



**Canyon Independent School District
2023-24
Course Catalog and
Pre-Registration Guide**

**3301 North 23rd Street
Canyon, TX 79015
www.canyonisd.net**

Table of Contents

General Information.....	2
Dual Credit.....	10
Graduation Plans and Requirements.....	12
Course Descriptions.....	23
English Language Arts.....	23
Mathematics.....	27
Science.....	31
Social Studies.....	35
Languages Other than English.....	41
Fine Arts.....	43
Physical Education.....	46
Health.....	48
CTE Courses listed below.....	49
Agriculture, Food and Natural Resources.....	49
Architecture and Construction.....	55
Arts, A/V Technology and Communication.....	57
Business Management and Finance.....	58
Education and Training.....	62
Health Science.....	64
Hospitality and Tourism.....	67
Human Services.....	69
Science, Technology, Engineering And Math.....	70
Law, Public Safety, Corrections and Security... Transportation, Distribution and Logistics.....	75
Career Development.....	76
Course Selection Worksheet.....	77

General Information

This information bulletin is designed to assist students and parents in planning course selections for all four years in high school. Courses are offered in a wide variety of areas for high school students in the Canyon Independent School District. Each course is described along with the specific prerequisites and recommendations to students interest and enrollment.

Course selection and planning for the high school years result in educational decisions that involve the student, parents, counselor, and teachers. It is important that these decisions be made carefully, considering personal objectives, educational goals, and post-high school plans.

This bulletin represents a revision of previous bulletins and supersedes them. Students are accepted into all Canyon ISD courses without regard to race, color, national origin, sex, religion, or handicapping conditions.

Planning Suggestions

Students should carefully read the information included in this bulletin and should discuss it with their parents, teachers, and counselor. The teachers and counselors will be available to students and parents for discussion and educational planning.

These general considerations should be included in planning the student's high school program: 1) requirements for graduation; 2) college entrance requirements; 3) preparation for life work; and 4) courses available at Randall High and Canyon High.

Personal Graduation Plan

Beginning in the 8th grade, students will create personal graduation plans. A student's plan will be a guide for selecting courses to be taken in high school. The student needs to review the personal graduation plan annually and make adjustments prior to the time for selecting courses to be taken in the next school year. Upon entering the 9th grade, a student shall specify in writing an endorsement the student intends to earn. Endorsement options for each high school are outlined in the supplements to this pre-registration guide.

One of the best ways a student can plan effectively for graduation is by identifying general fields of interest. Selecting a general field of interest provides a student with an area of focus that can be of assistance when developing the four-year plan, doing this assures flexibility with a variety of ideas to pursue while in high school.

TEA's Division of College, Career, and Military Preparation has engaged members of the workforce, secondary education, and higher education to advise on the development of programs of study, including coherent sequences of courses, industry-based certifications, and work-based learning to ensure students are prepared for in-demand, high-skill, high-wage careers in Texas. Canyon ISD offers programs of study in the following areas:

Agriculture, Food & Natural Resources
Architecture & Construction
Business, Marketing and Finance
Education and Training
Energy
Government and Public Administration
Health Science
Hospitality & Tourism
Human Services
Information Technology
Law, Public Safety, Corrections & Security
Manufacturing
Science, Technology & Manufacturing
Transportation, Distribution & Logistics

The student's education can be more useful by identifying a program of study and ability as soon as possible. The choice they make will enable them to follow the graduation plan and take the electives that will best help them reach their goals in life.

Course Selection and Registration

After developing a list of courses for the next school year with school personnel, the student is encouraged to review the list with parents. **Each high school student and his/her parents are responsible for the student's course selections.** Under no circumstances should a student depend on any school official to choose the "correct" courses for admission to a college or for a particular program. Counselors and/or faculty will counsel and advise students in making a selection; however, the student and his/her parents make the final course selections. Credit checks are available to students and parents.

Course Availability

Students may contact their counselor to request a change in course selection for the upcoming year up to the schedule change deadline determined by the campus. This deadline is necessary because course offerings, teacher assignments, and class schedules are based upon student requests.

Requests for a course change after the schedule change deadline will be processed through the **Save Committee**. The Save Committee is composed of the student, parent, teachers involved, and a counselor or administrator.

Students may request to develop or add a scheduled course within the first 10 days of the semester. These requests will be considered on a space availability basis and will be processed through the Save Committee. After 10 class days in the semester, students cannot request to drop or add a course.

Schedules may be changed at the discretion of the school administration to balance class size or for other administrative reasons.

