised – March 2023

Arts & Humanities

- 2 levels each in two languages other than English (LOTE)
- 4 levels in the same LOTE
- Courses from one or two areas (music, theater, art, dance) in fine arts
- English electives not included in Business & Industry
- Social Studies



English Department Course Descriptions

1101 English I
Grade: 9 03220100
Prerequisite: None 1 credit
This course focuses on the writing process and the reinforcement of basic grammar skills. Reading selections include drama, poetry, prose, and fiction. Vocabulary study based on college entrances tests will be taught. Student will complete a research paper using MLA format.

1101Q/GT PAC English I
Grade: 9 03220100
Prerequisite: None 1 credit
This course is for those students who excel in language arts. In addition to the material covered in English I, problem solving techniques will be emphasized as will opportunity for the development of higher level thinking skills. Vocabulary study based on college entrance tests will be taught. This course is intended to foster student responsibility for serious scholarship by providing opportunities to work at a pre-college level and to prepare for future AP classes.

1102 English II
Grade: 10 03220200
Prerequisites: English I 1 credit
This course includes a review of basic grammar, clauses, paragraph and longer composition writing, poetry, two novels, a review of the short story, and more exposure to literature. Vocabulary study based on college entrance tests will be taught. Students will complete a research paper using MLA format.

1102Q/GT PAC English II
Grade: 10 03220200
Rec. Prerequisite: PAC English I 1 credit
This course includes a review of grammar, paragraph writing, and the short story. In addition, new genres will be introduced (poetry, drama, novels) as well as composition writing, the research paper, and high level thinking skills. Vocabulary study based on college entrance tests will be taught. Sophisticated, mature texts will be assigned for both summer and school year reading.

1103 English III
Grade: 11 03220300
Prerequisite: English II 1 credit
This course includes a review of grammar, longer composition writing, a research paper, selected novels and plays, plus an overview of American Literature from the seventeenth century to the present. Vocabulary study based on college entrance test will be taught.

1103AP/GT AP English III/Language
Grade: 11 A3220100
Rec. Prerequisite: English II PAC 1 credit
This 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. The College Board English AP language test is given at the end of the course.

1103K English III Tech Prep
Grade: 11 03220300
Prerequisite: English II 1 credit
This course places emphasis on real world reading and writing skills. Students will link academic work, career interests, and real world experiences. Emphasis is also placed on the academic skills necessary for graduation. Basic vocabulary, literature, and composition skills will be taught.

1104 English IV
Grade: 12 03220400
Prerequisite: English III 1 credit
This course will provide students with advanced writing skills and a survey of the major authors of British and Western European literature. Vocabulary study based on college entrance test will be taught.

1104K English IV Tech Prep
Grade: 12 **03220400**
Prerequisites: English III **1 credit**
This course will provide students with writing skills and a survey of the major authors of British and Western European literature. Emphasis will be on technical vocabulary introduced with each literary unit, and incorporated in real world writings and reporting. This course will give students the opportunity to link academic work, career interests, and real world experience by integrating work-based and school-based learning, providing students with instruction in aspects of the industries they are preparing to enter, integrating occupational and academic learning, and linking secondary and post secondary educational opportunities.

1104AP/GT AP English IV/Literature
Grade: 12 **A3220200**
Rec. Prerequisite: AP English III **1 credit**
This 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. The College Board English AP literature and composition test is given at the end of the course.

1110 College Preparatory ELA
Grade: 12 **CP110100**
Prerequisites: English III & pass **1 credit**
English I & II EOC's
This course is intended for twelfth-grade students who have not demonstrated college-readiness as defined by HB5 and is designed to prepare students for college-level courses. As such, students will learn to apply critical reading strategies for organizing, summarizing, analyzing, and evaluating college-level readings. Students will also learn to write effective, logical essays, utilizing textual support to develop reading comprehension strategies, and to analyze, synthesize, and make value judgments using critical thinking. Credit recovery options are not permitted for this course. To successfully pass this course, students must earn an average grade of 70 or higher (100-point scale). To achieve this grade, students must score a 70 or higher on the three required essays and each reading competency exam. Students will have multiple opportunities to achieve these measures throughout the course. Students who successfully pass may use this course to satisfy their high school curriculum Advanced English Language Arts component and will be exempt from the Texas Success Initiative (TSIA-2) at any partnering institution. However, successful completion of course does not guarantee admissions to partnering institution of higher education. Credit for this course can also be earned by completing Texas College Bridge.

1104DC English IV DC 1301
Grade: 12 **03220400**
Prerequisites: English III & Meet **.5 credit**
Del Mar Requirements
Semester 1: English 1301 is a grammar and composition course. It will introduce you to the basics of writing, the various formats of the essay, analysis of writing techniques, and the principles behind correct grammatical usage. You will also learn to read more critically analytically. Use of the computer to complete writing assignments is required.

1105DC English IV DC 1302
Grade: 12 **03220400**
Prerequisites: English III & Meet **.5 credit**
Del Mar Requirements
Semester 2: English 1302 is a continuation of the writing skills you learned in 1301. There is an emphasis placed on the essay form, but these are used in the context of literature. You will understand the basic genres of literatures—prose, poetry, and drama—and apply the writing process analytically and critically to this work.

1151 Reading
Grade: 9 03270700
Prerequisite: None 1 credit
This course offers students reading instruction to successfully navigate academic demands as well as attain life-long literacy skills. Specific instruction in word recognition, vocabulary, comprehension strategies, and fluency provides students an opportunity to read with competence, confidence, and understanding. Students learn how traditional and electronic texts are organized and how authors choose language for effect. All of these strategies are applied in instructional-level and independent-level texts that cross the content areas.

1161 Practical Writing Skills
Grade: 10-12 03221300
Prerequisite: None 1 credit
This course emphasizes skill in the use of conventions and mechanics of written English, the appropriate and effective application of English grammar, the reading comprehension of informational text, and the effective use of vocabulary. Students are expected to understand the recursive nature of reading and writing. Evaluation of students' own writing as well as the writing of others ensures that students completing this course are able to analyze and evaluate their writing.

1120 Humanities
Grades: 11-12 03221600
Prerequisite: English II & World History 1 credit
Humanities is an interdisciplinary course which includes the study of major historical and cultural movements and their relationship to literature and the other fine arts. Students will respond to art forms through outlets such as discussions, print, oral interpretations, film and dramatizations. All students are expected to participate in classroom discussions and presentations that lead to an understanding, appreciation, and enjoyment of creative achievements throughout history. Understanding is demonstrated through a variety of media. Take this course if you are interested in performance, the arts, history and or becoming a published author or playwright.

1120DC Humanities DC (HUMA 1301)
Grades: 10-12 03221600
Prerequisite: Meet Del Mar Req. .5 credit
This stand-alone course is an interdisciplinary survey of cultures focusing on the philosophical and aesthetic factors in human values with an emphasis on the historical development of the individual and society and the need to create. Additionally, this course provides a broad overview of cultural traditions and the variety of aesthetic and intellectual works through which they express their values and aspirations.

1121DC Philosophy DC (PHIL 2306)
Grade:10-12 03221600
Prerequisite: Meet Del Mar Req. .5 credit
The systematic evaluation of classical and/or contemporary ethical theories concerning the good life, human conduct in society, morals and standards of value. Course may emphasis practical applications.

Advanced Academic Strategies
1191 I 03270100
1192 II 03221810
1193 III 03221820
Grades: 9-11
Prerequisites: Teacher approval .5 or 1 credit
Advanced Academic Strategies is designed to develop and enhance students' academic study strategies. Included in this course are a variety of effective, research-proven study strategies and skills which will help students achieve their full potential in all of their academic classes. Units of study included in this course are goal-setting, organization and time management, learning styles, communication skills, note-taking skills, information-gathering and research skills, memory skills, and test-taking skills. Through this opportunity to experience a variety of options for learning, students will come to possess a repertoire of skills which enable them to be more effective and efficient learners in the high school setting and beyond.

Journalism

1170 Journalism
Grades: 9-12 **03230100**
Prerequisites: None **1 credit**
This is a beginning course, which includes conducting interviews, gathering news, writing news and feature using stories, journalistic styles, writing headlines and captions, taking basic photographs, and using professional desktop publishing programs. This is a year-long course. Adding this course at mid-year is not recommended.

Newspaper Production
1171 I **03230140**
1172 II **03230150**
1173 III **03230160**
Grades: 9-12
Prerequisites: Journalism **1 credit**
Advanced aspects of journalistic writing, editing, and desktop publishing design skills are applied to the production of the school newspaper. Staff members may be asked to use time outside of class for newspaper assignments.

Yearbook Production
1181 I **03230110**
1182 II **03230120**
1183 III **03230130**
Grades: 9-12
Prerequisite: Teacher Approval
Rec. Prerequisites: Photojournalism or Journalism
The yearbook is produced in this course. Fundamentals of design, layout, photography, computer technology, and marketing are covered. Staff members may be asked to use time outside of class for assignments. *This course satisfies the technology credit needed for graduation.*

1180 Photojournalism
Grades: 9-12 **03230800**
Prerequisites: None **.5 credit**
Students will communicate in a variety of forms while planning, interpreting and critiquing visual representation. Students will study the laws and ethical considerations that impact photography as well as refining, and enhancing their journalistic skills to plan, prepare and produce photographs for a journalistic publication.

3613 Digital Design and Media Production
Grades: 9-12 **03580400**
Prerequisites: None **1 credit**
Digital Design and Media Production students demonstrate knowledge and appropriate use of hardware components, software programs, and their connections. The student will use a variety of strategies to acquire information from electronic resources in a variety of formats, evaluate the required information, find solutions to problems, and use research skills and electronic communication to create new knowledge. *This course satisfies the technology credit needed for graduation.*

Fine Arts Department Course Descriptions

Art

5301 Art I
Grades: 9-12 **03500100**
Prerequisites: None **1 credit**
This course provides basic structure for learning about art discipline. The student will pursue excellence in drawing, mixed media, printmaking, sculptures, painting and individual interest. Students will increase their knowledge of craft techniques and develop creativity. Their work will be evaluated individually and they will be given written tests.

5302 Art II **03500200**
5312 Art II Drawing **03500500**
Grades: 9-12
Prerequisites: Art I **1 credit**
Art II includes an in-depth program with concentration on individualism using the Art I media. The student will increase their skills and learn to use their time in art more proficiently. Each student will be evaluated by tests and individual projects. Students must select from one of the medias mentioned above and study that media both semesters.

5302Q PAC Art II **03500200**
5312Q PAC Art II Drawing **03500500**
Grades: 9-12
Prerequisites: Art I **1 credit**
Students in PAC Art II will produce artwork for the AP studio art portfolio. Students are encouraged to create and express visual ideas to evaluate the worth and quality of what they produce. Students are to increase craft techniques and develop creativity. This is an in-depth program with emphasis on individualism. Students must select from one of the medias mentioned above and study that media both semesters. The student must participate in area art exhibits.

5303 Art III **03500300**
5313 Art III Drawing **03501300**
Grades: 10-12
Prerequisites: Art II/PAC Art II **1 credit**
This is an in-depth program with emphasis on individual expression through the art media, and exploration of personal themes expressed visually. Each student will be evaluated by tests and individual projects. Students must select from one of the medias mentioned above and study that media both semesters.

5303Q PAC Art III **03500300**
5313Q PAC Art III Drawing **03501300**
Grades: 10-12
Prerequisites: Art II/PAC Art II **1 credit**
PAC art is designed to promote the ability to create high quality art works and to help students make a commitment to an extended exploration of an area of interest. They are also challenged to develop specific technical abilities in fine arts. The student must participate in area art exhibits.

5304 Art IV **03500400**
5314 Art IV Drawing **03502300**
Grade: 11-12
Prerequisites: Art III/PAC Art III **1 credit**
This is an in-depth art program individualizing the student's study in the media on the students choice with emphasis on concept and technique. The student must participate in area art exhibits. Students will be graded by projects. Student must enroll for both semesters.

AP Art IV
5314AP Drawing **A3500300**
5315AP 2D Design **A3500400**
5316AP 3D Design **A3500500**
Grades: 11-12
Prerequisites: Art III/PAC Art III & AP Portfolio Contract **1 credit**

The student is challenged to submit work for evaluation in the AP Studio Art portfolio (drawing, two-D, three-D) which provides an opportunity for self-education, self-actualization, and self-confirmation with possibility of college credit.

Drawing—In the Drawing course, mastery of drawing can be demonstrated through a wide range of approaches and media. The student works to address drawing issues such as light and shade, line quality, rendering of form, composition, surface manipulation and illusion of depth, through a variety of media; which could include painting, drawing, printmaking, mixed media, etc.

2-D Design—Any 2-D process or medium may be a focus for the 2-D Design Course; including, but not limited to, graphic design, digital imaging, photography, collage, fabric design, weaving, illustration, painting, printmaking, etc.

3-D Design—A student taking the 3-D Design course should work to demonstrate understanding of the principles and elements of design as they relate to depth and space. These issues can be explored through the additive, subtractive, and/or fabrication processes. Examples of approaches include sculpture, architectural models, metal work, ceramics (clay), and three-dimensional fiber arts (ex: fashion design), among others.

4531 Floral Design*
Grades: 9-12 **13001800**
Prerequisite: None **1 credit**

This course will prepare students for careers in the field of floral design and careers related to horticultural systems. This course 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. *This course satisfies the fine arts credit needed for graduation.*

4534 Advanced Floral Design*
Grades: 10-12 **N1300270**
Prerequisite: Floral Design **1 credit**

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.

Music - Band

Music Band

5001B I **03150100**
5002B II **03150200**
5003B III **03150300**
5004B IV **03150400**
Grades: 9-12
Prerequisites: Teacher approval & Audition **1 credit**

The Band class is a performance based class designed to provide the student with an outlet for musical expression on various instruments. All students enrolled in the Band class will participate in marching band as part of the curriculum. Marching band participation includes late summer band camp, outside of the school day rehearsals and performances through the fall semester. The Marching Band performs at varsity football games, community events, and competes in marching contests sponsored by the University Interscholastic League (UIL) and other organizations. During the spring semester, all students enrolled in the band program participate in concert band according to their proficiency, as determined by audition and instructor placement. During the spring semester, students will participate in UIL sponsored events such as solo and ensemble contest and concert and sight-reading contests. Contests through other organizations may be entered as well. Students may participate and compete on an individual basis through solo competition at district, regional, area and all-state levels. Extra rehearsals and performances are mandatory as part of the students grade. *Students will receive a full year fine arts credit for each Band class, .5 PE credit for Fall Band I, and .5 PE credit for Fall Band II.*

Applied Band

5071 I **03152500**
5072 II **03152600**
Grades: 9-12
Prerequisites: Teacher approval & participation in Band or Percussion Class **1 credit**

Applied Music is an independent study course designed for the highly advanced student to develop and demonstrate solo performance skills on wind and percussion instruments. Students will work at their own pace perfecting performance based skills. All students in Applied music MUST participate in Fall Marching Band as well as Spring Concert Band. All Applied music students must also participate in district, region, area, and all-state contests.

Music Band/Percussion

5011 I **03150100**
5012 II **03150200**
5013 III **03150300**
5014 IV **03150400**
Grades: 9-12 **1 credit**
Prerequisites: Teacher Approval & Audition

Percussion Class is an extension of the regular band class designed to give percussionists individualized and group instruction on various percussion instruments. All students enrolled in the Percussion Class will participate in marching band as part of the curriculum. Marching band participation includes late summer band camp, outside of the school day rehearsals and performances through the fall semester. The Marching Band performs at varsity football games, community events, and competes in marching contests sponsored by the University Interscholastic League (UIL) and other organizations. During the spring semester, all students enrolled in the band program participate in concert band according to their proficiency, as determined by audition and instructor placement. During the spring semester, students will participate in UIL sponsored events such as solo and ensemble contest and concert and sight-reading contests. Contests through other organizations may be entered as well. Students may participate and compete on an individual basis through solo competition at district, regional, area and all-state levels. Extra rehearsals and performances are mandatory as part of the students grade. In addition, all students in Percussion Class are encouraged to audition and perform in the Winter Drumline/Winter Percussion Ensemble student activities. *Students will receive a full year fine arts credit for each Band class, .5 PE credit for Fall Band I, and .5 PE credit for Fall Band II.*

Music Band / Color Guard

5021	**I**	**03150100**
5022	**II**	**03150200**
5023	**III**	**03150300**
5024	**IV**	**03150400**

Grades: 9-12 **1 credit**

Prerequisites: Teacher Approval & Auditions

Color Guard Class is an extension of the regular band class designed to provide the student with an outlet for performance expression through flag, rifle, sabre and dance technique. All students enrolled in the Color Guard Class will participate in marching band as part of the curriculum. Marching band participation includes late summer band camp, outside of the school day rehearsals and performances through the fall semester. The Marching Band performs at varsity football games, community events, and competes in marching contests sponsored by the University Interscholastic League (UIL) and other organizations. Extra rehearsals and performances are mandatory as part of the students grade. During the spring semester, all students in color guard class are encouraged to audition and participate in the Winter Guard Student Activity. *Students will receive a full year arts credit for each Band class, .5 PE credit for Fall Band I, and .5 PE credit for Fall Band II.*

Music/Band/Jazz 1-4

5051	**I**	**03151300**
5052	**II**	**03151400**
5053	**III**	**03151500**
5054	**IV**	**03151600**

Grades: 9-12 **1 Credit**

Prerequisites: Teacher Approval & Auditions

Students with experience on an instrument suited for jazz ensemble explore the fundamentals of performance practices, improvisation, and music theory through a diverse repertoire of high-quality jazz literature. Students learn the basics of foundational jazz styles, use chord symbols, develop knowledge of musical structure, learn improvisational skills, and study the history of jazz and its iconic musicians. Public performances may serve as a culmination of specific instructional goals. Students may be required to attend and/or participate in rehearsals and performances outside the school day to support, extend, and assess learning in the classroom. This ensemble may participate in UIL and TMEA sponsored events including region, area, all-state jazz ensemble, solo and ensemble contest, and jazz festivals/ contests. All members of the Jazz Band must participate in the fall marching band.

Music - Choir

Treble Choir

5031	**I**	**03150900**
5032	**II**	**03151000**
5033	**III**	**03151100**
5034	**IV**	**03151200**

Grades: 9-12

Prerequisites: Teacher Approval & by Audition **1 credit**

This Choir is a select group of dedicated students. It is performance oriented and competitively driven. They participate in UIL Choral Concert, Sight-Reading Contest, UIL solo and ensemble and are encouraged to vie individually for positions in the TMEA District, Region, Area and All-State Choirs. Mandatory rehearsals are a portion of each student's grade. Students will learn the fundamentals of singing, music notation, and sight-reading.

Varsity Campus Choir

5121V	**I**	**03150900**
5122V	**II**	**03151000**
5123V	**III**	**03151100**
5124V	**IV**	**03151200**

Grades: 9-12

Prerequisites: Teacher Approval, Audition, & Required CHS Choir Member **1 credit**

This performance oriented Choir is for students wishing to become better musicians and singers and is a select group of dedicated students. It is performance oriented and competitively driven. They participate in UIL Choral Concert, Sight-Reading Contest, UIL solo and ensemble and are encouraged to vie individually for positions in the TMEA District, Region, Area and All-State Choirs. Mandatory rehearsals are a portion of each student's grade. Students will learn the fundamentals of singing, music notation, and sight-reading by solfege. Students will have opportunities to perform in noncompetitive concerts and may participate in the UIL solo and ensemble contest.