Student Classification

Grade level advancement for students in grades 9-12 shall be earned by credits. Changes in grade level classification shall be made at the end of each semester. Grade level promotions will be based on the following:

Less than 5 credits- 9th grade classification

5 credits- 10th grade classification

10 credits- 11th grade classification

15 credits- 12th grade classification

Acceleration

Students wishing to attempt to meet the criteria for grade or course acceleration must meet the following guidelines: a) a formal written application must be completed and filed with the school principal; b) a conference with the student, parent, principal (or designee), and counselor must be conducted to explore the opportunities and to consider all aspects of acceleration; and c) if the decision is made to allow the student to pursue available options for acceleration, a plan will be devised and filed in the student's permanent record file.

Graduation Plans

All students entering the 9th grade beginning in 2014 will be required to enroll in the Foundation High School Program including at least one endorsement. It is highly recommended that the students also earn a distinguished diploma by completing Algebra II and a 4th year of Science. The advantages of a distinguished diploma are listed below.

1. ACT/SAT scores increase in direct proportion to college preparatory courses taken in high school.
2. Higher ACT/SAT scores may enhance scholarship and admission opportunities.
3. Students will be better prepared to take college courses and to compete scholastically.

Superintendent Scholars

Canyon ISD proudly recognizes outstanding achievement in rigorous academic courses for students attending Canyon and Randall High Schools through the Superintendent Scholars program.

Qualifications

To qualify as a Superintendent Scholar, a student must:

- Have a cumulative GPA of 95.00 or better (94.99 will not qualify).
- The District shall **include** in the calculation of Superintendent Scholar grades earned in all high school credit courses taken in the fall or spring semester, unless they are excluded below.
- The calculation of Superintendent Scholar shall **exclude** grades earned in or by physical education; athletics; cheerleading; drill team; band, including stage band; music theory; choir, including show choir; a local credit course; credit by examination, with or without prior instruction; student leadership; theater production; driver education; credits earned off campus for classes such as Access or TexPrep courses; courses for which credit was earned in a non-accredited school, including a homeschool; self-paced computer-based courses such as Edgenuity; credit recovery or acceleration courses; and summer school. In addition, the calculation superintendent scholar shall exclude grades earned through distance learning and dual credit courses taken anywhere other than the district high school.
- Part-time students will not be considered for Superintendent Scholar.

Recognition

_____ Superintendent Scholars who are in the **top 10** at the end of the 5th sixth weeks of the current school year will be recognized at an event in May. The ceremony will include a dinner held for the honorees and their parents hosted by the Superintendent with the Board of Trustees as invited guests. Those students who qualify for Superintendent Scholar but are not in the top 10 will receive their award on their home campuses.

Academic Achievement

Class Rank-- Class rank is based on the cumulative numerical grade average earned in courses taken for high school credit. Courses bearing more than one credit are counted only once in determining the cumulative average.

Five points will be added to the semester average for courses designated as honors or dual credit and ten points will be added to semester average for courses designated as advanced placement for the purpose of determining the cumulative average. The five or ten point weight will not appear on the report card or the Academic Achievement Record (transcript).

GPA Computation

The calculation of class rank shall exclude grades earned in or by physical education; athletics; cheerleading; drill team; band, including stage band; music theory; choir, including show choir; a local credit course; credit by examination, with or without prior instruction; student leadership; theater production; driver education; credits earned off campus for classes such as Access or TexPrep courses; courses for which credit was earned in a non-accredited school, including a homeschool; self-paced computer-based courses such as Edgenuity; credit recovery or acceleration courses; and summer school. In addition, the calculation of class rank shall exclude grades earned through distance learning and dual credit courses taken anywhere other than the District high school.

Honor Students

Honor students are designated following the completion of the fifth six-week period of the senior year. Grades for the fourth and fifth six-weeks are averaged and treated as a semester in this computation. The ten students with the highest averages will be designated as honor graduates.

For two school years following his or her graduation, a student who graduates in the top ten percent and, in some cases the top 25 percent of his or her class is eligible for automatic admission into four-year public universities and colleges in Texas if the student successfully completes the distinguished level of achievement under the Foundation High School Program, the Recommended Program, or Distinguished Achievement Program, or satisfies the SAT and ACT College Readiness Benchmarks.

Senate Bill 175, passed by the 81st Legislature allows the University of Texas at Austin to limit automatic admission to 75% of the university's enrollment capacity designated for first-time undergraduate students.

The University of Texas has determined that it will automatically admit all eligible 2016 summer/fall freshman applicants who rank within the top 6% of their high school graduation classes, with remaining spaces to be filled through holistic review.

Valedictorian/Salutatorian

The valedictorian and salutatorian shall be eligible students with the highest and second highest ranking, respectively. To be eligible for such recognition, a student must:

1. Have been continuously enrolled in the same high school in the District for the two school years immediately preceding graduation; and
2. Have completed the Advanced/Distinguished Achievement Program, or the Foundation Program with a distinguished level of achievement.

Distinguished Level of Achievement

A student may earn a distinguished level of achievement by successfully completing the curriculum requirements for the Foundation High School Program and the curriculum requirements for at least one endorsement required by the Texas Education Code (TEC), §28.025(b-15), including four credits in science and four credits in mathematics to include Algebra II.

Advanced Academic Services/Gifted & Talented

Students may be nominated for the Advanced Academic Services program by teachers, counselors, parents, or interested persons.

Criteria to identify students for the Advanced Academic Services Program shall be established by the Board. The criteria shall be specific to the state definition of gifted and talented and shall ensure the fair assessment of students with special needs, such as the culturally different, the economically disadvantaged, and students with disabilities.

Written parental consent shall be obtained before any special testing or individual assessment is conducted as part of the screening and qualification process. All student information collected during the screening and qualification process shall be an education record, subject to the protections set out in school board policy (FL).

A selection committee composed of at least three professional educators including the district Advanced Academic Services Facilitator shall be established at each campus. This committee shall evaluate each nominated student according to the established criteria and shall select those students for whom the Advance Academic Services program placement is the most appropriate educational setting.

Advanced Academic Services students are encouraged to enroll in Pre-AP and AP courses. These students may also participate in student seminars, field experiences, mentorships, career shadowing, independent research, concurrent enrollment in college courses, and credit by examination for acceleration.

Advanced Placement Program

The Advanced Placement (AP) Program is a cooperative educational endeavor between secondary schools and colleges and universities. Canyon ISD Advanced Placement Program includes honors courses designed to help prepare students for Advanced Placement Courses. The program exposes high school students to college-level material through involvement in AP courses. **Students who enroll in an AP course are expected to take the AP exam in May.** Colleges and universities can grant credit, placement, or both to students who demonstrate mastery on an AP exam.

College and university policies regarding Advanced Placement grades vary. Students seeking college credit through AP are advised to obtain the college's AP policy in writing or to look for it on the college's website. Questions to ask include: What placement, exemption, and credit are granted for satisfactory performance on an AP exam? What minimum AP exam grade qualifies for this treatment? Are there any other requirements to receive credit and/or placement?

AP exams are a significant part of the AP Program, but they are not the only part. AP courses lay the groundwork for students to succeed on the exams. Students can benefit from taking honors and AP courses by learning a subject in greater depth, developing skills that will be critically important to successful college and workforce experience, and demonstrating to colleges and potential employers their willingness to undertake challenging courses.

CISD uses a weighted grade point/grade average system that is designed to recognize the relative difficulty and effort required for honors and AP courses. The additional grade point/points on the grade are used solely for ranking purposes and will not be reflected on the report card, official transcript or academic achievement record. Five points will be added to the semester average for courses designated as honors and ten points will be added to the semester average for courses designated as AP for the purpose of determining the cumulative average.

The Advanced Placement Program is open to all students. A student's participation in a honors or AP course is a decision that should be based on the level of preparation for the course, willingness and ability to meet its academic challenges, and the time a student has to devote to the course. It is strongly recommended that students pass the related STAAR EOC exam for the prior year before enrolling in an AP or honors course.

Alternatives for Gaining Academic Credit

A student may gain credit toward graduation through the alternatives listed below. **PRINCIPAL (or designee) PERMISSION** must be secured **before** participating in any of these alternatives.

1. Correspondence courses through an approved university for high school students grades 9-12. Students pay all fees.
2. Credit by Exam without prior instruction. Students must score 80 percent or above to receive credit.
3. Credit by Exam, with prior instruction, through an approved university. The student must score at least 70 on the examination. Locally developed alternate tests for students with disabilities may be used and approved by the Admission, Review, Dismissal (ARD) committee.
4. Summer school for recovery of credit for failed courses.
5. **Approved** dual credit courses held on college campuses for qualifying high school students in grades 11-12. Students pay all fees and provide their own transportation.
6. Amarillo Area Center for Advanced Learning (AACAL) for high school students. Students must be enrolled in four courses at their home high school. Students pay all fees and provide their own transportation.
7. Amarillo Area Center for Advanced Learning (AACAL) online courses for high school students. Students pay all fees. Students should consult counselors for specific details.
8. Texas Virtual School Network online courses.
9. Edgenuity- individualized computer-based instruction for credit recovery.