Men's Choir

5121	**I**	**03150900**
5122	**II**	**03151000**
5123	**III**	**03151100**
5124	**IV**	**03151200**

Grades: 9-12

Prerequisites: Teacher Approval, Audition, & Required CHS Choir Member **1 credit**

This Choir is a select group of dedicated students. It is performance oriented and competitively driven. They participate in UIL Choral Concert, Sight-Reading Contest, UIL solo and ensemble and are encouraged to vie individually for positions in the TMEA District, Region, Area and All-State Choirs. Mandatory rehearsals are a portion of each student's grade. Students will learn the fundamentals of singing, music notation, and sight-reading.

Theatre Arts

Theatre Arts

5201	**I**	**03250100**
5202	**II**	**03250200**
5203	**III**	**03250300**
5204	**IV**	**03250400**

Grades: 9-12

Prerequisites: None **1 credit**

Theatre Arts I concentrates on all aspects of theatre production including both acting and technical aspects of theatre through class scenes and projects. Students can also participate in tournaments as well as drama production. Theatre Arts I is a prerequisite for all theatre courses. Students will be required to attend school plays.

Theatre Production/Play Production

5221	**I**	**03250700**
5222	**II**	**03250800**
5223	**III**	**03250900**
5224	**IV**	**03251000**

Grades: 9-12

Rec. Prerequisites: Theater Arts I **1 credit**

Theatre Production encompasses all facets of theatre. Students may participate in any of the following areas or a combination of the following areas: acting, technical and directing. Students are required to participate in the school theatre productions and/or the UIL One Act Play. Students will be required to participate in night rehearsals and performances. These courses are for those students who are self motivated and are looking for a challenge.

Technical Theatre

5211	**I**	**03250500**
5212	**II**	**03250600**
5213	**III**	**03251100**
5214	**IV**	**03251200**

Grades: 9-12

Rec. Prerequisites: Theater Arts I **1 credit**

Technical Theatre emphasizes the backstage and technical aspects of theatre production. Projects may include mask-making, stage management, and directing. Students in Technical Theatre will be responsible for designing and building sets and props for CHS shows and will learn basic construction techniques. All Technical Theatre courses require outside lab time. The number of hours will be determined by the difficulty of the show. Students are also expected to theatre manage performance/events for Calallen High School that utilize the stage and require technical expertise. The lab time is mandatory and is part of the student's grade. Students will set up and strike for all school assemblies. Students will prepare for theatre competitions, as well as, for after school/weekend school/booster club/ community programs. This class requires time before/ after school and/or weekends. Specific supplies are required.

Foreign Language Department Course Descriptions

5801 Spanish I
Grades: 9-12 **03440100**
Prerequisites: None **1 credit**
This course develops language skills in a proficiency-oriented curriculum in listening, speaking, reading, and writing. Speaking and comprehending Spanish is emphasized. Students are acquainted with the culture and civilization associated with the Spanish language.

5802 Spanish II
Grades: 9-12 **03440200**
Prerequisites: Spanish I **1 credit**
This course extends language competency in a proficiency-oriented curriculum in listening, speaking, reading, and writing. Reviews and refines grammatical concepts. Extends student knowledge of the culture and civilization associated with the Spanish language.

5802Q PAC Spanish II
Grades: 9-12 **03440200**
Prerequisites: Spanish I **1 credit**
This course is intended for highly motivated students who wish to develop their proficiency in all four language skills: listening, speaking, reading, and writing, in order to prepare them for success in their subsequent AP courses. Students who enroll should have attained a reasonable proficiency in all four language skills in Levels I.

5803 Spanish III
Grades: 10-12 **03440300**
Prerequisites: Spanish II **1 credit**
Provides opportunities for the capable and highly motivated student to develop higher level proficiency and language skills through reading original writing, and oral activities and presentations. Includes reading and teacher-led discussions in the target language at a proficient level.

5803Q PAC Spanish III
Grades: 9-12 **03440300**
Prerequisites: Spanish II **1 credit**
This course is intended for highly motivated students who wish to develop their proficiency in all four language skills: listening, speaking, reading, and writing, in order to prepare them for success in their subsequent AP courses. Students who enroll should have attained a reasonable proficiency in all four language skills in Levels I and II.

5803DC Spanish III 1300 DC
Grades: 10-12 **03440300**
Prerequisites: Spanish II & meet Del Mar Requirements **.5 credit**
Designed to build students' speaking and listening skills for practical, everyday use and for using Spanish for basic communication on the job. Hispanic culture emphasized.

5804DC Spanish III 1310 DC
Grades: 10-12 **03440300**
Prerequisites: Spanish III 5803DC **.5 credit**
Basic practice in comprehension and production of the spoken language. Designed to build students' speaking and listening skills for practical, everyday use and for using Spanish for basic communication on the job. Hispanic culture emphasized.

5805AP AP Spanish IV/Language and Culture
Grades: 11-12 **A3440100**
Prerequisites: Spanish III **1 credit**
The AP Spanish Language and Culture course emphasizes communication (understanding and being understood by others) by applying interpersonal, interpretive, and presentational skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness. The AP Spanish Language and Culture course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate the study of language and culture, the course is taught almost exclusively in Spanish. A college board AP exam will be offered at the end of this course.

5806AP AP Spanish V/ Literature
Grades: 11-12 A3440200
Prerequisites: AP Spanish IV 1 credit
The AP Spanish Literature and Culture course uses a thematic approach to introduce students to representative texts (short stories, novels, poetry, plays, and essays). Students develop proficiencies across the three modes of communication (interpretive, interpersonal, and presentational). Through careful examination of the required readings and other texts, students work to hone their critical reading and analytical writing skills. Literature is explored within the contexts of its time and place, and students gain insights on the many voices, historical periods, and cultures represented in the required readings and other texts. The course also includes a strong focus on cultural, artistic, and linguistic connections and comparisons, which is supported by the exploration of various media (art, music, film, articles, and literary criticism). A college board AP exam will be offered at the end of this course.

3303Q PAC Computer Science I
Grades: 9-12 03580200
Prerequisites: Algebra I 1 credit
Computer Science is an introduction to the automated processing of information, including computer programming. This course gives students the conceptual background necessary to understand and construct programs, including the ability to specify computations, understand evaluation models, and utilize major constructs such as functions and procedures, data storage, conditionals, recursion and looping. At the end of this course, students should be able to read and write small programs in the language of Java in response to a given problem or scenario, preparing them to continue on to Computer Science II or AP Computer Science. *This course may count as a foreign language OR technology credit under the Foundations High School graduation plan but not both.*

3304Q PAC Computer Science II
Grades: 10 - 12 03580300
Prerequisite: PAC Computer Sci. I 1 credit
Computer Science II teaches college-level computer science concepts. Students will write Java programs with emphasis on using data structures, game programming, and graphics. *This course may count as a foreign language OR technology credit under the Foundations High School graduation plan but not both.*

3305Q PAC Computer Science III
Grades: 11 - 12 03580350
Prerequisite: PAC Computer Sci. II 1 credit
Advanced Computer Science is a continuation of Computer Science AP and builds upon such topics as object-oriented programming, inheritance, and classes. Students go on to address advanced topics such as stacks, queues, advance recursion, linked lists, binary trees, and advanced sorting, and searching topics in preparation for and alignment with college-level computer science. *This course may count as a foreign language OR technology credit under the Foundations High School graduation plan but not both.*

3300AP AP Computer Science Principles
Grades: 9 - 12 A3580300
Prerequisite: Algebra I 1 credit
The AP Computer Science Principles course will introduce you to the essential ideas of computer science and show how computing and technology can influence the world around you. Students will creatively address real-world issues and concerns while using the same processes and tools as artists, writers, computer scientists, and engineers to bring ideas to life. *This course may count as a foreign language OR technology credit under the Foundations High School graduation plan but not both.*

3301AP AP Computer Science Block A
3302AP AP Computer Sceince Block B
Grades: 10 – 12 A3580110/A3580120
Prerequisite: Algebra I 2 credits
Rec. Prerequisite: PAC Computer Science I or AP Computer Science Principles
Computer Science AP is a programming course designed to cover the Advance Placement (AP) Computer Science AP Exam topics. The curriculum will build upon the topics addressed in Computer Programming I. Object-oriented components in the language of Java will be stressed. Other topics include decision making, looping, arrays, inheritance, interfaces, abstract classes, Java collections, sorting, searching, and the AP Case Study. ***Block A will count as an advanced math course & Block B will count as a LOTE credit under the Foundations High School graduation plan.***

Social Studies Department Course Descriptions

1510 World Geography Studies
Grades: 9-10 **03320100**
Prerequisites None **1 credit**
This course will concentrate on the culture, economics, and topography of various regions around the world.

1510Q/GT PAC World Geography Studies
Grades: 9-10 **03320100**
Prerequisites None **1 credit**
This course will focus on developing the students' study skills, critical thinking abilities, and geographic knowledge to prepare them for success in their subsequent AP courses. Students will use their geographic knowledge to analyze current events around the world.

1512 World History Studies
Grade: 9-10 **03340400**
Prerequisites: None **1 credit**
This course is a survey of major events and civilization from prehistoric man to the 20th century.

1512Q/GT PAC World History
Grade: 10 **03340400**
Prerequisites: None **1 credit**
This course covers the content of world history and expands the concepts and skills through in-depth study units. The student will relate happenings of the past to current events and from these events; he/she will predict future trends. World History PAC will focus on developing the students' study skills, critical thinking abilities, and historical knowledge to prepare them for success in their subsequent AP courses.

1512AP/GT AP World History
Grade: 9-10 **A3370100**
Rec. Prerequisite: PAC World Geography **1 credit**
In AP World History: Modern, students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation. A college board AP exam will be offered at the end of this course. Requires a summer reading assignment.

1514 United States History
Grade: 11 **03340100**
Prerequisites: World Geography or World History **1 credit**
This course is an in-depth study of the development of the United States from reconstruction to the present. Topical and chronological approaches are used to emphasize cause and affect relationships.

1514AP/GT AP United States History
Grade: 11 **A3340100**
Prerequisites: World Geography or World History **1 credit**
This course covers the content of United States History, and expands the concepts and skills through in-depth study units, predicting future trends, and studying current topics. The Advanced Placement Program in United States History is designed to prepare students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. College-level materials will be used in this class. A College Board AP U.S. History exam will be given at the conclusion of this course. Requires a summer reading assignment.

1514DC American History DC (HIST 1301)
Grades: 11-12 **03340100**
Prerequisite: World Geography or World History & College Req. **.5 credit**
A survey of the United States from the era of exploration to the present time. It extends through the period of Reconstruction (1877). *Students enrolled in this course will be required to take the U.S. History End of Course exam their junior year.*

1515DC American History DC (HIST 1302)
Grades: 11-12 03340100
Prerequisite: American History DC 1301 .5 credit
A survey of the United States from the era of exploration to the present time. It includes the period following Reconstruction to the present. *Students enrolled in this course will be required to take the U.S. History End of Course exam their junior year.*

1516 United States Government
Grade: 12 03330100
Prerequisites: World History or World Geography & U.S. History .5 credit
This course is designed to acquaint the student with the governmental and political processes at the national, state, and local levels; resources and skills of citizens, public officials and governments; and interaction among citizens, political parties, public officials, and decision making, habits and development of their critical thinking and communication skills.

1516AP/GT AP US Government & Politics
Grade: 12 A3330100
Prerequisites: World History or World Geography & U. S. History .5 credit
This is an introductory college-level course in U.S. government and politics. Students cultivate their understanding of U.S. government and politics through analysis of data and text-based sources as they explore topics like constitutionalism, liberty and order, civic participation in a representative democracy, competing policy-making interests, and methods of political analysis. A College Board AP government exam will be given at the end of the course.

1516DC U. S. Government DC (GOVT 2305)
Grade: 12 03330100
Prerequisite: World Geography or World History & American History DC or US History & Del Mar Requirements .5 credit
Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights.

1517DC U.S. Government DC (GOVT 2306)
Grade: 12 03330100
Prerequisite: U.S. Government DC 2305 .5 credit
Origin and development of the Texas constitution, structure and powers of state and local government, federalism and inter-governmental relations, political participation, the election process, public policy, and the political culture of Texas.

1618 Economics/Free Enterprise
Grade: 12 03310300
Prerequisites: World Geography or World History & U. S. History .5 credit
This course explores the theoretical and practical aspects of the economics and the free enterprise system.

1618AP/GT AP Macro Economics
Grade: 12 A3310100
Prerequisites: World History or World Geography & US History .5 credit
This is a college-level course that introduces students to 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. A College Board AP exam will be given at the end of the course.

1618DC Principles of Economics DC (ECON 2301)
Grade: 12 03310300
Prerequisite: World Geography or World History & American History DC or US History & Del Mar Requirements .5 credit
Economics of modern industrial society. Determinants of national income, economic stability and growth, money and banking; fiscal policy, business organization and international trade.

1520AP/GT AP European History
Grade: 9-12 **A3340200**
Rec. Prerequisites: PAC World Geography or PAC World History **1 credit**

In AP European History, students investigate significant events, individuals, developments, and processes from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world, economic and commercial development, cultural and intellectual development, states and other institutions of power, social organization and development, national and European identity, and technological and scientific innovations.

1524 Psychology
Grades: 10-12 **03350100**
Prerequisites: None **.5 credit**

This course introduces the scientific study of development of the individual and the personality. Emphasizes human growth and development, principles of learning, processes of thinking, personality theories, behavioral disorders and treatment, and interpersonal relationships. Students utilize effective collection and analysis of data.

1524DC Introduction to Psychology DC (PSYC 3201)
Grades: 10-12 **03350100**
Prerequisite: Del Mar Req. **.5 credit**

Scientific method of psychology; psychological phenomena and basic processes necessary to understanding human behavior. Emphasis on heredity-environment; personality development, motivation, emotion, attitudes and intelligence. Prerequisite to all other courses in Psychology.

1525 Sociology
Grades: 10-12 **03370100**
Prerequisites: None **.5 credit**

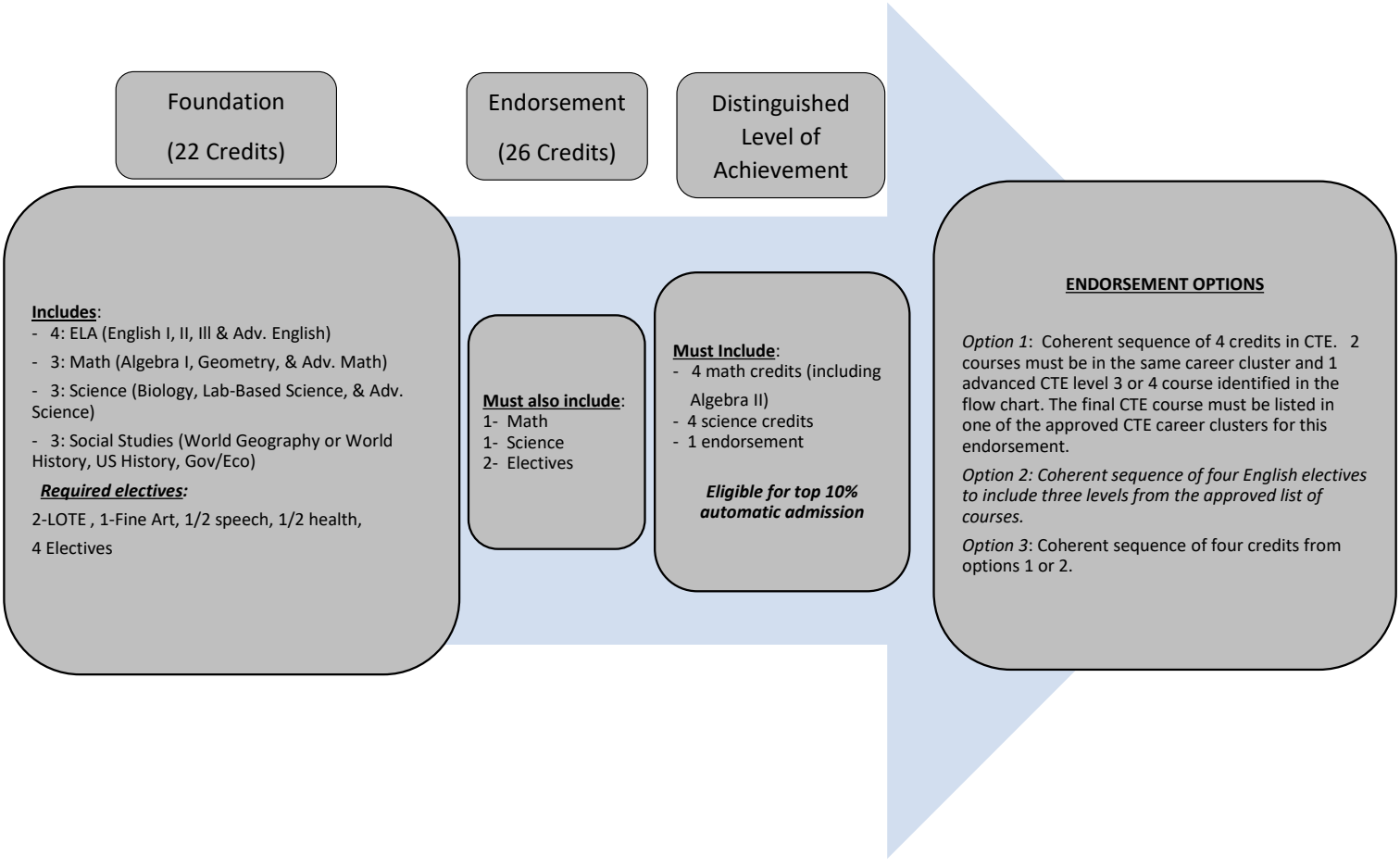
This course introduces scientific methods used to study human relationships within small groups and society in general. Includes the study of the history and systems of sociology, cultural and societal norms, and societal institutions. Stresses the importance of communication to individual and group activities. Explores cooperation and conflict in group dynamics.

1525DC Principles of Sociology DC (SOCI 1301)
Grades: 10-12 **03370100**
Prerequisite: Del Mar Req. **.5 credit**

Study of the nature of human societies, social processes, social interaction, groups, culture, institutions and social change.

Business & Industry

- Agriculture, Food and Natural Resources
- Arts, Audio Video Technology and Communications
- Accounting and Financial Services
- Manufacturing/Welding
- Business Management and Administration
- English Electives in public speaking, debate, advanced broadcast journalism, advanced journalism including newspaper and yearbook



Agriculture, Food and Natural Resources

Participation in Agricultural Science and Technology Education will help to provide foundational skill development for fast growing careers such as:

Welder
Agricultural Engineer
Fish and Game Warden
Horticulturist
Veterinary Technician
Agricultural Grader & Inspector
Farm & Ranch Manager
Environmental Scientist
Agricultural & Food Science Technician
Agricultural Inspector
Equipment Operator
Florist

EXTRACURRICULAR ACTIVITY: FFA activities are an integral part of the Agricultural Science and Technology Education program. Opportunities for developing skills in leadership, cooperation, and citizenship are provided through extension of classroom/laboratory learning experiences by membership and participation in FFA.

4500 Principles of Agricultural, Food, and Natural Resources*
Grades: 9-12 **13000200**
Prerequisite: None **1 credit**
Introduction for all Agricultural Science and Technology courses. This course will prepare students for careers in agriculture, food, and natural resources. This course allows students the opportunity to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations.

4531 Floral Design*
Grades: 9-12 **13001800**
Prerequisite: None **1 credit**
This course will prepare students for careers in the field of floral design and careers related to horticultural systems. This course 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. *This course satisfies the fine arts credit needed for graduation.*

4534 Advanced Floral Design*
Grades: 10-12 **N1300270**
Prerequisite: Floral Design **1 credit**
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.

4510 Agricultural Mechanics and Metal Technologies*
Grades: 10-12 **13002200**
Rec. Prerequisite: Principles of Ag **1 credit**
This course is designed to prepare students for careers in agricultural power, structural, and technical systems. This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques.

4511 Agricultural Structures Design and Fabrication*

Grades: 11-12 **13002300**

Prerequisite: Ag Mechanics and Metal **1 credits**

This course is designed to prepare students for careers in mechanized agricultural and technical systems. This course is designed to develop an understanding of agricultural facilities design and fabrication.

4512 Agricultural Power Systems*

Grades: 11-12 **13002400**

Rec. Prerequisite: Principles of Ag & Ag Mechanics and Metal **2 credit**

This course is designed to prepare students for careers in agricultural power, structural, and technical systems. This course is designed to develop an understanding of power and control systems as related to energy sources, small and large power systems, and agricultural machinery.

4521 Wildlife, Fisheries, and Ecology Management*

Grades: 9-12 **13001500**

Prerequisite: Principles of Ag or Concurrent Enrollment **1 credit**

This course will prepare students for careers in the field of environmental and natural resource systems. 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. This course also is designed to develop students' understanding of rangeland ecosystems and sustainable forage production.

4532 Horticulture Science*

Grades: 10-12 **13002000**

Rec. Prerequisite: Principles of Ag **1 credit**

Introduction to the many facets of horticulture in Texas and the United States including organization, history and nature of the industry; discussion of professional development and identification of career opportunities. We will also cover the structure, growth and development of horticultural plants from a practical and scientific approach; environmental effects, basic principles of propagation, greenhouse and outdoor production, nutrition, pruning and chemical control of growth, and pest control.

4503 Veterinary Medical Application*

Grades: 11-12 **13000600**

Prerequisite: Livestock Production **1 credit**

Rec. Prerequisite: Principles of Ag

This course will prepare students for careers in the field of animal science and equine science. This course will allow students an opportunity to learn, reinforce, apply, and transfer knowledge, skills, and technologies in a variety of settings.

4502 Advanced Animal Science*

Grades: 11-12 **13000700**

Prerequisite: Livestock Production, Geometry, Biology, Chemistry or IPC **1 credit**

Rec. Prerequisite: Vet Medical Application & Principles of Ag

This course will prepare students for careers in the field of animal science. This course will allow the students an opportunity to acquire skills related to animal systems, interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction applies scientific and technological aspects of animal science through field and laboratory experiences. *This course satisfies a science credit requirement for students on the Foundation High School Program.*

4533 Advanced Plant and Soil Science*

Grades: 11-12 **13002100**

Prerequisite: Biology, IPC/Chem/Physics & one Ag Career Cluster Course **1 credit**

This course is designed to prepare students for careers in the food and fiber industry. Students will learn, reinforce, apply, and transfer their knowledge in a scientific setting where they will learn about the natural world. Investigations, laboratory practices, and field exercises will be used to develop an understanding of current plant and soil science. *This course satisfies a science credit requirement for students on the Foundation High School Program.*

4501 Livestock Production*
Grade: 10-12 **13000300**
Prerequisite: none **1 credit**
Rec. Prerequisite: Principles of Ag
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. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

4535 Practicum in Agriculture, Food, & Natural Resources*
Grade: 12 **13002500**
Prerequisite: One course from AFNR **2 credits**
This course is designed to give students supervised practical knowledge and skills related to the workplace, and develop knowledge and skills regarding career opportunities, entry requirements and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply and transfer their knowledge and skills and technologies in a variety of settings, application of knowledge and skills.

Manufacturing

4653 Welding I
Grade: 10-12 **13032300**
Rec. Prerequisites: Algebra I & Geometry **2 credits**
Students will be introduced to basic welding processes. Topics include industrial safety practices, hand tool and power machine use, measurement, welding power sources, and introduction to welding codes and standards. Students will evaluate the function and application of tools, equipment, technologies, and materials used in welding. Students will train in shielded metal arc welding and gas tungsten arc welding and integrate knowledge and skills with hands-on experiences. Through this course, students can earn AWS D9.1 Sheet Metal Fillet Weld Certification.

4655 Welding II
Grade: 11-12 **13032400**
Rec. Prerequisites: Algebra I & Geometry **2 credits**
Welding II builds on the knowledge and skills developed in Welding I. Students will develop advanced welding concepts and skills as related to personal and career development. Students will integrate academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Through this course, students can earn AWS D1.1 Groove Welder with Steel Backing and AWS D1.1 Groove Welder with Open Root.

*Any student enrolled in Agricultural Science and Technology must maintain a Supervised Agricultural Experience Program (SAEP) record book. SAEP records (record books) must be on file to document each student's successful completion of this requirement.

Arts, A/V Technology and Communications

3600 Principles of Arts, Audio/Video Technology and Communications
Grade: 9-12 **13008200**
Prerequisite: None **1 credit**
Introduction to Careers in the Arts, Audio/Video Technology, and Communications career cluster require, in addition to creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication. 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.

3601 Audio Video Production I
Grades: 10 - 12 **1300850**
Rec. Prerequisite: Principles of A/V **1 credit**
Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on pre-production, and post-production audio and video activities. These students participate in Calallen TV.

3602 Audio/Video Production II
Grades: 10-12 **3008600**
Prerequisite: A/V Pro I **1 credit**
Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, and post-production activities. This course may be implemented in an advanced audio format or an advanced format, including both audio and video.

3603 Audio/Video Production II & Lab
Grades: 10-12 **13008610**
Prerequisite: Concurrent Enrollment in A/V Pro II & Teacher Approval **2 credits**
Students will be expected to develop an advanced understanding of the industry with a focus on pre-production and post-production products. Through diverse forms of storytelling and production, students will exercise and develop creativity, intellectual curiosity, and critical-thinking, problem-solving, and collaborative skills.

3604 Practicum in Audio/Video Production
Grades: 12 **13008700**
Prerequisite: Audio/Video Production II & Lab & Teacher approval **2 credits**
Students will be expected to develop an advanced understanding of the industry with a focus on pre-production and post-production products. Through diverse forms of storytelling and production, students will exercise and develop creativity, intellectual curiosity, and critical-thinking, problem-solving, and collaborative skills.

3612 Graphic Design & Illustration I
Grades: 10-12 **13008800**
Rec. Prerequisites: Principles of A/V **1 credit**
Students will explore image editing, graphic design, and digital color through the use of Adobe Photoshop and Adobe Illustrator. During the first half of the course students will focus on using Illustrator to explore typography, layout, advertising and logo design. The second semester is dedicated to Photoshop where students will learn basic photo manipulation tools and techniques as well as color correction, cropping, filters and adjustments, composite imaging, and photo restoration.

3614 Graphic Design & Illustration II
Grades: 11-12 13008900
Prerequisites: Graphic Design I 1 credit
Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Students will be expected to develop an advanced understanding of the industry & skills.

3615 Practicum in Graphic Design & Illustration
Grade: 12 13009000
Prerequisites: Graphic Design II & Teacher Approval 2 credits
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.

3610 Video Game Design
Grades: 9-12 13009970
Rec. Prerequisite: Principles of A/V 1 credit
This course will allow students to explore one of the largest industries in the global marketplace and the new emerging careers it provides in the field of technology. Students will learn gaming, computerized gaming, evolution of gaming, artistic aspects of perspective, design, animation, technical concepts of collision theory, and programming logic. Students will participate in a simulation of a real video game design team while developing technical proficiency in constructing an original game design.

3613 Digital Design and Media Production
Grades: 9-12 03580400
Prerequisites: None 1 credit
Digital Design and Media Production students demonstrate knowledge and appropriate use of hardware components, software programs, and their connections. The student will use a variety of strategies to acquire information from electronic resources in a variety of formats, evaluate the required information, find solutions to problems, and use research skills and electronic communication to create new knowledge. *This course satisfies the technology credit needed for graduation.*

1240 Professional Communications
Grades: 9-12 13009900
Prerequisites: None .5 credit
Students enrolled in Professional Communications will be expected to identify, analyze, develop, and evaluate communication skills needed for professional and social success in interpersonal situations, group interactions, and personal and professional presentations. *This course satisfies the speech credit needed for high school graduation.*

1230DC Oral Communications DC (SPCH 1315)
Grades: 10-12 03241400
Prerequisites: Must meet Del Mar req. .5 credit
Theory and practice of speech communication in interpersonal, small group, and public speaking.
This course satisfies the speech credit needed for high school graduation.

Public Speaking
1261 I 03240900
1262 II 03241000
1263 III 03241100
Grades: 9-12
Prerequisites: Prior Speech Class 1 credit
Want to be an attorney? This class is for you. These courses cover the concepts of organization of ideas, preparation and presentation, delivery skills, listening skills, and evaluation skills. This class is individually designed for those students who will compete in speech and debate tournaments throughout the year. It is strongly suggested that all students who wish to compete take this course. Extra rehearsals and extra performances are mandatory as part of the student's grade. Students MUST compete in speech tournaments throughout the year. Competitive mock trial is for you. Tournament participation must be approved by the debate and speech director. Students will become members of TFA and UIL, and could qualify for the National Forensic League National Honor Society.

Oral Interpretation
1251 I 03240200
1252 II 03240300
1253 III 03240400
Grades: 9-12
Prerequisites: None 1 credit
These courses require students who are self motivated and demonstrate self discipline. Students use this time to read, research, cut and rehearse pieces for competition. Students who are interested in competing in drama events such as Humorous and Dramatic Interpretation and Duet Acting need to be enrolled in this class. All students in the competition class will be required to attend speech/drama/debate tournaments

Business, Marketing and Finance

Participation in Business Education will help to provide foundational skill development for fast growing careers such as:

- Computer Systems Analyst
- Securities and Financial Services Agent
- Advertising, Marketing and Public Relation Manager
- Medical Secretary

EXTRACURRICULAR ACTIVITY: Student organizations are available for those students enrolled in Business Education. Business Professionals of America (BPA) contributes to the advancement of leadership, citizenship, personal growth, academic, and technological skills. Competitive events enhance career/job preparation, workplace competencies, self confidence, and the instructional program.

3400 Principles of Business, Marketing & Finance
Grades: 9-11 **13011200**
Prerequisite: None **1 credit**
Students gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. The course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing and finance. *This course satisfies the technology credit needed for graduation.*

3401 Business Information Management I
Grades: 9 -12 **1031140**
Rec. Prerequisite: Principles of Business **1 credit**
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 post secondary 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.

3403 Business Information Management II
Grades: 10 – 12 **13011500**
Prerequisite: BIM I **1 credit**
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 post secondary education. Students apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, formulate a database, and make an electronic presentation using appropriate multimedia software.

3404 Accounting I
Grades: 10-12 **13016600**
Rec. Prerequisite: Principles of Business **1 credit**
Students investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students reflect on this knowledge as they engage in the process of recording, classifying, summarizing, analyzing and communicating accounting information. Students formulate and interpret financial information for use in management decision making.

3405 Accounting II
Grades: 11-12 **13016700**
Prerequisite: Accounting I **1 credit**
Students continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal and ethical factors. Students reflect on this knowledge as they engage in various managerial and cost accounting activities. Students formulate and interpret financial information for use in management decision making. *This course satisfies a math credit requirement for students of the Foundation High School Program.*

3471 Financial Literacy
Grades: 10 - 12 **03380082**
Prerequisite: None **.5 Credit**
This course is designed to alert, inform, and educate students in concepts of personal finance and money management. Students will begin to develop the skills and strategies that promote personal and financial responsibility related to financial planning, savings, investment, and charitable giving in the global economy. Effective money management is a disciplined behavior. It is difficult to master, and much easier when learned earlier in life. This course will start students on a path toward being in control of their financial futures. Five broad topics will be the foundation of the course: college and career planning, money management, savings and investing, income, and spending. The course will teach students to search and assess college and career opportunities, identify and prioritize their personal money management goals, develop personal spending and savings plans, comprehend the impact of time on the value of money, understand the cost of using credit, and protect assets.

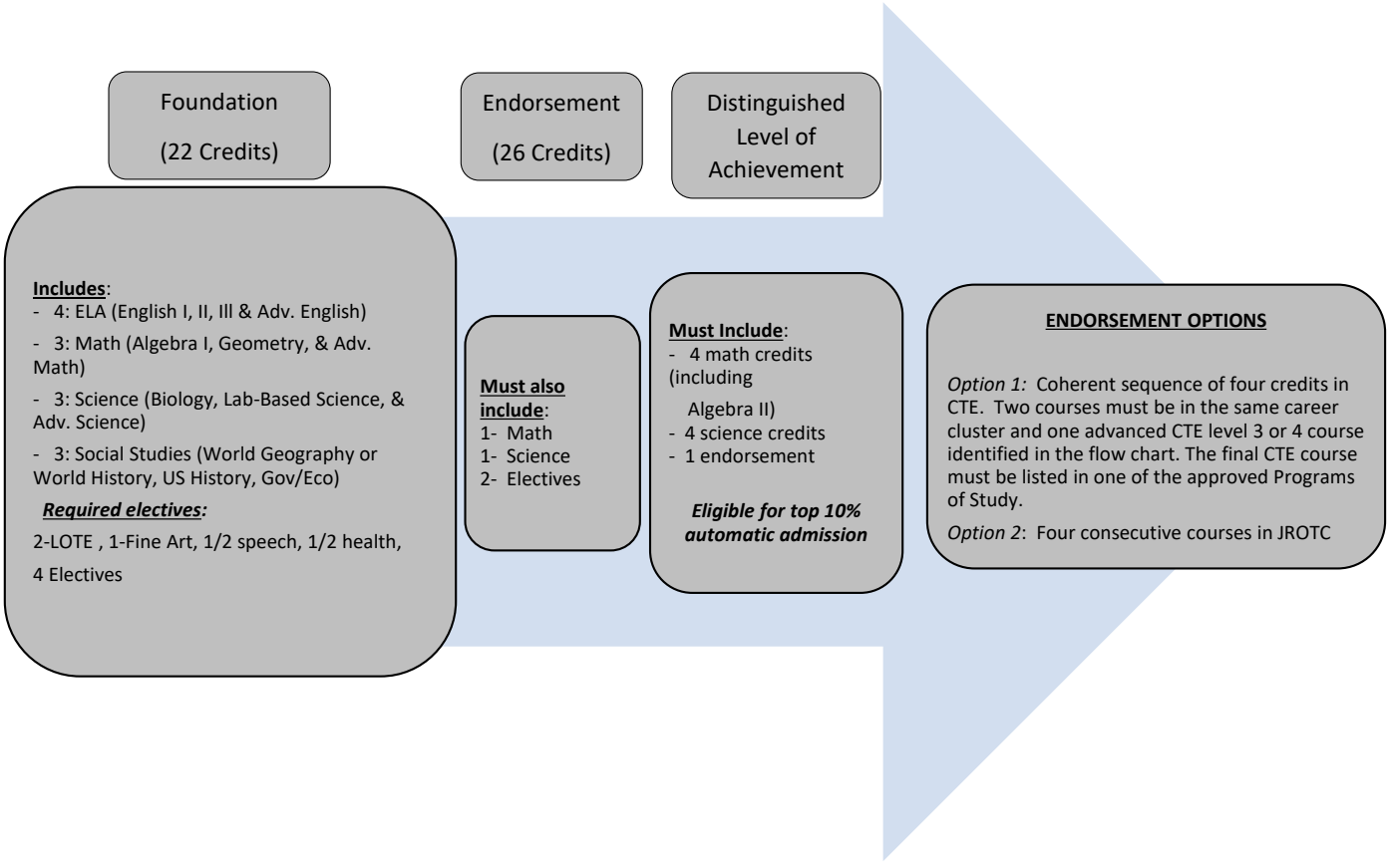
3406 Financial Mathematics
Grades: 10 - 12 **13018000**
Prerequisite: Algebra I **1 credit**
Rec. Prerequisite: Principles of Business
Financial Mathematics is a course about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors. *This course satisfies a math credit requirement for students of the Foundation High School Program.*

3407 Career Preparation I
Grades: 11-12 **12701300**
Prerequisites: None **2 credits**
This course provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. Students are taught employability skills, which include job-specific applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

3408 Career Preparation II
Grades: 12 **12701400**
Prerequisites: Career Prep I **2 credits**
This course develops essential knowledge and skills through classroom technical instruction and on-the-job training in an approved business and industry training area. Students will develop skills for lifelong learning, employability, leadership, management, work ethics, safety and communication as a group; however, each student will have individual training plan that will address job-specific knowledge and skills.

Public Service

- Human Services
- Law, Public Safety, Corrections and Security
- Health Science
- Education and Training
- Junior Reserve Officer Training Corps (JROTC)



Human Services

Participation in Human Services Education will help to provide foundational skill development for fast growing careers such as:

- Teacher
- Career Administrator
- Counselor
- Clinical Psychologist
- Social Worker
- Dietician
- Nutrition Guidance

EXTRACURRICULAR ACTIVITY: Family, Career, and Community Leaders of America (FCCLA) is the student organization which provides opportunities for personal growth and leadership development and community service. FCCLA members develop skills for life through character development, creative critical thinking, interpersonal communications, practical knowledge, and career preparation.

3500 Principles of Human Services
Grades: 9-12 **13024200**
Prerequisites: None **1 credit**

This laboratory course will enable students to investigate careers in the human services career cluster, job search skills, paychecks and budgeting, skills for living on their own, health and nutrition, and basic food preparation.

3501 Interpersonal Studies
Grades: 9-12 **13024400**
Rec. Prerequisites: Principles of Human Services or Principles of Health Science or Principles of Education **.5 credit**

Interpersonal Studies examines how the relationships between individuals and among family members significantly affect the quality of life. Students use knowledge and skills in family studies and human development to enhance personal development, foster quality relationships, promote wellness of family members, manage multiple adult roles, and pursue careers related to counseling and mental health services.

3502 Lifetime Nutrition and Wellness
Grades: 9-12 **13024500**
Rec. Prerequisites: Biology & Principles of Human Services **.5 credit**

This laboratory course allows students to use principles of lifetime wellness and nutrition to help them make informed choices in their diet that will promote wellness, as well as, careers related to hospitality and tourism, education and training, human services, and health sciences. Basic cooking preparation skills are also taught.

3503 Child Development
Grades: 10-12 **13024700**
Rec. Prerequisite: Biology or Concurrent enrollment **1 credit**

This technical laboratory course 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 the care and education of children.

1240 Professional Communications
Grades: 9-12 **13009900**
Prerequisites: None **.5 credit**
Students enrolled in Professional Communications will be expected to identify, analyze, develop, and evaluate communication skills needed for professional and social success in interpersonal situations, group interactions, and personal and professional presentations. *This course fulfills the district speech requirement for high school graduation.*

3506 Family and Community Services
Grades: 10-12 **13024900**
Prerequisite: Principles of Human Services **1 credit**
Family and Community Services is a laboratory-based course designed to involve students in realistic and meaningful community-based activities through direct service or service-learning experiences. Students are provided opportunities to interact with and provide services to individuals, families, and the community through community volunteer services. Emphasis is placed on developing and enhancing organizational and leadership skills and characteristics.

3407 Career Preparation I
Grades: 11-12 **12701300**
Prerequisites: None **2 credits**
This course provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. Students are taught employability skills, which include job-specific applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

Education and Training

3510 Principles of Education and Training
Grades: 9-12 **13014200**
Prerequisites: None **1 credit**
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 and educational and career information to analyze various careers within the education and training career cluster. Students will also gain an understanding of the basic knowledge and skills essential to careers within the education and training career cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.

3500 Principles of Human Services
Grades: 9-12 **13024200**
Prerequisites: None **1 credit**
This laboratory course will enable students to investigate careers in the human services career cluster, job search skills, paychecks and budgeting, skills for living on their own, health and nutrition, and basic food preparation.