See your counselor for information concerning these alternatives. Specific guidelines and procedures must be followed to participate in any of these alternatives.

Transfer Students from Non-accredited Schools

In order to be granted state graduation credit, a high school student transferring to the District from a non-accredited school or home school setting must master, at the 70% level or above, a Credit by Examination from an approved university for each course in which the student received prior instruction. The only exception to this would be successful completion of an advanced level course which correlates with the essential knowledge and skills required in a lower level course. CISD grants credit for only Algebra I and English I in this manner.

Foreign Exchange Students

Foreign exchange students must be approved for attendance **prior** to their arrival at a CISD high school. Foreign exchange students who are approved for attendance are expected to be fluent in the English language. Students must enroll in an English and Mathematics course, and either Government/Economics or U.S. History. Foreign exchange students will receive an honorary diploma upon completion of the senior year.

Requirements for a Diploma

Students must successfully complete the required number of credits and achieve a qualifying score on the English I, English II, Algebra I, Biology, and U.S. History STAAR End-of-Course exams. For further information on the STAAR end-of course assessments, go to <http://www.tea.state.tx.us/student.assessment/staar/>.

Special Services Diploma Requirements

Upon the recommendation of the Admission, Review, and Dismissal (ARD) committee, a student with disabilities may be permitted to graduate under the provisions of his or her Individual Education Plan (IEP).

Declaration of Intent to Graduate Early

Students are encouraged to remain in high school for four years in order to assure receipt of the maximum benefit for further study and/or work. However, early graduation is an option for students who meet graduation requirements. Students, including early graduates are ranked with the class in which they graduate. See your counselor for specific guidelines. These guidelines are also listed in the student handbook.

Commencement Exercises

A student who graduates early may participate in graduation ceremonies. If a student withdraws from school before completing all graduation requirements, he/she will not be allowed to participate in graduation ceremonies without permission from the principal. Enrolled students who are within one and one-half credits of meeting graduation requirements, who plan to complete their course work requirements within three months of finishing their senior year, and/or students who failed to pass the exit-level assessments shall be allowed to participate in commencement activities and ceremonies.

Loss of Credit

A student may not be given credit for a class if the student does not attend the class a minimum of 90% of the time enrolled. Notice will be given when attendance falls below requirements. The student may petition the attendance committee in writing for an award of credit. The committee shall review the student's attendance records and the reasons for absences, and make a determination about awarding credit.

Full Time Status

Students must be enrolled in five (5) for credit classes (at least 240 minutes per day) to be counted as a full time student for ADA and UIL purposes. Courses without a curriculum, such as senior permit, study hall, or office aide, do not count in determining full-time status.

NCAA Clearinghouse

If you are planning to enroll in college as a freshman and you wish to participate in Division I or Division II intercollegiate athletics, your initial eligibility status must normally be determined by the NCAA Initial-Eligibility Clearinghouse. *Ultimately, it is the responsibility of the student and parent to make certain that all NCAA eligibility requirements have been met.*

Points to Remember

1. The requirements for eligibility to participate at Division I differ from those required at Division II.
2. Students normally should register after completion of their junior year in high school and only after an informed judgment has been made as to the prospect's potential at the Division I or Division II level.
3. NCAA academic committees are vested with the authority to grant waivers of the initial eligibility requirements based on objective evidence that demonstrates circumstances in which a student's overall academic record warrants the waiver of the normal application of the legislation.
4. Initial-eligibility waivers must be filed by an NCAA institution on behalf of the student. It is important to note that students with approved diagnosed disabilities may file a waiver on their own behalf.
5. Correspondence, independent study, or credit by exam may not be used to meet the 14 or 16 core-course requirements.
6. Courses taken in the eighth grade may not be used to satisfy the core curriculum requirements, regardless of the course content or level.

7. Students enrolling in a Division I institution may not use courses taken after high school graduation to meet core curriculum requirements. (Note; students with approved diagnosed disabilities may use courses taken after graduation, but prior to full-time college enrollment.)
8. Students with disabilities may receive additional information regarding accommodations by checking the NCAA website at www.ncaa.org.

To be certified by the Clearinghouse, you must earn a grade-point average of at least 2.2 (on a 4.0 scale) in a core curriculum of courses which were successfully completed during grades 9 through 12. Only courses listed as approved on your high school’s “List of NCAA Approved Core Courses” can be used to calculate your NCAA GPA. The chart below indicates the number of years of NCAA core courses that must be completed.