3503 Child Development
Grades: 10-12 **13024700**
Rec. Prerequisite: Biology or Concurrent Enrollment **1 credit**
This technical laboratory course 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 the care and education of children

3511 Instructional Practices
Grades: 11-12 **13014400**
Rec. Prerequisites: Principles of Ed & Child Development **2 credits**
Instructional Practices in Education and Training is a field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators or trainers in direct instructional roles with elementary, middle school, and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

3512 Practicum in Education & Training
Grade: 12 **13014500**
Prerequisite: Instructional Practices **2 credits**
Second year students of Instructional Practices in Education and Training.

3407 Career Preparation I
Grades: 11-12 **12701300**
Prerequisites: None **2 credits**
This course provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. Students are taught employability skills, which include job-specific applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

Health Science

Health Science Technology is a coherent sequence of courses designed for students to gain knowledge and skills needed by healthcare professionals. Students will benefit by understanding the relationship between a strong, academic foundation with health career emphasis and will gain hands-on clinical experience utilizing the knowledge and skills developed during the course of study. The health science career concentration offers vocational credit with an opportunity to receive hours toward a Vocational Certification upon completion of the three-year program.

Participation in Health Science Technology Education will help provide foundational skill development for fast growing careers such as:

- Registered Nurse
- Physician
- Medical and Health Service Manager
- Pathologist
- Radiologist

EXTRACURRICULAR ACTIVITY: Opportunities for leadership and citizenship development are available through student membership and participation in Health Occupations Students of America (HOSA). This student organization provides social and work skills interaction with health team professionals who help guide students in the selection of future health careers, while instilling an attitude of pride and professionalism.

4000 Principles of Health Science
Grades: 9 - 10 **13020200**
Prerequisites: None **1 credit**
This class will provide classroom instruction to include human anatomy, medical terminology and basic skills. Students will learn work ethics necessary to work in the professional field. Membership and participation in HOSA is encouraged. *This course satisfies the health credit required for graduation.*

4001 Medical Terminology
Grades: 9-12 **13020300**
Prerequisites: None **1 credit**
This course uses anatomy and physiology of the human body to teach basic medical terminology. This course is required with Health Science to receive articulated credit of the college class. This course teaches prefixes, suffixes and combining forms of anatomical terminology as well as basic human anatomy.

4003 Anatomy & Physiology
Grades: 11-12 **13020600**
Prerequisites: Biology & Chemistry or IPC or Physics **1 credit**
Rec. Prerequisite: Medical Terminology
This course includes the in-depth study of the human body. It covers from the cellular level to the systemic level. All body systems are covered. This course is very demanding in the amount of reading and understanding of medical language and terminology. This course is recommended for students entering into the Health Science fields. *This course counts as a fourth year science.*

4014 Medical Microbiology
Grade: 11-12 **13020700**
Prerequisites: Biology & Chemistry **1 credit**
Rec. Prerequisite: Principles of Health Science
This course is designed to explore the microbial world. Studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms drug resistant organisms, and emerging diseases. Students must meet the 40% laboratory and fieldwork requirement. *This course satisfies a science credit requirement for students on the Foundation High School Program.*

4002 Health Science Clinical/ Health Science Theory (Rotations)
Grades: 10 - 12 **13020410**
Prerequisites: Principles of Health Science, Biology & must be 16 years of age & complete application **2 credits**
Rec. Prerequisite: Medical Terminology
This course will have limited enrollment. Students will participate in a two-hour block of classroom instruction and three - four days a week hospital and nursing facility rotations with health care professionals. Due to the smaller amount of class time, this is a project oriented class with a lot of independent research. Personal expenses required for the course are the responsibility of the student. Expenses include, but are not limited to, hospital approved scrubs, flu shot, TB test and drug screening. All shots and tests results must be completed prior to October in preparation for hospital rotation. Membership and participation in HOSA will be necessary. ***Students must have A lunch.***

4006 Pharmacology
Grades: 12 **13020950**
Prerequisites: Chemistry, Biology, & at least one credit in a Level 2 or higher course from the health science career cluster **1 credit**
This occupationally specific course is designed to provide the knowledge and skills necessary for employment in the health care industry. Upon completion of this course students will be eligible to take the Texas State Board Certification Exam for Pharmacy Technicians. The test cannot be taken until after graduation or no more than 60 days prior to graduation. This is a fast paced-course requiring computer skills and memorization in addition to logic and persistence. *This course is an AP weighted course. Additional expenses may apply.*

4004CE EKG/Phlebotomy
Grades: 11-12 **13020400**
Prerequisites: Biology **1 credit**
Semester 1 (EKG): This course will target students who are interested in learning the fundamentals of becoming a cardiovascular technician. Fundamentals of cardiovascular anatomy and physiology. Includes basic electrocardiography procedures, interpretation of basic dysrhythmias, and appropriate treatment modalities. This program will also help prepare students for the Electrocardiography Technician National Certification exam.
Semester 2: Phlebotomy Technician-
Skill development and performance through a variety of blood collection methods using proper techniques and universal precautions. Includes vacuum collection devices, syringes, capillary skin puncture, butterfly needles and blood culture. Specimen collection is on adults. Emphasis on infection prevention, proper patient identification, labeling of specimens, quality assurance, specimen handling, processing, and accessioning. Topics include professionalism, ethics, and medical terminology. Students will be required to perform venipunctures on each other during lab sessions.

4005CE Basic Medical Assistant (CMA) & Patient Care Technician (PCT)
Grades: 12 **13020500**
Prerequisites: EKG/Phlebotomy **2 credits**
Semester 1 (CMA):- Medical assistants work alongside physicians and nurses, mainly in outpatient or ambulatory care facilities, such as medical offices and clinics. Medical assistants are cross-trained to perform administrative and clinical duties. Administrative duties include welcoming patients, updating and filing patient medical records, coding and filling out insurance forms, and scheduling appointments. Clinical duties include preparing patients for examination, performing basic laboratory tests and assisting the physician during exams.
Semester 2 (PCT): Training, skills, and knowledge needed to work in a hospital setting. Training includes basic patient care, clinical procedures, patient safety, and routine office-lab procedures such as electrocardiography procedures and the collection of blood specimens. Prerequisites: Electrocardiography Certification and Phlebotomy Certification.

Law and Public Service

3000 Principles of Law, Public Safety, Corrections, & Security
Grades: 9-12 13029200
Prerequisites: None 1 credit
Introduces students to professions in law enforcement, security, corrections, fire and emergency management services. Students will examine roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, security, and corrections.

3001 Law Enforcement I
Grades: 10-12 13029300
Prerequisites: Principles of Law 1 credit
This course is an overview of the history, organization, and functions of local, state, and federal law enforcement. This course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, and the classification and elements of crime.

3002 Law Enforcement II
Grades: 11-12 13029400
Prerequisites: Law Enforcement I 1 credit
This course provides the knowledge and skills necessary to prepare for a career in law enforcement. This course includes the ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony.

3003 Practicum in Law, Public Safety, Corrections & Security
Grade: 12 13030100
Prerequisites: Law Enforcement II 2 credits
This course is designed to give students supervised practical application of previously studied knowledge and skills in law, public safety, corrections and security.

3004 Forensic Science
Grades: 11-12 13029500
Prerequisites: Biology & Chemistry 1 credit
Rec. Prerequisite: Any Law Enforcement Course
This course is a course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensic science. *This course satisfies a science credit requirement for students on the Foundation High School Program.*

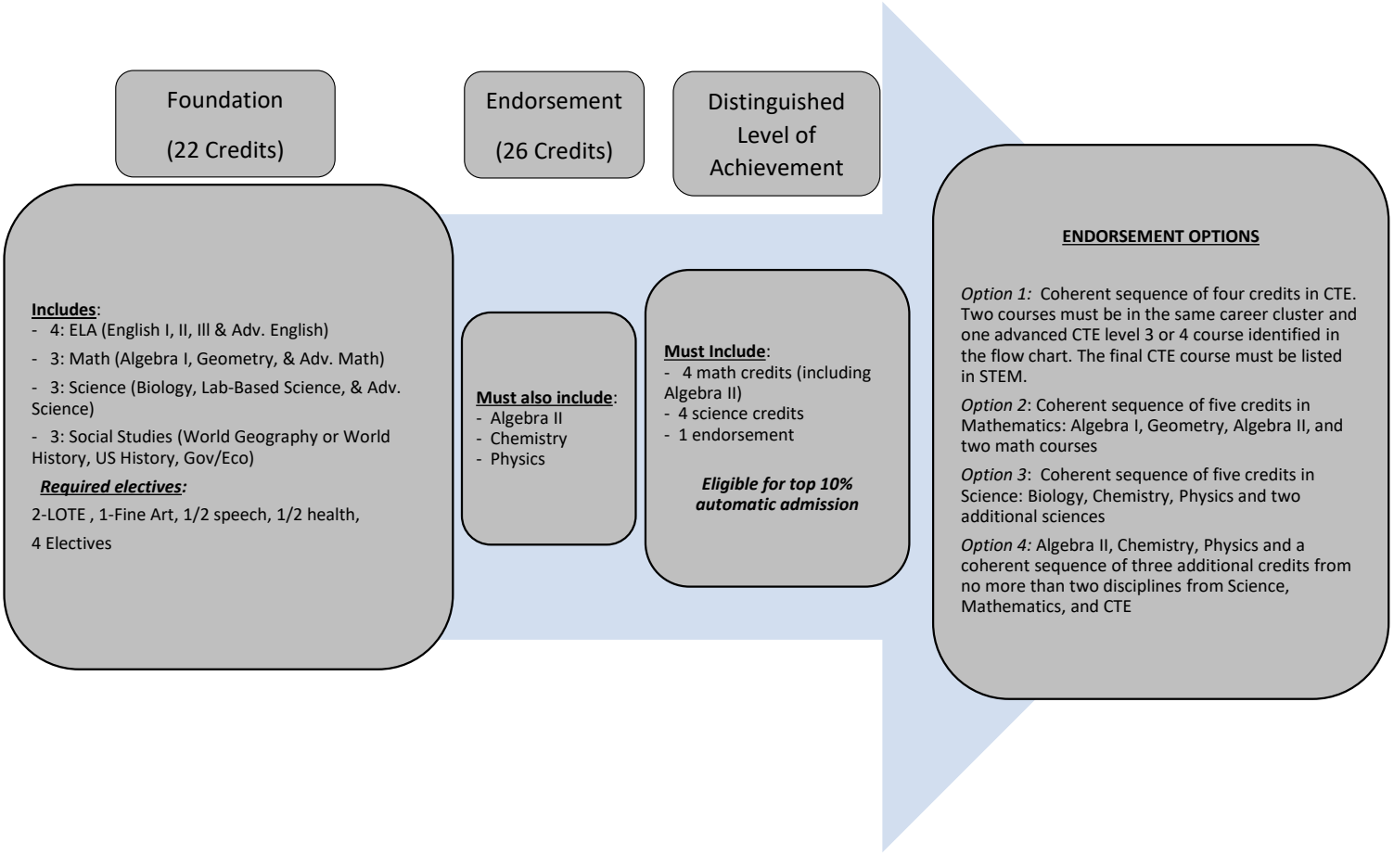
4003 Anatomy and Physiology
Grades: 11-12 13020600
Prerequisites: Biology & Chemistry or IPC or Physics 1 credit
Rec. Prerequisite: Medical Terminology
This course includes the in-depth study of the human body. It covers from the cellular level to the systemic level. All body systems are covered. This course is very demanding in the amount of reading and understanding of medical language and terminology. This course is recommended for students entering into the Health Science fields. *This course counts as a fourth year science.*

6001 ROTC I PES00004
6002 ROTC II 03160200
6003 ROTC III 03160300
6004 ROTC IV 03160400
Grades: 9-12
Recommended: None 1 credit

ROTC serves as the foundation for the development of "fellowship" skills. The goals of the ROTC program are explained, study skills are developed, Military Customs and Courtesies are demonstrated, and rudimentary marching skills are started. Performance requirements are limited to preparation and participation in the Annual Military Inspection. The commencement of leadership and command skills begin through involvement in Unit competitive teams. Students will learn to make informed decisions based on participation in Leadership Academies and Mini-Boot Camps. This course is taught in conjunction with Tuloso-Midway ISD and students are bussed to the TM High School campus. *This course satisfies a PE credit requirement for students on the Foundation High School Program.*

Science, Technology, Engineering & Math

- Career and Technical Education (CTE) courses related to STEM
- Mathematics
- Science



Engineering Course Descriptions

3200 PLTW Introduction to Engineering Design
Grades: 9-10 **N1303742**
Prerequisite: None **1 credit**
Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software, and use an engineering notebook to document their work.

3201 PLTW Engineering Science
Grades: 10-12 **13037500**
Prerequisite: Algebra I, Biology, & Any 1 STEM CTE course **1 credit**
Rec. Prerequisite: Geometry
This engineering course is designed to expose students to some of the major concepts and technologies that they will encounter in a postsecondary program of study in any engineering domain. Students will have an opportunity to investigate engineering and high-tech careers. Students will employ science, technology, engineering, and mathematical concepts in the solution of real-world challenge situations. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. This course satisfies a high school science graduation requirement. Students shall be awarded one credit for successful completion of this course. *This course can count as a science credit.*

3271 Engineering Design & Problem Solving
Grades: 11-12 **13037300**
Prerequisite: Engineering Science & Geometry **1 credit**
This course has the components of science and engineering from the following: problem identification, investigation design, data collection, data analysis, and presentation of the conclusions. All of the components are integrated with the career and technical education. There is an emphasis in helping students gain knowledge and skill in research, problem solving, conceptual models & the engineering and scientific process.

3203CE Computer Aided Drafting (CAD) I Certification in AutoCAD & REVIT
Grades: 10-12 **13032900**
Prerequisite: Algebra I **1 credit**
Students enrolled in this course will demonstrate knowledge and skills using multiple software applications and tools necessary to produce and present computer aided drawings, solid model renderings, and prototypes. Students will use a variety of computer software to learn basic CAD skills in 2D and 3D formats. The first semester will focus on AutoCAD with an opportunity for students to test for AutoCAD certification at the conclusion. The second semester will focus on REVIT and students will have an opportunity to test for certification in REVIT as well. Students who are interested in careers leaning towards Engineering, Architecture, Process Technology, Pipefitting, Design, Industrial Design, and more should consider this course.

3204CE Computer Aided Drafting (CAD) II Certification in Autodesk Inventor & SOLIDWORKS
Grades: 11-12 **13036500**
Prerequisite: CAD I **1 credit**
Students enrolled in this course will demonstrate knowledge and skills using multiple software applications and tools necessary to produce and present computer aided drawings, solid model renderings, and prototypes. Students will use a variety of computer software to learn basic CAD skills in 2D and 3D formats. The first semester will focus on Autodesk Inventor with an opportunity for students to test for Autodesk Inventor certification at the conclusion. The second semester will focus on SOLIDWORKS and students will have an opportunity to test for certification in SOLIDWORKS as well. Students who are interested in careers leaning towards Engineering, Architecture, Process Technology, Pipe fitting, Design, Industrial Design, and more should consider this course.

Programing and Software Development

3303Q PAC Computer Science I
Grades: 9-12 **03580200**
Prerequisites: Algebra I **1 credit**

Computer Science is an introduction to the automated processing of information, including computer programming. This course gives students the conceptual background necessary to understand and construct programs, including the ability to specify computations, understand evaluation models, and utilize major constructs such as functions and procedures, data storage, conditionals, recursion and looping. At the end of this course, students should be able to read and write small programs in the language of Java in response to a given problem or scenario, preparing them to continue on to Computer Science AP. *This course may count as a foreign language OR technology credit under the Foundation High School graduation plan but not both.*

3304Q PAC Computer Science II
Grades: 10 - 12 **03580300**
Prerequisite: Computer Science I **1 credit**

Computer Science II teaches college-level computer science concepts. Students will write Java programs with emphasis on using data structures, game programing, and graphics. *This course may count as a foreign language OR technology credit under the Foundation High School graduation plan but not both.*

3305Q PAC Computer Science III
Grades: 11 - 12 **03580350**
Prerequisite: Computer Science II **1 credit**

Advanced Computer Science is a continuation of Computer Science AP and builds upon such topics as object-oriented programming, inheritance, and classes. Students go on to address advanced topics such as stacks, queues, advance recursion, linked lists, binary trees, and advanced sorting, and searching topics in preparation for and alignment with college-level computer science. *This course may count as a foreign language OR technology credit under the Foundation High School graduation plan but not both.*

3300AP AP Computer Science Principles
Grades: 9 - 12 **A3580300**
Prerequisite: Algebra I **1 credit**

The AP Computer Science Principles course will introduce you to the essential ideas of computer science and show how computing and technology can influence the world around you. Students will creatively address real-world issues and concerns while using the same processes and tools as artists, writers, computer scientists, and engineers to bring ideas to life. *This course may count as a foreign language OR technology credit under the Foundation High School graduation plan but not both.*

3301AP AP Computer Science Block A
3302AP AP Computer Science Block B

Grades: 10 – 12 **A3580110/A3580120**
Prerequisite: Algebra I **2 credits**
Rec. Prerequisite: **PAC Computer Science I or AP Computer Science Principles**

Computer Science AP is a programming course designed to cover the Advance Placement (AP) Computer Science AP Exam topics. The curriculum will build upon the topics addressed in Computer Programming I. Object-oriented components in the language of Java will be stressed. Other topics include decision making, looping, arrays, inheritance, interfaces, abstract classes, Java collections, sorting, searching, and the AP Case Study. *Block A will count as an advanced math course & Block B will count as a LOTE credit under the Foundation High School graduation plan.*

Mathematics Department Course Descriptions

1301 Algebra I
Grade: 9 **03100500**
Prerequisites: None **1 credit**
This course presents the foundation concepts for high school mathematics. Algebra I includes abstract thinking, symbolic reasoning, function concepts, and skills to solve a variety of equations and inequalities.

1301Q/GT PAC Algebra I
Grade: 9 **03100500**
Prerequisites: None **1 credit**
This course will expand the concepts and techniques of Algebra I. Higher level thinking skills and analytical problem solving will be emphasized. Strong arithmetic skills (whole numbers, fractions, decimals) are recommended.

1312 Algebraic Reasoning
Grade: 10-12 **03102540**
Prerequisites: Algebra I **1 credit**
In Algebraic Reasoning, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I, continue with the development of mathematical reasoning related to algebraic understandings and processes, and deepen a foundation for studies in subsequent mathematics courses.

1313 Mathematical Models w/Applications
Grades: 10-12 **03102400**
Prerequisites: Algebra I **1 credit**
Students in this course continue to build on the K-8 and Algebra I foundations as they expand their understanding through other mathematical experiences. Students use algebraic, graphical, and geometric reasoning to recognize patterns and structures, to model information, and to solve problems from various disciplines. Students use mathematical methods to model and solve real-life applied problems involving data, chance, patterns, music, design, and science. Students use mathematical models from algebra, geometry, probability, and statistics and connections among these to solve problems from a wide variety of advanced applications in both mathematical and nonmathematical situations. *This course must be taken prior to Algebra II.*

1314 Geometry
Grades: 9-12 **03100700**
Prerequisites: Algebra I **1 credit**
This course conveys an introduction to the basic structure of geometry (formula proofs) with a stress on developing concepts and applications of theorems. Concepts of space geometry are integrated with place geometry. Algebraic skills are reviewed and strengthened. Area, volume, constructions, and trigonometry are included.

1314Q/GT PAC Geometry
Grades: 9-12 **03100700**
Prerequisites: Algebra I **1 credit**
This course will refine and extend the concepts and techniques of geometry. Higher level thinking skills and analytical problem solving will be emphasized. Strong Algebra I skills are recommended.

1302 Algebra II
Grades: 9-12 **03100600**
Prerequisites: Algebra I **1 credit**
The students will review, refine and extend the concepts and techniques of Algebra I. This course also covers the concepts of quadratic, radical, rational, exponential, absolute value, reciprocal and logarithmic functions. Students also develop an understanding of conic sections.

1302Q/GT PAC Algebra II
Grades: 9-12 **03100600**
Prerequisites: Algebra I **1 credit**
This course covers the content of Algebra II and goes beyond the regular course in both content and depth. Higher level thinking skills and analytical problem solving will be emphasized. Strong Algebra I skills are recommended.

1318 Precalculus
Grades: 10-12 03101100
Prerequisites: Geometry & Algebra II 1 credit
Recommended 80+ average in Alg II/Geom
This course provides a foundation for calculus. Topics studied are trigonometric functions, polar graphs and vectors, complex numbers, real numbers and coordinates, linear and quadratic functions, exponential and logarithmic functions, polynomial and rational functions, systems of equations and inequalities, and conic sections.

1318Q/GT PAC Precalculus
Grades: 10-12 03101100
Prerequisites: Geometry & Algebra II 1 credit
This course provides a foundation for calculus. Topics covered are trigonometric functions, polar graphs and vectors, complex numbers, real numbers and coordinates, linear and quadratic functions, exponential and logarithmic functions, polynomial and rational functions, systems of equations and inequalities, conic sections, sequences and series and limits.

1318AP/GT AP Precalculus A3100100
Grades: 10-12
Prerequisites: Geometry & Algebra II 1 credit
Students entering HS in 2020-2021 & 2021-2022 have a prerequisite of PAC Precalculus
AP Precalculus is for any student seeking a rigorous third- or fourth-year mathematics course after Algebra 2. AP Precalculus helps students interested in STEM majors develop an exceptionally strong foundation for calculus, which is the launchpad for most STEM majors. Topics covered in AP Precalculus include quadratic functions, polynomial and rational functions, exponential and logarithmic functions,trigonometric functions and identities, polar functions, vector-defined functions, conic sections, sequences and series, and limits. These topics will be experienced through multiple representations that model real-world data. Students will develop rigorous symbolic manipulation skills needed to communicate mathematical concepts clearly and accurately. The College Board AP Precalculus test is given at the end of the course.

1320AP/GT AP Statistics
Grades: 10-12 A3100200
Prerequisites: Algebra II 1 credit
The AP Statistics course introduces students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. There are four themes evident in the content, skills, and assessment in the AP Statistics course: exploring data, sampling and experimentation, probability and simulation, and statistical inference. Students use technology, investigations, problem solving, and writing as they build conceptual understanding. The College Board AP Statistics test is given at the end of the course.

1321AP/GT AP Calculus AB
Grade: 11-12 A3100101
Prerequisites: Regular or AP Precalculus 1 credit
This course continues the examination of the topics begun in Precalculus. The idea of limits is developed into the first derivative, mean value theorem, and continues into the idea of integration as the area under a curve. The course will be taught using college materials and at a college level and pace. The College Board AP-AB test is given at the end of this course. One semester of college credit can be earned with the appropriate scores on the AP AB exam.

1322AP/GT AP Calculus BC
Grade: 11-12 A3100102
Prerequisites: Regular or AP Precalculus 1 credit
This course continues the examination of the topics began in AP Precalculus. The first derivative is developed into the mean value theorem and various applications of the derivative, and continues into the idea of integration as area under a curve & volume of solids of revolution. The concepts of power series, taylor series and parametric equations are developed. The course will be taught using college materials and at a college level and pace. College Board AP-BC Calculus test is given at the end of the course. Two semesters of college credit can be earned with the appropriate score on the AP BC exam.

3406 Financial Mathematics
Grades: 10 - 12 **13018000**
Prerequisite: Algebra I **1 credit**
Rec. Prerequisite: Principles of Business
Financial Mathematics is a course about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors. *This course satisfies a math credit requirement for students of the Foundation High School Program.*

1340 College Preparatory Mathematics
Grade: 12 **CP111200**
Prerequisites: Alg I, Geometry, **1 credit**
1 additional foundation math credit, & pass Alg I EOC. Alg II is highly recommended
College Preparatory Mathematics is designed for students at the Grade 12 level whose performance on an end-of course assessment instrument or coursework, a college entrance examination, or a Texas Success Initiative assessment instrument, indicate that the student is not ready to perform entry-level college coursework. Topics covered in this course include; elementary and intermediate algebra & functions, geometry & measurement, data analysis, statistics, & probability. Students must receive 70 or higher in the course to be recognized as eligible for Non-Course Based Options (NCBO) offered by the higher education institutions. Students must earn 80 or higher to meet "college-readiness" standards (TSIA-2 exemption) by partnering institutions (CBC, DMC, TAMUCC, TAMUK). Students will retain their eligibility for a period of twelve months. College readiness will be denoted on the high school transcript with a "T" designation next to the accompanying PEIMS course code.

1328DC College Algebra DC (MATH 1314)
Grade: 11-12 **03102500**
Prerequisites: Algebra I, II, & **.5 credit**
Geometry, Must Meet Del Mar Requirements
This course covers fundamentals of algebra, including inequalities, functions, quadratic equations, exponential and logarithmic functions, systems of equations, determinate and instructor option of binomial theorem or progressions (or both).

1329DC Plane Trigonometry DC (MATH 1316)
Grade: 12 **03102501**
Prerequisites: Algebra I, II, & **.5 credit**
Geometry, Must Meet Del Mar req. and have had College Algebra DC
Trigonometric functions, identities, height and distance, equations involving trigonometric functions, solutions of triangles, area, vectors and their basic applications, and inverse functions.

1327DC Business Math DC (MATH 1324)
Grades: 11-12 **03102500**
Prerequisites: Algebra I, II, & **.5 credit**
Geometry, Must Meet Del Mar Requirements & College Algebra DC
A study of linear equations, systems of linear inequalities, linear programming, probability, logarithmic, exponential functions and mathematics of finance.

3405 Accounting II
Grades: 11-12 **13016700**
Prerequisite: Accounting I **1 credit**
Students continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal and ethical factors. Students reflect on this knowledge as they engage in various managerial and cost accounting activities. Students formulate and interpret financial information for use in management decision making. *This course satisfies a math credit requirement for students of the Foundation*

Note: All Calallen ISD parents should understand that graphing calculators are deemed handheld technology and will be available for student use in the appropriate courses. CISD encourages students to purchase their own graphing calculator during high school. This will enable students to utilize these calculators for homework, projects, and to become familiar with their own calculator. The TI-Nspire calculator is the model most used at CHS. There are other brands available, but parents should make sure that the other brands offer the same features and abilities as the TI-Nspire since these are the models that will be used to teach students on the use of graphing calculators at school; but if they want to use them at home or become better trained on these, students are encouraged to purchase their own.

Science Department Course Descriptions

1410 Integrated Physics and Chemistry
Grades: 9-10 **03060201**
Prerequisites: Teacher/Counselor Recommendation **1 credit**

Integrated Science deals with the nature and changes in matter. It also deals with the nature, form, and transmission of energy. Some specialization disciplines and their applications also are covered in this course.

1401 Biology
Grades: 9-10 **03010200**
Prerequisites: None **1 credit**

This course includes the study of cellular biology, genetics, ecology, zoology and botany. The course is structured to encourage scientific reasoning.

1401Q/GT PAC Biology
Grades: 9-10 **03010200**
Prerequisites: None **1 credit**

Students will be introduced to a wide variety of topics in biology through the use of resources, speakers, audiovisual material and teacher instruction. Skills such as critical thinking, problem solving techniques and higher level thinking skills will be emphasized.

1405AP/GT AP Biology
Grades: 11-12 **A3010200**
Prerequisites: Biology & Chemistry **1 credit**

AP Biology reviews the topics of Biology in greater depth and detail. Topics such as genetics, cytology, ecology, anatomy, and physiology. A College Board AP Exam is given at the conclusion of this course. A major product is required according to teacher requirement or discretion.

1412 Chemistry
Grades: 10-11 **03040000**
Prerequisites: Algebra I & Biology **1 credit**

This is a basic chemistry course focusing on conversions, atomic theory, formula writing, naming compounds, equation writing, acid-base-salt behavior, stoichiometry and nuclear chemistry. Chemistry is appropriate for the college-bound student.

1412Q/GT PAC Chemistry
Grades: 10-11 **03040000**
Prerequisites: Algebra I & Biology or PAC Biology **1 credit**

This course is an in-depth study of the fundamental chemical concepts of atomic theory, gas laws, reaction kinetics/equilibrium oxidation-reduction reactions, acid-base theory. Chemistry PAC involves the ability to obtain and analyze scientific data. It relates to a career in science such as engineering, medicine, science research, dentistry, agriculture, etc.

1415AP/GT AP Chemistry
Grades: 11-12 **A3040000**
Prerequisites: Chemistry & Algebra II **1 credit**

The AP Chemistry course provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore content such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. A College Board AP exam is given at the conclusion of this course.

1430 Physics
Grades: 10-12 **03050000**
Prerequisites: Algebra I & Biology **1 credit**
Rec. Prerequisites: Geometry or concurrent enrollment

This course is a one-year course that teaches traditional, rigorous physics concepts Math is an important component of the course; therefore students should have strong Algebra skills.

1430Q/GT PAC Physics
Grades: 10-12 **03050000**
Prerequisites: Algebra I & Biology **1 credit**
Rec. Prerequisites: Geometry or concurrent enrollment

This course has a strong emphasis on mathematics. First semester is a study of motion and heat. Second semester is a study of sound, light, electricity, and modern (nuclear) physics. Physics is a college preparatory course with stress on developing and improving problem solving skills.

1435AP/GT AP Physics C-Mechanics
Grade: 12 **A3050006**
Prerequisites: Physics or AP Physics 1, PreCal or Concurrent Enrollment **1 credit**

This course is a continuation of Physics with emphasis on content required for credit in a college course that is required for engineers and science majors. It is taught using college level materials and at a college pace. It provides a systematic introduction to the main principles of physics and emphasizes the development of problem solving ability. The fundamentals of calculus are developed when needed and applied to problem solving as well. The course emphasizes preparation for the AP Physics C exam.

1431AP/GT AP Physics I (Algebra based)
Grade: 10-12 **A3050003**
Prerequisites: Algebra I, Geometry, & Algebra II or concurrent enrollment **1 credit**

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion, electric charge and electric force, DC circuits, and mechanical waves and sound. College Course Equivalent AP Physics 1 is a full-year course that is the equivalent of a first-semester introductory college course in algebra-based physics. This course prepares the student for the AP Physics I exam. It is also strongly recommended that students take AP Physics II in order to cover the topics taught in the second semester of college physics.

1432AP/GT AP Physics II (Algebra Based)
Grade: 11-12 **A3050004**
Prerequisites: Physics or AP Physics 1, Algebra I & II, Geometry **1 credit**
Rec. Prerequisites: PreCal or an equivalent course

This course is equivalent to a second-semester college course in algebra-based physics. It covers Fluids and Forces, thermodynamics, Electric Field, electrical Force, and Electrical Potential, Electric Circuits, Magnetism and Electromagnetic Induction, Geometric and Physical Optics, Quantum, atomic, and nuclear physics. The emphasis is on content required for credit in a college course that is set up for non-engineering and non-science majors. It is taught using college level materials and at a college level pace. It emphasizes the development of problem-solving abilities and has a lab component. It prepares the student for the AP Physics 2 exam.

1423 Environmental Systems
Grades: 11-12 **03020000**
Prerequisites: Biology & either Chemistry, Physics or IPC **1 credit**

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

1423AP/GT AP Environmental Science
Grades: 11-12 **A3020000**
Prerequisites: Biology & either Chemistry, Physics or IPC **1 credit**

Explore and investigate the interrelationships of the natural world and analyze environmental problems, both natural and human-made. This course will include laboratory investigations and field work. Skills obtained will include explaining environmental concepts and processes, analyzing data, visual representations, and writings, applying quantitative methods in solving problems, proposing a solution for an environmental problem and supporting your idea with evidence, and analyzing a research study to identify a hypothesis.

4014 Medical Microbiology
Grade: 11-12 **13020700**
Prerequisites: Biology & Chemistry **1 credit**
Rec. Prerequisite: Principles of Health Science

This course is designed to explore the microbial world. Studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms drug resistant organisms, and emerging diseases. Students must meet the 40% laboratory and fieldwork requirement. *This course satisfies a science credit requirement for students on the Foundation High School Program.*

4533 Advanced Plant and Soil Science*
Grades: 11-12 **13002100**
Prerequisite: Biology, IPC/Chem/Physics & one Ag Career Cluster Course **1 credit**

This course is designed to prepare students for careers in the food and fiber industry. Students will learn, reinforce, apply, and transfer their knowledge in a scientific setting where they will learn about the natural world. Investigations, laboratory practices, and field exercises will be used to develop an understanding of current plant and soil science. *This course satisfies a science credit requirement for students on the Foundation High School Program.*

4003 Anatomy and Physiology
Grades: 11-12 **13020600**
Prerequisites: Biology & Chemistry or IPC or Physics **1 credit**
Rec. Prerequisite: Medical Terminology

This course includes the in-depth study of the Human Body. It covers from the cellular level to the systemic level. All body systems are covered. This course is very demanding in the amount of reading and understanding of medical language and terminology. This course is recommended for students entering into the Health Science fields. *This course counts as a fourth year science.*

4006 Pharmacology
Grades: 12 **13020950**
Prerequisites: Chemistry, Biology, & at least one credit in a Level 2 or higher course from the health science career cluster **1 credit**

This occupationally specific course is designed to provide the knowledge and skills necessary for employment in the health care industry. Upon completion of this course students will be eligible to take the Texas State Board Certification Exam for Pharmacy Technicians. The test cannot be taken until after graduation or no more than 60 days prior to graduation. This is a fast-paced course requiring computer skills and memorization in addition to logic and persistence. *This course is an AP weighted course. Additional expenses may apply.*

3004 Forensic Science
Grades: 11-12 **13029500**
Prerequisites: Biology & Chemistry **1 credit**
Rec. Prerequisite: Any Law Enforcement Course

This is a course that uses a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensic science. *This course satisfies a science credit requirement for students on the Foundation High School Program.*

4502 Advanced Animal Science*
Grades: 11-12 **13000700**
Prerequisite: Livestock Production, Geometry, Biology, Chemistry or IPC **1 credit**
Rec. Prerequisite: Vet Medical Application & Principles of Ag

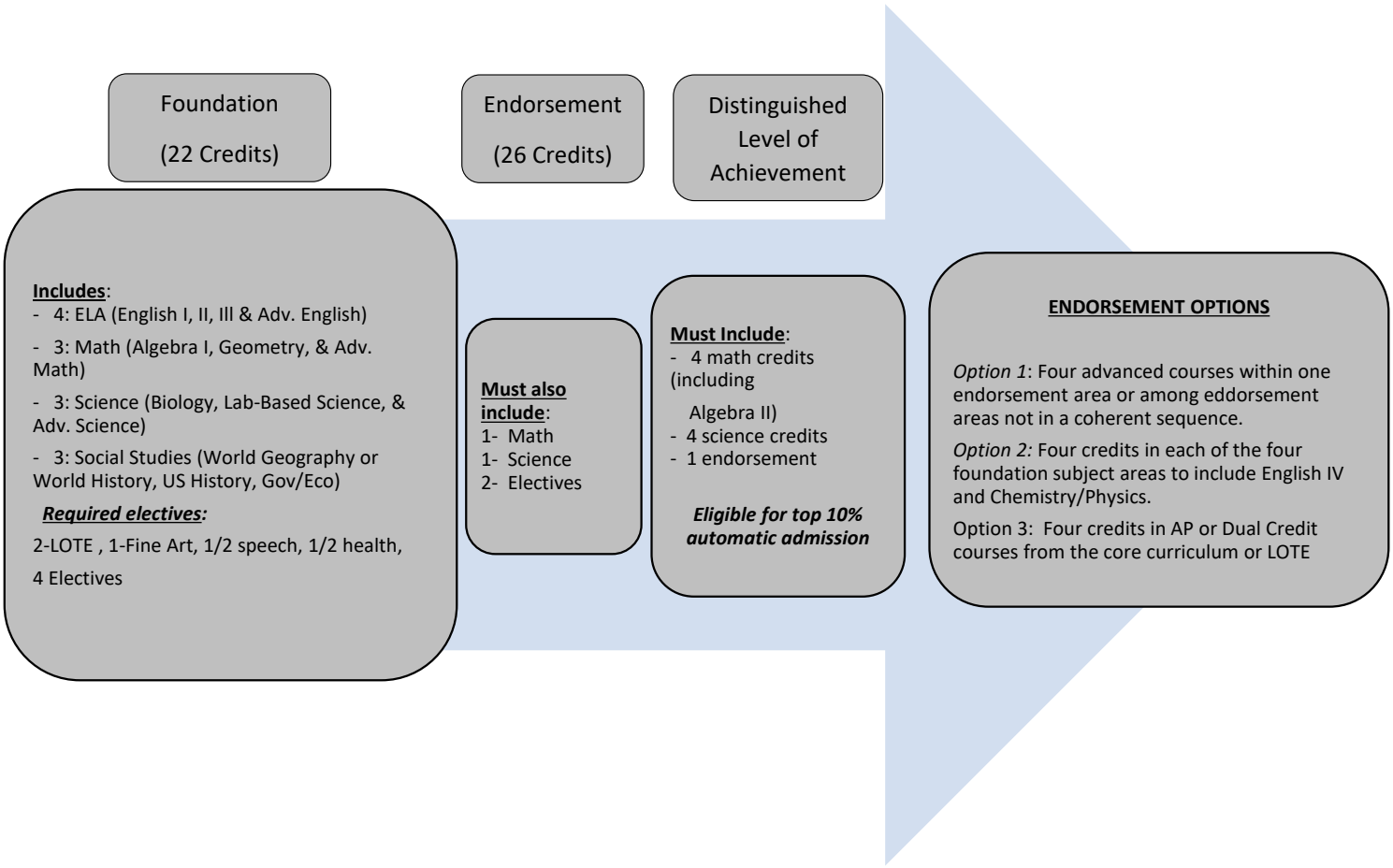
This course will prepare students for careers in the field of animal science. This course will allow the students an opportunity to acquire skills related to animal systems, interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction applies scientific and technological aspects of animal science through field and laboratory experiences. *This course satisfies a science credit requirement for students on the Foundation High School Program.*

3201 PLTW Engineering Science
Grades: 10-12 **13037500**
Prerequisite: Algebra I, Biology, & Any 1 STEM CTE course **1 credit**
Rec. Prerequisite: Geometry

This engineering course is designed to expose students to some of the major concepts and technologies that they will encounter in a postsecondary program of study in any engineering domain. Students will have an opportunity to investigate engineering and high-tech careers. Students will employ science, technology, engineering, and mathematical concepts in the solution of real-world challenge situations. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. This course satisfies a high school science graduation requirement. Students shall be awarded one credit for successful completion of this course. *This course satisfies a science credit requirement for students on the Foundation High School Program.*

Multidisciplinary Studies

- 4 advanced courses from other endorsement areas
- 4 credits in each foundation subject area, including English IV and chemistry and/or physics and Algebra II
- 4 credits in Advanced Placement, or dual credit selected from English, mathematics, science, social studies, economics, LOTE or fine arts



Additional course offerings

- CTC and Del Mar Certification Programs
- Athletics
- Physical Education
- Work Program
- Local Electives

CTC Industrial Certifications

4631 Pipefitting A (CTC) N1300425
4632 Pipefitting B (CTC) N1300426
Grade: 10-12
Rec. Prerequisite: Ag. Mechanics and Metal 2 credits

This course of instruction prepares individuals for jobs as an entry-level pipefitter in the industrial, construction, and maintenance industry. Graduates may find suitable employment with construction and maintenance contractors working in industrial facilities. Students will learn to install and repair liquid and gas piping systems. Upon completion of this program, students will be able to perform work which involves selecting and preparing pipe or tubing joining it together by various means, and work which involves locating and repairing of leaks in piping systems. Students completing the required coursework will receive a Certificate of Completion from the National Center for Construction Education and Research (NCCER).

4621 Electrical I (CTC) - 1 credit 13005600
4622 Electrical II (CTC) - 2 credits 13005700
Grades: 11-12
Rec. Prerequisites: Ag. Mechanics and Metal

This course of instruction prepares individuals to work as an electrician helper. Students will study the following electrical components: Safety, Circuits, Theory, National Electrical Code, Device Boxes, Conduit Bending, Raceways & Fittings, Conductors & Cables, Electrical Drawings, Residential Services, and Test Equipment which includes voltage testers, clamp-on meters, ohmmeters, multi-meters, and other data recording equipment. Upon completion of this program students will be able to perform work which utilizes electrical concepts in a residential or commercial setting. The program is taught under the guidelines of the National Center for Construction Education and Research (NCCER). This is a post-secondary program which maintains student records through a National Registry that provides transcripts, certificates and wallet cards to individuals who successfully complete training modules of the NCCER Contren® Learning Series. Instructors are NCCER certified and are practicing electricians.

There are 4 levels of instruction in the electrical field, up to two levels may be taken at the high school level and then the last two courses are only offered as part of the ABC Electrical Apprenticeship Program. We encourage all high students who take courses in the electrical field to pursue a course of study in the electrical apprenticeship program.

4601 Instrumentation (CTC) N1303900
Grade: 10-12
Rec. Prerequisite: Ag Mechanics and Metal 2 credits

Instrument Fitters and Technicians perform key installation and maintenance functions across several industries. The field of instrumentation covers important processes and knowledge areas, including piping, tubing, fasteners, and metallurgy. Instrumentation Technicians and Fitters are familiar with electrical systems, craft-specific drawings, and are experts in the hand and power tools specific to their trade. NCCER's curriculum addresses all of the learning objectives associated with this broad and demanding field, in areas such as Fasteners, Relays and Timers, and Grounding and Shielding of Instrumentation Wiring.

****All CTC courses are held the Craft Training Center of the Coastal Bend. Students will ride the bus to and from the CTC during school hours.**

CALALLEN / DEL MAR DUAL CREDIT PROGRAM OFFERINGS

Calallen ISD partners with Del Mar College to provide students with opportunities to earn college level certificates prior to high school graduation. Our program offerings include:

- AUTOMOTIVE PROGRAM (Level 1 Certificate)
- COSMETOLOGY PROGRAM (Level 1 Certificate)
- COURT REPORTING PROGRAM (Level 1 Certificate)
- FIRE SCIENCE (FIREFIGHTER) PROGRAM (Level 2 Certificate)
- HEATING VENTILATION AIR CONDITIONING (HVAC) PROGRAM (Level 1 Certificate)
- INSTRUMENTATION PROGRAM (Level 1 Certificate)
- WELDING (INTERMEDIATE) PROGRAM (Level 1 Certificate)
- WELDING (ADVANCED) PROGRAM (Certificate must be completed after graduation)

The course crosswalks, descriptions, and requirements provided in the following pages should be used as a planning guide. Dual credit course information is subject to change based on Del Mar offerings and requirements.

Del Mar Certification Programs

CALALLEN Independent School District

2024-2025

WELDING (INTERMEDIATE) DUAL CREDIT PROGRAM CROSSWALK

PEIMS	CALALLEN ISD COURSE	DMC COURSE EQUIVALENT	APPROX # PERIODS	TYPICAL SCHEDULE	HS CREDITS	COLLEGE HRS
YEAR 1 / 11th GRADE						
FALL SEMESTER						
13032250	4651DC Introduction to Welding	WLDG 1407 Introduction to Welding Using Multiple Purposes	2	M-F	1	4
13011600	4910DC English for Industry Professionals	COMG 1391 Special Topics in Communications, General (Online)	2	Online	1	3
>>> ENG 1301 is an Optional Alternative to COMG 1391 (requires an additional period)						
		ENGL 1301 English Composition I (R3, E3, M0)	*1*	*M-F*	*.5*	*3*
SPRING SEMESTER						
13032300	4653DC Welding 1A DC	WLDG 1521 Welding Fundamentals	2	M-F	1	5
12701410	4930DC Applied Math for Industry Professionals	TECM 1301 Industrial Mathematics (Online)	2	Online	1	3
>>> MATH 1314 is an Optional Alternative to TECM 1301 (requires an additional period)						
		MATH 1314 College Algebra Online (R3, E1, M3)	*1*	*M-F*	*.5*	*3*
SUMMER SEMESTER						
13032300	4654DC Welding 1B DC	WLDG 1435 Introduction to Pipe Welding	4	M-Th	1	4
13032400	4655DC Welding 2A	WLDG 1557 Intermediate Shielded Metal Arc Welding (SMAW)	4	M-Th	1	5
13032400	4656DC Welding 2B	WLDG 1323 Welding Safety, Tools, and Equipment (Online)		Online	1	3

CERTIFICATE RECEIVED AFTER PROGRAM COMPLETION	
*** Welding Applied Tech – Intermediate Welding Certificate from Del Mar *** Students who complete the Intermediate Welding Program may choose to continue to the advanced program.	WINC.CER1
GRADUATION ENDORSEMENT	
Business and Industry Endorsement – Option B: Manufacturing Career Cluster	27 college hrs

Recommended: All courses require R2, E2, M1 unless otherwise indicated.

Updated 10/20/2023

WELDING (INTERMEDIATE) DUAL CREDIT PROGRAM COURSE DESCRIPTIONS

4651DC Introduction to Welding
Basic welding techniques using some of the following processes: Oxy-fuel welding (OFW) and cutting, shielded metal arc welding (SMAW), gas metal arc welding (GMAW), and gas tungsten arc welding (GTAW).

4653DC Welding 1A DC
An introduction to the fundamentals of equipment used in oxy-fuel and arc welding, including welding and cutting safety, basic oxy-fuel welding and cutting, basic arc welding processes and basic metallurgy.

4654DC Welding 1B DC
An introduction to welding of pipe using the shielded metal arc welding process (SMAW), including electrode selection, equipment setup, and safe shop practices. Emphasis on Weld positions 1G and 2G using various electrodes.

4655DC Welding 2A
An introduction to the fundamentals of equipment used in oxy-fuel and arc welding, including welding and cutting safety, basic oxy-fuel welding and cutting, basic arc welding processes and basic metallurgy.

4656DC Welding 2B
An introduction to welding equipment and safety practices, including OSHA standards for industry.

4910DC English for Industry Professionals
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

4930DC Applied Math for Industry Professionals
Math skills applicable to industrial occupations. Includes fraction and decimal manipulation, measurement, percentage, and problem solving techniques for equations and ratio/proportion applications.

Recommended: All courses require R2, E2, M1 unless otherwise indicated.

Updated 10/20/2023

WELDING (ADVANCED) DUAL CREDIT PROGRAM CROSSWALK

PEIMS	CALALLEN ISD COURSE	DMC COURSE EQUIVALENT	APPROX # PERIODS	TYPICAL SCHEDULE	HS CREDITS	COLLEGE HRS
YEAR 1 / 11th GRADE						
Participants will complete the Welding (Intermediate) Program.						
YEAR 2 / 12th GRADE						
FALL SEMESTER						
13032410	4657DC Welding 3A	WLDG 2406 Intermediate Pipe Welding	2	M-F	1	4
SPRING SEMESTER						
13032410	4658DC Welding 3B	WLDG 2453 Advanced Pipe Welding	2	M-F	1	4
YEAR 2 / AFTER GRADUATION (ON YOUR OWN)						
SUMMER SEMESTER						
NA	Not a Calallen Course	WLDG 1313 Introduction to Blueprint Reading for Welders				3
NA	Not a Calallen Course	WLDG 2413 Intermediate Welding Using Multiple Purposes				4
NA	Not a Calallen Course	WLDG 1434 Introduction to Gas Tungsten Arc Welding (GTAW)				4
NA	Not a Calallen Course	WLDG 1317 Introduction to Layout and Fabrication				3

CERTIFICATE RECEIVED AFTER PROGRAM COMPLETION	
*** Advanced Welding Level 2 Certificate from Del Mar OR Welding Associate in Applied Science if additional degree requirements are met after graduation***	WADC.CER2
	49 college hrs

Recommended: All courses require R2, E2, M1 unless otherwise indicated.

Updated 10/20/2023

4657DC Welding 3A
A comprehensive course on the welding of pipe using the shielded metal arc welding (SMAW) process. Welds will be done using various positions. Topics covered include electrode selection, equipment setup, and safe shop practices.

4658DC Welding 3B
Advanced topics involving welding of pipe using the shielded metal arc welding (SMAW) process. Topics include electrode selection, equipment setup, and safe shop practices. Emphasis on weld positions 5G and 6G using various electrodes.

FIRE SCIENCE DUAL CREDIT PROGRAM CROSSWALK

PEIMS	CALALLEN ISD COURSE	DMC COURSE EQUIVALENT	APPROX # PERIODS	TYPICAL SCHEDULE	HS CREDITS	COLLEGE HRS
YEAR 1 / 11th GRADE						
FALL SEMESTER						
13029900	3031DC Firefighter 1A	FIRS 1301 Firefighter Certification I	1	M-Th	.5	3
13029900	3032DC Firefighter 1B	FIRS 1407 Firefighter Certification II	1	M-Th	.5	4
SPRING SEMESTER						
13029900	3033DC Firefighter 1C	FIRS1313 Firefighter Certification III	2	M-F	.5	3
13029900	3034DC Firefighter 1D	FIRS 1319 Firefighter Certification IV	1	M-F	.5	3
SUMMER SEMESTER						
13030000	3042DC Firefighter 2A	FIRS 1323 Firefighter Certification V	8	M	1	3
13030000	3043DC Firefighter 2B	FIRS 1329 Firefighter Certification VI	5	W	.5	3
13030000	3044DC Firefighter 2C	FIRS 1433 Firefighter Certification VII (Capstone)	6	T, Th	1	4
13030000	3045DC Firefighter 2D	FIRS 1103 Firefighter Agility and Fitness Prep	4	W	.5	1
YEAR 2 / 12th GRADE						
FALL SEMESTER						
13020300	4001CE Medical Terminology for Firefighters	HPRS 1106 Medical Terminology (Online)	2	Online	1	CE
SPRING SEMESTER						
N1303015	4008DC EMT DC A	EMSP 1501 Emergency Medical Technician - Basic	2	M-F	1	5
N1303015	4009DC EMT DC B	EMSP 1160 Clinical	6 per week	Varies	1	1

CERTIFICATE RECEIVED AFTER PROGRAM COMPLETION	
*** Basic Firefighter – Level II Certificate from Del Mar ***	FIFT.CER2
GRADUATION ENDORSEMENT	
Public Service Endorsement Option B: Law and Public Service – Emergency Services	30 college hrs

Recommended: All courses require R2, E2, M1 unless otherwise indicated.

Updated 10/20/2023

3031DC Firefighter 1A
One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, II, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100.

3032DC Firefighter 1B
One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100.

3033DC Firefighter 1C
One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100.

3034DC Firefighter 1D
One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100.

4001CE Medical Terminology for Firefighters
Prerequisite for selected health occupations courses. A study of medical terminology, word origin, structure and application.

3042DC Firefighter 2A
One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100.

3043DC Firefighter 2B
One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100.

3044DC Firefighter 2C
One in a series of courses in basic preparation for a new firefighter. Should be taken in conjunction with Firefighter Certification I, III, IV, V, VI, and VII to satisfy the Texas Commission on Fire Protection (TCFP) curriculum for Basic Structural Fire Suppression, Course #100.

3045DC Firefighter 2D
Physical ability testing methods. Rigorous training in skills and techniques needed in typical fire department physical ability tests

4008DC EMT DC A
Preparation for certification as an Emergency Medical Technician (EMT).

4009DC EMT DC B
Health-related work-based learning experience that enables students to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Recommended: All courses require R2, E2, M1 unless otherwise indicated.

AUTOMOTIVE DUAL CREDIT PROGRAM CROSSWALK

PEIMS	CALALLEN ISD COURSE	DMC COURSE EQUIVALENT	APPROX # PERIODS	TYPICAL SCHEDULE	HS CREDITS	COLLEGE HRS
YEAR 1 / 11th GRADE						
FALL SEMESTER						
13039550	4750DC Automotive Basics	AUMT 1405 Introduction to Automotive Technology	2	M-Th	1	4
13011600	4910DC English for Industry Professionals	COMG 1391 Special Topics in Communications, General (Online)	2	Online	1	3
>>> ENG 1301 is an Optional Alternative to COMG 1391 (requires an additional period)						
03220400	1104DC English 4 DC A	*ENG 1301 English Composition I*	*1*	*M-F*	*0.5*	*3*
SPRING SEMESTER						
13039600	4751DC Auto Tech 1A	AUMT 1407 Automotive Electrical Systems	2	M-Th	1	4
12701410	4930DC Applied Math for Industry Professionals	TECM 1301 Industrial Mathematics (Online)	2	Online	1	3
>>> MATH 1314 is an Optional Alternative to TECM 1301 (requires an additional period)						
03102500	1328DC College Algebra DC	*MATH 1314 College Algebra Online*	*1*	*M-F*	*0.5*	*3*
SUMMER SEMESTER						
13032250	4630DC Intro to Welding DC	WLDG 1307 Introduction to Welding Using Multiple Purposes	6.5	F	1	3
YEAR 2 / 12th GRADE						
FALL SEMESTER						
13039600	4752DC Auto Tech 1B	AUMT 1416 Automotive Suspension and Steering System	2	M-Th	1	4
SPRING SEMESTER						
13039700	4762DC Auto Tech 2A	AUMT 2301 Automotive Management	2	W	1	3
13039700	4763DC Auto Tech 2B	AUMT 1410 Automotive Brake System	2	M-Th	1	4

CERTIFICATE RECEIVED AT PROGRAM COMPLETION	
*** Suspension, Driveline, Brake Specialist Level 1 Certificate from Del Mar ***	AUSD.CER1
GRADUATION ENDORSEMENT	
Business and Industry - Option B: Transportation, Distribution, and Logistics- Automotive	27 college hrs

Recommended: R2, E2, M1 for all courses unless otherwise indicated.

Updated 12/04/2023

4750DC Automotive Basics
An introduction to the automotive industry including automotive history, safety practices, shop equipment and tools, vehicle subsystems, service publications, professional responsibilities, and basic automotive maintenance. May be taught manufacturer specific.

4751DC Auto Tech 1A
An overview of electrical system including topics in operational theory, testing, diagnosis, and repair of, charging and starting systems, and electrical accessories. Emphasis on electrical principles, schematic diagrams, and service publications. May be taught manufacturer specific.

4752DC Auto Tech 1B
Diagnosis and repair of automotive suspension and steering systems including electronically controlled systems. Includes component repair, alignment procedures, and tire and wheel service. May be taught manufacturer specific.

4910DC English for Industry Professionals
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

4651DC Intro to Welding DC
Basic welding techniques using some of the following processes: Oxy-fuel welding (OFW) and cutting, shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux cored arc welding (FCAW), and gas tungsten arc welding (GTAW).

4762DC Auto Tech 2A
A study of human and customer relations, and customer satisfaction in the automotive service industry. Emphasis on management and building relationships between the service department and the customer.

4763DC Auto Tech 2B
Operation and repair of drum/disc type brake systems. Topics include brake theory, diagnosis, and repair of power, manual, anti-lock brake systems, and parking brakes. May be taught manufacturer specific

4930DC Applied Math for Industry Professionals
Math skills applicable to industrial occupations. Includes fraction and decimal manipulation, measurement, percentage, and problem solving techniques for equations and ratio/proportion applications.

Recommended: R2, E2, M1 for all courses unless otherwise indicated.

COURT REPORTING DUAL CREDIT PROGRAM CROSSWALK

PEIMS	CALALLEN ISD COURSE	DMC COURSE EQUIVALENT	APPROX # PERIODS	TYPICAL SCHEDULE	HS CREDITS	COLLEGE HRS
YEAR 1 / 10th GRADE						
FALL SEMESTER						
N1303017	3011DC Foundations of Court Reporting A	CRTR 1304 Machine Shorthand I	2	M, W	.5	3
13030100	3013DC Realtime Court Reporting A	CRTR 1308 Realtime Court Reporting I	2	T, Th	.5	3
SPRING SEMESTER						
N1303017	3012DC Foundations of Court Reporting B	CRTR 1207 Machine Shorthand Speed Building	1	M, W	.5	2
13030100	3014DC Realtime Court Reporting B	CRTR 1210 Realtime Court Reporting II	1	T, Th	.5	2
YEAR 2 / 11th GRADE						
FALL SEMESTER						
13029600	3017DC Court Systems and Practices A	CRTR 2215 Court Reporting and Office Procedures	1	Online	.5	2
13011300	3016DC Data Entry for Court	CRTR 1241 Speed Building II	1	Online	.5	2
SPRING SEMESTER						
N1303016	3019DC Advanced Legal Systems and Professions A	CRTR 1257 Literary/Jury Charge Dictation I	1	T, Th	.5	2
N1303016	3020DC Advanced Legal Systems and Professions B	CRTR 2218 Testimony Dictation I	1	M, W	.5	2
YEAR 3/ 12th GRADE						
FALL SEMESTER						
13029600	3018DC Court Systems and Practices B	CRTR 2301 Intermediate Machine Shorthand		Online	.5	3
13030100	3015DC Realtime Court Reporting C	CRTR 2310 Realtime Court Reporting III		Online	.5	3
SPRING SEMESTER						
Spring semester courses will vary by student.						

CERTIFICATE RECEIVED AFTER PROGRAM COMPLETION	
*** Information Reporting/ Scoping Certificate from Del Mar College ***	IREP.CER1
GRADUATION ENDORSEMENT	
Public Service Endorsement – Option B: Law and Public Service – Legal Studies	22 college hrs

Recommended: All courses require R2, E2, M1 unless otherwise indicated.

Updated 10/20/2023

COURT REPORTING DUAL CREDIT PROGRAM COURSE DESCRIPTIONS

3011DC Foundations of Court Reporting A
Instruction in general principles of real-time machine shorthand theory and skill building through read-back of dictation notes, machine practice, and transcription. This course is designed to be repeated to meet program requirements.

3012DC Foundations of Court Reporting B
Continued development of real-time shorthand skills through read-back, machine practice, and transcription. This course is designed to be repeated to meet program standards.

3013DC Realtime Court Reporting A
Development of computer and machine shorthand skills necessary for writing real-time for production of projects and assignments.

3014DC Realtime Court Reporting B
Continued development of computer and machine shorthand skills necessary for writing real-time for production of projects and assignments.

3015DC Realtime Court Reporting C
Enhancement of skills necessary for writing real-time theory and dictation practice using computer-aided technology and instructional interaction.

3016DC Data Entry for Court
An overview of captioning and Communication Access Real-time. Translation (CART) procedures, software and hardware

3017DC Court Systems and Practices A
Instruction in the duties and responsibilities of the freelance court reporter including the preparation of depositions.

3018DC Court Systems and Practices B
Continued development of real-time machine shorthand skills through read-back, machine practice, and transcription. This course is designed to be repeated multiple times to meet program standards.

3019DC Advanced Legal Systems and Professions A
Skills necessary to develop speed and accuracy in writing and transcribing literary/jury charge dictation. This course is designed to be repeated to meet program standards.

3020DC Advanced Legal Systems and Professions B
Skills necessary for developing speed and accuracy in the writing of testimony. This course is designed to be repeated to meet program standards.

Required: All courses recommend R2, E2, M1 unless otherwise indicated.

Updated 10/20/2023

COSMETOLOGY DUAL CREDIT PROGRAM CROSSWALK

PEIMS	CALALLEN ISD COURSE	DMC COURSE EQUIVALENT	APPROX # PERIODS	TYPICAL SCHEDULE	HS CREDITS	COLLEGE HRS
YEAR 1 / 11th GRADE						
FALL SEMESTER						
13025100	3550DC Introduction to Cosmetology DC	CSME 1405 Fundamentals of Cosmetology	2.5	M-F	1	4
SPRING SEMESTER						
N1302531	3555DC Cosmo Nail & Spa	CSME 1443 Manicuring and Related Theory	2.5	M-F	2	4
SUMMER SEMESTER						
13025210	3561DC Cosmetology 1A with LAB	CSME 1354 Artistry of Hair Design 1	4	M-F	1	3
	3562DC Cosmetology 1B with LAB	CSME 1453 Chemical Reformation & Related Theory	2	M-F	1	4
	3563DC Cosmetology 1C with LAB	CSME 2401 Principles of Hair Coloring	2	M-F	1	4
YEAR 2 / 12th GRADE						
FALL SEMESTER						
13025050	3565DC Principles of Cosmo	CSME 1310 Introduction to Haircutting & Theory	2	M-F	1	3
13025310	3572DC Cosmetology 2A DC	CSME 2439 Advanced Hair Deign	2	M-F	1	4
	3573DC Cosmetology 2B DC	CSME 2337 Advanced Cosmetology Techniques	1	M-F	1	3
SPRING SEMESTER						
13025310	3574DC Cosmetology 2C DC	CSME 2310 Advanced Hair Cutting & Theory	2	M-F	1	3
N1302533	3585DC Esthetics A DC	CSME 1244 Introduction to Salon Development	1	M-F	1	2
	3586DC Esthetics B DC	CSME 1248 Principles of Skin Care	1	M-F	1	2
13025000	3590DC Cosmetology Capstone	CSME 2441 Preparation for State Examination (Capstone)	2	M-F	2	4

CERTIFICATION REQUIREMENTS AFTER PROGRAM COMPLETION	
*** Cosmetology Certificate from Del Mar College ***	COSM.CER1
GRADUATION ENDORSEMENT	
Public Services – Option B: Human Services – Cosmetology and Personal Care Services	40 college hrs

Updated 10/20/2023

3550DC Introduction to Cosmetology DC
A course in the basic fundamentals of cosmetology. Topics include safety and sanitation, service preparation, manicure, facial, chemical services, shampoo, haircut, wet styling, and comb out

3555DC Cosmo Nail & Spa
Presentation of the theory and practice of nail services. Topics include terminology, application, and workplace competencies related to nail services.

3561DC Cosmetology 1A with LAB
An introduction to hair design. Topics include the theory and applications of wet styling, thermal hair styling, and finishing techniques.

3562DC Cosmetology 1B with LAB
Presentation of the theory and practice of chemical reformation including terminology, application, and workplace competencies.

3563DC Cosmetology 1C with LAB
Presentation of the theory, practice, and chemistry of hair color. Topics include terminology, application and workplace competencies related to hair color.

3565DC Principles of Cosmo
An introduction to the theory and practice of hair cutting. Topics include terminology, implements, sectioning and finishing techniques

3572DC Cosmetology 2A DC
Advanced concepts in the theory and practice of hair design.

3573DC Cosmetology 2B DC
Mastery of advanced cosmetology techniques including hair designs, professional cosmetology services and workplace competencies.

3574DC Cosmetology 2C DC
Advanced concepts and practice of haircutting. Topics include haircuts utilizing scissors, razor and/or clippers.

3585DC Esthetics A DC
An overview of the procedures and operations as related to salon management.

3586DC Esthetics B DC
Introduction of the theory and practice of skin care.

3590DC Cosmetology Capstone
Preparation for the state licensing examination.

INSTRUMENTATION DUAL CREDIT PROGRAM CROSSWALK

PEIMS	CALALLEN ISD COURSE	DMC COURSE EQUIVALENT	APPROX # PERIODS	TYPICAL SCHEDULE	HS CREDITS	COLLEGE HRS
YEAR 1 / 10th GRADE						
FALL SEMESTER						
13040502	4610DC Intro to Process Technology DC	INTC 1341 Principles of Automatic Control	2	M-W	1	3
13011600	4910DC English for Industry Professionals	COMG 1391 Special Topics in Communications, General (Online)	2	Online	1	3
>>> ENG 1301 is an Optional Alternative to COMG 1391 (requires an additional period)						
03220400	1104DC English 4 DC A	*ENGL 1301 English Composition I (R3, E3, M0)*	*1*	*M-F*	*.5*	*3*
SPRING SEMESTER						
13036800	4618DC AC-DC Electronics	CETT 1409 DC-AC Circuits	2	M-Th	1	4
12701410	4930DC Applied Math for Industry Professionals	TECM 1301 Industrial Mathematics (Online)	2	Online	1	3
>>> MATH 1314 is an Optional Alternative to TECM 1301 (requires an additional period)						
03102500	1328DC College Algebra DC	*MATH 1314 College Algebra Online (R3, E1, M3)*	*1*	*M-F*	*.5*	*3*
YEAR 2 / 11th GRADE						
FALL SEMESTER						
13040504	4611DC Petrochemical Safety, Health, & Environment	INTC 1312 Instrumentation and Safety	5	F	1	3
SPRING SEMESTER						
13037600	4619DC Digital Electronics	INTC 1356 Instrumentation Calibration	3	M, W	1	3
YEAR 3 / 12th GRADE						
FALL SEMESTER						
N1303900	4600DC Intro to Instrumentation and Electrical A	INTC 2336 Distribute Control and Programmable Logic	3	T, Th	.5	3
	4601DC Intro to Instrumentation and Electrical B	INTC 2333 Instrumentation Systems Installation	4	M, W	.5	3
SPRING SEMESTER						
N1303901	4602DC Advanced Instrument and Electrical A	INTC 2350 Fieldbus Process Control Systems	6	F	.5	3
	4603DC Advanced Instrument and Electrical B	INTC 1343 Application of Industrial Automatic Controls	6	F	.5	3

CERTIFICATE RECEIVED AFTER PROGRAM COMPLETION	
*** Process Tech-Industrial Instrumentation Installer Level 1 Certificate from Del Mar ***	PRII.CER1
GRADUATION ENDORSEMENT	
Business and Industry Endorsement Option B: Refining and Chemical Processes	31 college hrs

Recommended: All courses require R2, E2, M1 unless otherwise indicated.

Updated 10/20/2023

4600DC Intro to Instrumentation and Electrical A
An overview of distributed control systems including configuration of programmable logic controllers, smart transmitters, and field communicators. Functions of digital systems in a process control environment.

4601DC Intro to Instrumentation and Electrical B
Synthesis, application, and integration of instrument installation components. Includes a comprehensive final project.

4602DC Advanced Instrument and Electrical A
A comprehensive view of fieldbus systems using theory, applications, and hands-on experiences.

4603DC Advanced Instrument and Electrical B
Automatic process control including measuring devices, analog and digital instrumentation, signal transmitters, recorders, alarms, controllers, control valves, and process and instrument diagrams. Includes connection and troubleshooting of loops.

4610DC Intro to Process Technology DC
Basic measurements, automatic control systems and design, closed loop systems, controllers, feedback, control modes, and control configurations.

4611DC Petrochemical Safety, Health, & Environment
An overview of industries employing instrument techniques. Includes instrument safety techniques and practices as applied to the instrumentation field.

4618DC AC-DC Electronics
Fundamentals of DC circuits and AC circuits operation including Ohm's law, Kirchhoff's laws, networks, transformers, resonance, phasors, capacitive and inductive and circuit analysis techniques.

4619DC Digital Electronics
Techniques for configuring and calibrating transmitters, controllers, recorders, valves, and valve positioners.

4910DC English for Industry Professionals
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency.

4930DC Applied Math for Industry Professionals
Math skills applicable to industrial occupations. Includes fraction and decimal manipulation, measurement, percentage, and problem solving techniques for equations and ratio/proportion applications.

Recommended: All courses require R2, E2, M1 unless otherwise indicated.

Updated 10/20/2023

HVAC DUAL CREDIT PROGRAM CROSSWALK

PEIMS	CALALLEN ISD COURSE	DMC COURSE EQUIVALENT	APPROX # PERIODS	TYPICAL SCHEDULE	HS CREDITS	COLLEGE HRS
YEAR 1 / 12th GRADE						
FALL SEMESTER QUARTER 1						
13005800	4711DC HVAC 1A	HART 1401 Basic Electricity for HVAC	3	M-Tu	.5	4
	4712DC HVAC 1B	HART 1407 Refrigeration Principles	3	W-Th	.5	4
FALL SEMESTER QUARTER 2						
13005900	4722DC HVAC 2A	HART 1410 HVAC Shop Practices and Tools	3	M-Tu	.5	4
	4723DC HVAC 2B	HART 1356 EPA Recovery Certification Preparation (Online)	3	W-Th	.5	3
SPRING SEMESTER QUARTER 3						
13005900	4724DC HVAC 2C	HART 1441 Residential Air Conditioning	3	M-Tu	.5	4
	4725DC HVAC 2D	HART 1403 Air Conditioning Control Principles	3	W-Th	.5	4
SPRING SEMESTER QUARTER 4						
13005250	4733DC HVAC 3A	HART 1445 Gas and Electric Heating	3	M-Tu	.5	4
	4734DC HVAC 3B	HART 2338 Air Conditioning Installation and Startup Capstone	3	W-Th	.5	3

CERTIFICATE RECEIVED AFTER PROGRAM COMPLETION	
*** Air Conditioning Applied Technology Level 1 Certificate from Del Mar ***	ACAT.CER1
GRADUATION ENDORSEMENT	
Business and Industry – Option B: Architecture and Construction	30 college hrs

Recommended: All courses require R2, E2, M1 unless otherwise indicated.

Updated 10/20/2023

HVAC DUAL CREDIT PROGRAM COURSE DESCRIPTIONS

4711DC HVAC 1A
Principles of electricity as required by HVAC, including proper use of test equipment, electrical circuits, and component theory and operation.

4712DC HVAC 1B
An introduction to the refrigeration cycle, heat transfer theory, temperature/pressure relationship, refrigerant handling, refrigeration components, and safety.

4722DC HVAC 2A
Tools and instruments used in the HVAC industry. Includes proper application, use and care of these tools, and tubing and piping practices.

4723DC HVAC 2B
Certification training for HVAC refrigerant recovery, recycle, and reclaim. Instruction will provide a review of EPA guidelines for refrigerant recovery and recycling during the installation, service, and repair of all HVAC and refrigeration systems.

4724DC HVAC 2C
A study of components, applications, and installation of mechanical air conditioning systems including operating conditions, troubleshooting, repair and charging of air conditioning systems.

4725DC HVAC 2D
A basic study of HVAC and refrigeration controls; troubleshooting of control components; emphasis on use of wiring diagrams to analyze high and low voltage circuits; a review of Ohm's law as applied to air conditioning controls and circuits.

4733DC HVAC 3A
A study of the procedures and principles used in servicing heating systems including gas fired furnaces and electric heating systems.

4734DC HVAC 3B
A study of air conditioning system installation, refrigerant piping, condensate disposal, and air cleaning equipment with emphasis on startup and performance testing.

Required: All courses require R2, E2, M1 unless otherwise indicated.

Updated 10/20/2023

Diesel Engine Specialist Level 1
Grades:11-12
Year 2 Fall:
4771DC Diesel Mechanic 1A 13040150
DEMR 1306: Diesel Engine I
The Diesel Applied Technology curriculum offers an opportunity to receive knowledge and develop skills necessary to function as a diesel service technician and mechanic. The curriculum is designed to give a practical approach, under job shop performance conditions, to the study of diesel mechanics.

Year 2 Spring:
4772DC Diesel Mechanic 1B 13040150
DEMR 1426: Basic Hydraulics
The Diesel Applied Technology curriculum offers an opportunity to receive knowledge and develop skills necessary to function as a diesel service technician and mechanic. The curriculum is designed to give a practical approach, under job shop performance conditions, to the study of diesel mechanics.

Nondestructive Testing Technology Level 2
Grades: 11-12
Year 1 Fall:
4691DC Nondestructive Testing 1A
NDTE 1310: Liquid Penetrant/ 13032700
Magnetic Particle Testing (MT/PT Level 1)
Theoretical study and practical application of the nondestructive testing technique of penetrant and magnetic particle testing required by quality assurance and test personnel including proper test technique, or combination of techniques and interpretation, evaluation of test results.
4692DC Nondestructive Testing 1B
NDTE 1440: Eddy Current Testing 13032700
General principles of Eddy Current Testing including theory, knowledge and skills for basic examination; effects of material properties, probe types, calibration standards and equipment selection.

Year 1 Spring:
4693DC Nondestructive Testing 2A
NDTE 1405: Introduction to Ultrasonics 13032800
Basic theory and applications of the ultrasonic techniques of materials testing covering the theoretical material from the certification test for Ultrasonic Level I American Society of Nondestructive Testing.
4694DC Nondestructive Testing 2B
NDTE 2572: Advanced Eddy 13032800
Current Testing (ET Level II)
Advanced study of Eddy Current Testing that provides the student classroom training and hands on applications. The student will progress through a series of lessons and gain demonstrated abilities comparable to a Level II technician. The classroom and lab training will meet the requirements of SNT-TC-1A and NAS -410, which are the governing criteria for certification.

Process Technology
Grades:11-12
Year 1 Fall:
4612DC Process Technology 1A 13001255
PTAC 1302: Introduction to Process Technology
An introduction overview of the processing industries.
Year 1 Spring:
4613DC Process Technology 1B 13001255
PTAC 1310: Process Technology I – Equipment
Introduction to the use of common processing equipment.

Year 2 Fall:
4614DC Process Technology 2A 13001265
PTAC 1308: Safety, Health, and Environment I
An overview of safety, health, and environmental issues in the performance of all job tasks in process industries.
Year 2 Spring:
4615DC Process Technology 2B 13001265
PTAC 1354: Industrial Processes
The study of the common types of industrial processes.

****All DC Certification Program courses are held either at the Del Mar Campus or at Calallen HS, depending on the program.**

Athletics Department Course Descriptions

6311 Football (1, 2, 3, 4)
Grades: 9-12 **PES00000-3**
Prerequisite: None **1 credit**
Competitive UIL football involves interschool competition. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach(es).

6321 Boys Basketball (1, 2, 3, 4)
Grades: 9-12 **PES00000-3**
Prerequisite: None **1 credit**
This course includes competitive UIL basketball for interschool competition. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach(es).

6331 Boys Track and Cross Country (1 , 2, 3, 4)
Grades: 9-12 **PES00000-3**
Prerequisite: None **1 credit**
This course includes competitive UIL cross country and track for interschool competition. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach(es).

6361 Boys Baseball (1, 2, 3, 4)
Grades: 9-12 **PES00000-3**
Prerequisite: None **1 credit**
This course includes competitive UIL baseball for interschool competition. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach(es).

6421 Girls Basketball (1, 2, 3, 4)
Grades: 9-12 **PES00000-3**
Prerequisite: None **1 credit**
This is a program designed by UIL for values learned in educational competition. The self-discipline and sacrifice involved in competition are keys to those same qualities that will be of great value to everyone in life. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach(es).

6501 Tennis (1, 2, 3, 4)
Grades: 9-12 **PES00000-3**
Prerequisite: None **1 credit**
This course includes competitive UIL tennis for interschool competition. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach(es).

6441/31 Girls Track and Cross Country (1, 2, 3, 4)
Grades: 9-12 **PES00000-3**
Prerequisite: None **1 credit**
This course includes competitive UIL track and cross country for interschool competition. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach(es).

5421 PE/Cheerleader (1, 2, 3, 4)
Grades: 9-12 **PES00013**
Prerequisite: Students audition for class **1 credit**
Students lead cheers at pep rallies and athletic events.

5401 PE/Dance (Topcats) (1, 2, 3, 4)
Grades: 9-12 **PES00014**
Prerequisite: Students audition for class **1 credit**
Students will acquire creative expression through movement, develop an appreciation of dance as an art form and develop design factors in dance technique. Students will participate at pep rallies and athletic events.

6351 Boys Soccer (1, 2, 3, 4)
Grades: 9-12 **PES00000-3**
Prerequisite: None **1 credit**
This course includes competitive UIL soccer for interschool competition. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach(es).

6411 Girls Volleyball (1, 2, 3, 4)
Grades: 9-12 **PES00000-3**
Prerequisite: None **1 credit**
This course includes competitive UIL volleyball for interschool competition. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach(es).

6461 Girls Softball (1, 2, 3, 4)
Grades: 9-12 **PES00000-3**
Prerequisite: None **1 credit**
This course includes competitive UIL softball for interschool competition. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach(es).

6451 Girls Soccer (1, 2, 3, 4)
Grades: 9-12 **PES00000-3**
Prerequisite: None **1 credit**
This course includes competitive UIL soccer for interschool competition. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach(es).

6531 Swimming (1, 2, 3, 4)
Grades: 9 - 12 **PES00000-3**
Prerequisite: Be able to swim **.5 or 1 credit**
This course is for any student interested in preparing for and participating in UIL swimming competition, and off season training related to competitive swimming. It is open to both varsity and junior varsity level athletes, decided by the coaching staff. The purpose of the course is to teach, refine, and build competitive swimming techniques used by swimmers in competition. You must compete for the high school swim team to enroll in this course, any other reason for taking this course must be cleared with the coach prior to enrolling. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach(es).

6511 Golf (1, 2, 3, 4)
Grades: 9-12 **PES00000-3**
Prerequisite: None **1 credit**
This course includes competitive UIL golf for interschool competition. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach(es).

Physical Education & Health Department Course Descriptions

6100 Health Education
Grades: 9-12 **03810100**
Prerequisites: None **.5 credit**
This course is a study of personal health and fitness, getting along with yourself and others, nutrition and your health, drugs in our society (benefits and dangers), maintaining a healthy body, family and social health, consumer health, safety and first aid, treating controlling, and preventing diseases, and the health of the environment and the community.

6202 Lifetime Fitness & Wellness Pursuits
Grades: 9-12 **PES00051**
Prerequisites: None **1 credit**
This is entrance course for the Physical Education Program. The basic purpose of this course is to motivate students to strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness. The knowledge and skills taught in this course include teaching students about the process of becoming fit as well as achieving some degree of fitness within the class. The concept of wellness, or striving to reach optimal levels of health, is the cornerstone of this course and is exemplified by one of the course objectives – students designing their own personal fitness program.

6200 Lifetime Fitness & Outdoor Pursuits
Grades: 9-12 **PES00053**
Prerequisites: None **1 credit**
The Texas Parks and Wildlife Department developed the Outdoor Education course to enhance, and educate students in outdoor activities and wildlife conservation. Curriculum includes: Hunter Education, Boater Education, and Angler Education. Wilderness survival, trip planning, wildlife conservation, camping, backpacking, orienteering, archery and tackle crafts are also areas that will be explored. Emphasis is placed on ethics. Safety, conservation, laws, responsibilities, and physical fitness. *Additional fees may apply.*

6201 Skill-Based Lifetime Activities
Grades: 9-12 **PES00056**
Prerequisites: None **1 credit**
Students are expected to develop health-related fitness and an appreciation for team work and fair play. Like the other high school physical education courses, Team Sports is less concerned with the acquisition of physical fitness during the course than reinforcing the concept of incorporating physical activity into a lifestyle beyond high school.

6521 Weight Training & Exercise Fitness (1, 2, 3, 4)
Grades: 9-12 **PES000003**
Prerequisites: None **1 credit**
Students are expected to participate in a wide range of weight training and fitness exercises designed to improve muscular strength and flexibility, and endurance in an organized and supervised environment. Students will be expected to dress out for class each day and participate in all activities as designed by the instructor. This course will teach exercises that can be pursued for a lifetime and benefit the entire body. Weight room safety and proper technique will be taught in the initial weeks of the course. Only students who have a serious interest in improving themselves in the areas listed above should sign up for this course.

6001 ROTC I **PES00004**
6002 ROTC II **03160200**
6003 ROTC III **03160300**
6004 ROTC IV **03160400**
Grades: 9-12
Recommended: None **1 credit**
ROTC serves as the foundation for the development of "fellowship" skills. The goals of the ROTC program are explained, study skills are developed, Military Customs and Courtesies are demonstrated, and rudimentary marching skills are started. Performance requirements are limited to preparation and participation in the Annual Military Inspection. The commencement of leadership and command skills begin through involvement in Unit competitive teams. Students will learn to make informed decisions based on participation in Leadership Academies and Mini-Boot Camps. This course is taught in conjunction with Tuloso-Midway ISD and students are bussed to the TM High School campus. *This course satisfies a PE credit requirement for students on the Foundation High School Program.*

Career Preparation Course Descriptions

3407 Career Preparation I
Grades: 11-12 **12701300**
Prerequisites: None **2 credits**
This course provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and supports strong partnerships among school, business, and community stakeholders. The goal is to prepare students with a variety of skills for a fast-changing workplace. Students are taught employability skills, which include job-specific applicable to their training station, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

3408 Career Preparation II
Grades: 12 **12701400**
Prerequisites: Career Prep I **2 credits**
This course develops essential knowledge and skills through classroom technical instruction and on-the-job training in an approved business and industry training area. Students will develop skills for lifelong learning, employability, leadership, management, work ethics, safety and communication as a group; however, each student will have individual training plan that will address job-specific knowledge and skills.

3409 Extended Career Prep I
Grades: 12 **12701305**
Prerequisites: One or more advanced CTE courses in a program of study related to the field in which the student will be employed **3 credits**
Students will participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal of the class is to prepare students with a variety of skill for a changing workplace.

3410 Extended Career Prep II
Grades: 12 **12701405**
Prerequisites: One or more advanced CTE courses in a program of study related to the field in which the student will be employed **3 credits**
Students will participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal of the class is to prepare students with a variety of skill for a changing workplace.

Local Credit Electives

8004 Office Aide (local credit)
Grade: 12 **85000010**
Prerequisites: Must complete application & meet criteria **.5 - 1 credit**
This course is for selected students to assist in office work. The areas of assignment are guidance center, principal's office, and attendance office. **This class may not be taken in conjunction with a leave period.**

8002 Library Aide (local credit)
Grade: 12 **85000010**
Prerequisites: Must complete application & meet criteria **.5 - 1 credit**
This course is for selected students to assist in library work. They will help process library books; help circulate books, magazines, and audiovisual equipment, and assist teachers and students. **This class may not be taken in conjunction with a leave period.**

8001 Teachers Aide (local credit)
Grade: 12 **85000020**
Prerequisites: Must complete application & meet criteria **.5 - 1 credit**
This course is for selected students to assist teachers. Credit will be awarded if students meet predetermined criteria. **This class may not be taken in conjunction with a leave period.**

Non-Credit Elective Course

8017 Leave Period 7 **85000GO7**
Grade: 12 only
Prerequisites: Must complete application & meet criteria
This class may <u>not</u> be taken in conjunction with an aide period.

District Senior Leave Policy

Senior Leave is a term used for daily early dismissal from school. Student Aide is a class period where students can select to assist in the office, library, or in a classroom. Senior Leave/Student Aide is a privilege that may be awarded to students who demonstrate academic success in high school and preparedness for college and/or career.

To be scheduled for Senior Leave/Student Aide, students must:

- submit a Senior Leave/Student Aide Application, signed by a parent
- meet qualifying requirements

Seniors who are granted leave period will be dismissed daily at the end of 6th period. Students must depart the campus upon dismissal. Students are not permitted to stay in the hallways, classrooms, parking lot, or any other location on campus during the leave period. Students who are granted an aide period are ineligible for a senior leave period.

Academic Requirements (must meet both I and II)

I. Student is on track to graduate in May with the following:
   - A. all credits required by the Foundation High School Program;
   - B. four credits in math;
   - C. four credits in science; and
   - D. at least one endorsement.

II. Student has passed all STAAR EOC exams:
   - A. Algebra I;
   - B. Biology;
   - C. English I;
   - D. English II; and
   - E. U.S. History.

Readiness Requirements (must meet at least one)

III. Student has met the passing standards for Math and ELA on one of the following assessments:
   - A. TSIA2;
   - B. SAT; or
   - C. ACT

IV. Student has earned credit for Texas College Bridge in Math and ELA.

V. Student has successfully completed 9 hours of dual credit coursework.

VI. Student has passed an AP Exam with a score of 3 or higher.

VII. Student has earned a post-secondary certification, Level 1 Certificate, or Level 2 Certificate.

VIII. Student has enlisted in the military and provided appropriate documentation.

Other Requirements

IX. Students with Senior Leave cannot stay on campus during the leave period and must have personal transportation home

X. Student has parent permission to participate in Senior Leave/Student Aide

XI. Discipline and attendance will be considered

Students who do not meet the requirements listed above may be granted Senior Leave privileges by committee decision. Decisions about student eligibility for Senior Leave/Student Aide will be at the discretion of campus administration. Senior Leave/Student Aide Privileges may be revoked if the student fails to comply with district/campus policies.

Upon completion of meeting academic and readiness requirements a student may apply for Senior Leave/Aide privileges.

Initial-Eligibility Standards

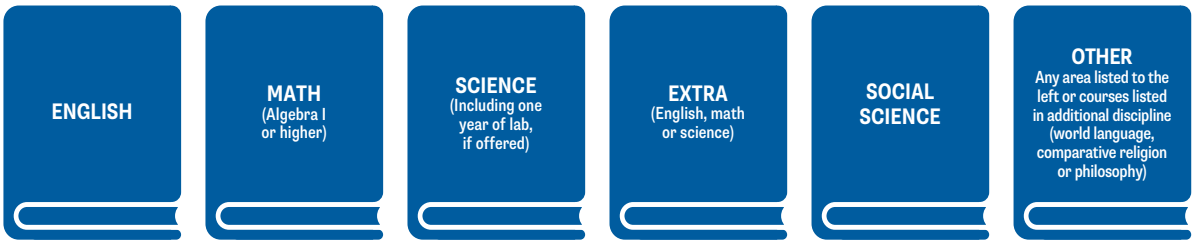
If you want to compete in NCAA sports, you need to register with the NCAA Eligibility Center at **eligibilitycenter.org**. Plan to register before your freshman year of high school. For more information on registration, visit **on.ncaa.com/RegChecklist**.

Academic Requirements

Division I and II schools require you to meet academic standards. To be eligible to practice, compete and receive an athletics scholarship in your first year of full-time enrollment, you must meet the following requirements:

Division I

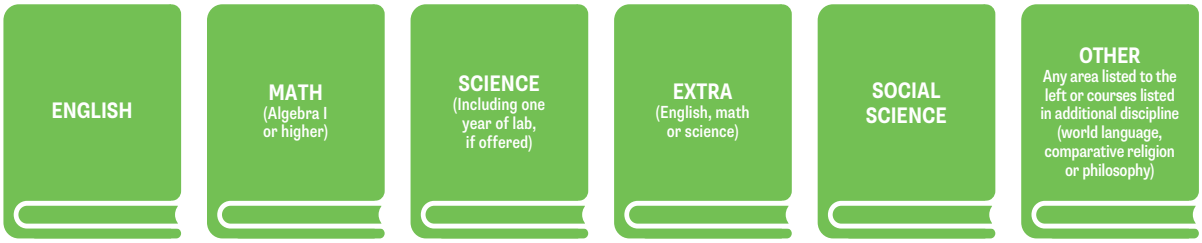
1. Earn 16 NCAA-approved core-course credits in the following areas:



2. Complete your 16 NCAA-approved core-course credits in eight academic semesters or four consecutive academic years from the start of ninth grade. If you graduate from high school early, you still must meet core-course requirements.
3. Complete 10 of your 16 NCAA-approved core-course credits, including seven in English, math or science, before the start of your seventh semester. Once you begin your seventh semester, any course needed to meet the 10/7 requirement cannot be replaced or repeated.
4. Earn a minimum 2.3 **core-course GPA**.
5. Ask your high school counselor to upload your **final official transcript** with proof of graduation to your Eligibility Center account.

Division II

1. Earn 16 NCAA-approved core-course credits in the following areas:



2. Earn a minimum 2.2 **core-course GPA**.
3. Ask your high school counselor to upload your **final official transcript** with proof of graduation to your Eligibility Center account.

Division III

While **Division III schools** set their own admissions and academic requirements, **international student-athletes** (first-year enrollees and transfers) who are enrolling at a Division III school after Aug. 1, 2023, must be certified as an amateur by the Eligibility Center. Contact the Division III school you plan to attend for more information about its academic requirements.

GRADE 9 REGISTER

» If you haven't yet, **register** for a free Profile Page account at **eligibilitycenter.org** for information on NCAA initial-eligibility requirements.

» Use NCAA Research's **interactive map** to help locate NCAA schools you're interested in attending.

» Find your high school's list of NCAA-approved core courses at **eligibilitycenter.org/courselist** to ensure you're taking the right courses, and earn the best grades possible!

GRADE 10 PLAN

» If you're being actively recruited by an NCAA school and have a Profile Page account, **transition** it to the required **certification account**.

» Monitor the **task list** in your NCAA Eligibility Center account for next steps.

» At the end of the school year, ask your high school counselor from each school you attend to upload an official transcript to your Eligibility Center account.

» If you fall behind academically, ask your high school counselor for help finding **approved courses** you can take.

GRADE 11 STUDY

» Ensure your **sports participation** information is correct in your Eligibility Center account.

» Check with your high school counselor to make sure you're on track to complete the required number of NCAA-approved **core courses** and graduate on time with your class.

» Share your **NCAA ID** with NCAA schools recruiting you so each school can place you on its **institutional request list**.

» At the end of the school year, ask your high school counselor from each school you attend to upload an official transcript to your Eligibility Center account.

GRADE 12 GRADUATE

» **Request your final amateurism certification** beginning April 1 (fall enrollees) or Oct. 1 (winter/spring enrollees) in your Eligibility Center account at **eligibilitycenter.org**.

» Apply and be accepted to the NCAA school you plan to attend.

» Complete your final NCAA-approved **core courses** as you prepare for graduation.

» After you graduate, ask your high school counselor to upload your final **official transcript** with proof of graduation to your Eligibility Center account.

How to plan your high school courses to meet the 16 core-course requirement: **4 x 4 = 16**

9th GRADE	10th GRADE	11th GRADE	12th GRADE
(1) English	(1) English	(1) English	(1) English
(1) Math	(1) Math	(1) Math	(1) Math
(1) Science	(1) Science	(1) Science	(1) Science
(1) Social Science and/or other	(1) Social Science and/or other	(1) Social Science and/or other	(1) Social Science and/or other
4 CORE COURSES	4 CORE COURSES	4 CORE COURSES	4 CORE COURSES

CONTACT THE NCAA ELIGIBILITY CENTER

U.S. and Canada (except Quebec):
877-262-1492 (toll free), Monday-Friday
9 a.m. to 5 p.m. Eastern time

@ncaaec @ncaaec @ncaaec @playcollegesports

NCAA ELIGIBILITY CENTER

Registration Checklist

If you want to compete in NCAA sports, you need to register with the NCAA Eligibility Center at **eligibilitycenter.org**. Plan to register before your freshman year of high school (or year nine of secondary school).

Which account type do I need?

1. **Profile Page Account:** If you're not sure in which division you want to compete, or are a domestic student who plans to compete at a **Division III school**, register for a free Profile Page account. If at any time you wish to pursue a Division I or II path, you'll be able to **transition** your account to the required **certification account**.

2. **Academic and Amateurism Certification Account:** You must receive an academic and amateurism certification from the Eligibility Center to compete at an NCAA Division I or II school. You must complete the Academic and Amateurism Certification account registration (including payment or **fee waiver**) before you go on official visits, sign a **National Letter of Intent**, receive an athletics scholarship or compete at a Division I or II school.

3. **Amateurism-Only Certification Account:** If you're an **international student-athlete** (first-year enrollees and transfers), you must receive an amateurism certification from the Eligibility Center to compete at an NCAA Division III school. You must register with a certification account and receive your final amateurism certification before you can compete at a Division III school.

   This account may also be right for domestic students transferring from a two-year school to a Division I or II school who did not require an Eligibility Center academic certification. These students should check with the compliance office at the NCAA school they may attend to determine their required account type.

NCAA ELIGIBILITY CENTER ACCOUNT TYPES

In which division do you plan to compete?	Academic and Amateurism Certification Account	Amateurism-Only Certification Account	Profile Page* Account
Division I			
Any recent high school graduate (**domestic or international**), first-time enrolling at NCAA school.	✓		
Transferring from a two- or four-year college or university. Check with the compliance office at the school you may attend.	✓ OR	✓	
Division II			
Any recent high school graduate (**domestic or international**), first-time enrolling at NCAA school.	✓		
Transferring from a two- or four-year college or university. Check with the compliance office at the school you may attend.	✓ OR	✓	
Division III			
Recent high school graduate (domestic only), first-time enrolling at NCAA school.			✓
Recent high school graduate who maintains a permanent residence **outside of the U.S.**		✓	
Recent high school graduate who attended high school or college **outside of the U.S.** for any time (excluding U.S.-based students who study abroad).	✓ OR	✓ OR	✓
Recent high school graduate (**international only**), first-time enrolling at NCAA school.		✓	
Recent high school graduate who competed **outside of the U.S.**		✓	
Transferring from a two- or four-year college or university, attended domestic high school(s) only.			✓
Transferring from a two- or four-year college or university, attended at least one international high school (**U.S. territories** are considered domestic).		✓	
Division Undecided/Unknown			
Never enrolled full time at a two- or four-year college or university. Best for younger students or before recruiting begins. Can be transitioned to a certification account when needed.			✓

Once you have determined the right account for you, visit **eligibilitycenter.org** to register. A list of information you will need to complete your account is outlined on below. For a Profile Page account, allow 15 minutes to complete. For certification accounts, allow between 30 and 45 minutes to complete. If you need to exit and come back at a later time, you can save and exit once your account is created.

***Unsure which account type is right for you?** Start with our **free Profile Page account**, then check with the compliance office at the NCAA school you may attend. If you need additional assistance, contact the Eligibility Center's Customer Service team at 877-262-1492, 9 a.m. to 5 p.m. Eastern time Monday-Friday for assistance. International students (including Quebec) should use the **International Contact Form** to submit questions.

ELIGIBILITY CENTER REGISTRATION ESSENTIALS

Below are some items you should have with you as you create an account at **eligibilitycenter.org**:

- ☐ **Valid Email for Student**
  To register, you need a valid email address that you check regularly and will have access to ***after*** high school. The Eligibility Center uses email to update you about your account throughout the process. ***Note:*** If you have a sibling who has previously registered, you will need to use a different email address than the one in your sibling's account.

- ☐ **Basic Student Personal Information**
  This includes information such as your name, gender, date of birth, primary and secondary contact information, address and mobile number for texting.

- ☐ **Basic Student Education History**
  We will ask you to provide details about all secondary and high schools and additional programs you attend in the U.S. and internationally. Be sure to include all schools, regardless of whether you received grades or credits. If you attended ninth grade at a junior high school located in the same school system in which you later attended high school, do not list the ninth-grade school.

- ☐ **Student Sports Participation History**
  Select the sport(s) you plan to participate in at an NCAA school. For **certification accounts**, we will ask you to provide details for any expenses or awards you received, any teams you have practiced or played with or certain events in which you participated. We also ask about any individuals who have advised you or marketed your skills in a particular sport. This information helps the Eligibility Center certify your amateur status once you **request your final amateurism certification**.

- ☐ **Payment (Certification Accounts Only)**
  Your Academic and Amateurism or Amateurism-Only Certification account registration is complete only after your registration fee is paid (or upon indicating you're eligible for a **fee waiver**, if you're eligible). You may pay online by debit, credit card or echeck. For the Academic and Amateurism Certification account, the fee for college-bound student-athletes attending a high school in the U.S., **U.S. territories** or Canada is $100; the fee for international students is $160. For students for which an Amateurism-Only Certification account is the right choice, the fee for all students is $70. Profile Page accounts do not have a fee.

  *All fees are nonrefundable 30 days after the certification account fee is paid. If you completed a duplicate registration and paid your registration fee twice, you may be eligible for a refund. To receive a refund, you will need to complete and submit an **NCAA refund form**.*

Unsure if you've already created an account?
Contact Customer Service at 877-262-1492 prior to creating a new account to avoid duplicate account issues during recruiting.

2024–2025 STUDENT ASSESSMENT TESTING CALENDAR	
2024 Assessments	
Test Dates	**STAAR**
Dec 3–Dec 13*	Algebra I English I English II Biology U.S. History
Dec 13 (Fri)	Make-up sessions for tests scheduled to be administered Dec 3–13, 2024, must be completed by the end of this day.
2025 Assessments	
Test Dates	**NAEP (selected sample)**
Assessment Window Late Jan–Early Mar	Long-term Trend
Test Dates	**TELPAS**
Assessment Window Feb 17–Mar 28	TELPAS Grades K–12 Listening, Speaking, Reading, and Writing
Test Dates	**TELPAS Alternate**
Assessment Window Feb 17–Mar 28	TELPAS Alternate Grades 2–12 Listening, Speaking, Reading, and Writing
Test Dates	**STAAR Alternate 2**
Preview Window Mar 3–Apr 18	Test administrators may **only** preview (not administer) the assessments two weeks prior to the opening of the assessment window. Assessments may be previewed anytime during the assessment window.
Assessment Window Mar 17–Apr 18	STAAR Alternate 2 Grades 3–8 and EOC Assessments
2025 Assessments	
Test Dates	**STAAR**
Apr 8–Apr 18*	Grades 3–8 Reading Language Arts English I English II
Apr 18 (Fri)	Make-up sessions for tests scheduled to be administered Apr 8–18, 2025, must be completed by the end of this day.
Apr 15–Apr 25*	Grade 5 Science Grade 8 Science Grade 8 Social Studies Biology U.S. History
Apr 25 (Fri)	Make-up sessions for tests scheduled to be administered Apr 15–25, 2025, must be completed by the end of this day.
Apr 22–May 2*	Grades 3–8 Mathematics Algebra I
May 2 (Fri)	Make-up sessions for tests scheduled to be administered Apr 22–May 2, 2025, must be completed by the end of this day.
Test Dates	**STAAR**
Jun 17–Jun 27*^	Algebra I English I English II Biology U.S. History
Jun 27 (Fri)	Make-up sessions for tests scheduled to be administered Jun 17–27, 2025, must be completed by the end of this day.

*Districts may choose to administer assessments on Monday of the second testing week without submitting a request to TEA.

^If a district is no longer in session (i.e., providing instruction to students) during the June administration window, the district may adjust the testing schedule to test on Monday, June 16, 2025.

April 27, 2023