Course	Division I	Division II
English Core	4 years	3 years
Math Core	3 years	2 years
Science Core	2 years	2 years
Social Science Core	2 years	2 years
From English, Math, or Science	1 year	2 years
Additional Core Classes	4 years	4 years
TOTAL CORE UNITS	16	16

For Division II, information please visit the following, [NCAA Division II path to graduation](#). For Division I the minimum ACT or SAT score may vary according to the student’s GPA. See the NCAA Division I Sliding Scale at www.ncaa.org for more information.

The University of Texas at Austin Automatic Admission Policy

The University has determined that it will automatically admit all eligible summer/fall 2024 and spring 2025 freshman applicants who rank within the top 6% of their high school graduating classes, with the remaining spaces to be filled through holistic review.

Dual Credit

Canyon ISD policy allows students to attend college concurrently with their high school courses. A student, with counselor/principal recommendation and approval of the college, may register for a class at West Texas A&M University or Amarillo College.

Amarillo College

Dual Credit Definition and Requirements

The Amarillo College Dual Credit Program is a partnership between a high school and Amarillo College through which a student is awarded both college and high school credit in courses taught at the high schools which meet the requirements of both institutions.

Dual Credit Requirements

To enroll in Dual Credit a student must:

- Comply with state-mandated THEA (Texas Higher Education Assessment) testing requirements.
- Take applicable Amarillo College Placements Tests prior to enrolling in the Dual Credit class.
- Be classified as a junior or senior and have a "B" overall average. Students are subject to assessment testing as required for admission purposes.
- Meet established entrance requirements as Amarillo College as well as appropriate prerequisites for any course.
- Make an online application to Amarillo College.
- Pay the cost associated with taking college courses (including the cost of textbooks) as established by contractual agreement.

See your counselor for details.

Awarding Credit

Amarillo College is responsible for maintaining the college transcript. The high school is responsible for maintaining the high school transcript. Since Dual Credit courses are college courses they will be recorded on the official transcript as such. Each Dual Credit student will also establish a college transcript.

Privacy of Student Records

Student records are confidential. They may be released only for use by faculty and professional staff for authorized college-related purposes. Amarillo College intends to comply fully with the Family Education Rights and Privacy Act of 1974. This Act protects the privacy of educational records. Student records will only be released to the student unless written permission is received for the student to release information to other sources.

CISD DUAL CREDIT COURSES

Course	Section/College Credit Hours at AC
American Sign Language III DC	SGNL 1301 (3 hours) and 1302 (3 hours)
Biology Life Science DC	BIOL 1408 (4 hours) and 1409 (4 hours)
Economics DC (Macroeconomics)	ECON 2301 (3 hours)
English IV DC	ENG 1301 (3 hours) and 1302 at (3 hours)
Health Science EMT	EMSP 1163 (1 hour) and 1501 (5 hours)
Pre-Calculus Honors DC	MATH 1316 (3 hours) and 1414 (4 hours)
Pre-Calculus DC	MATH 1314 (3 hours)
Statistics DC	MATH 1314 (3 hours) and 1342 (3 hours)
Business Math DC	MATH 1324 (3 hours) and 1325 (3 hours)
U.S. Government DC	GOVT 2305 (3 hours)
U.S. History DC	HIST 1301 (3 hours) and 1302 (3 hours)
Public Speaking DC	SPCH 1315 (3 hours)
Psychology DC	PSYC 2301 (3 hours)
Spanish III Honors DC	SPAN 1411 (4 hours) and 1412 (4 hours)
Spanish IV DC	SPAN 2411 (4 hours) and SPAN 2412 (4 hours)
Chemistry DC	CHEM 1411 (4 hours) 1412 (4 hours)
Physics I DC	PHYS 1401 (4 hours)
Physics II DC	PHYS 1402 (4 hours)
Advanced Animal Science **	AGRI 1419 at Frank Phillips College (4 hours)
Advanced Plant and Soil Science**	AGRI 1407 at Frank Phillips College (4 hours)
Cosmetology	Clarendon College

West Texas A&M Pre University Program (PUP) Canyon ISD/West Texas A&M University

Purpose

West Texas A&M University (WTAMU) and Canyon Independent School District (CISD) have chosen to offer high school students dual credit opportunities through the Pre-University Program (PUP) with the purpose of providing excellent campus-based higher education academic experiences for high school students who intend to pursue a university level degree. The best part is that upon approval of an advisor, the courses taken can be for dual credit and only cost \$150. Contact your counseling center for a list of course offerings which would match your career path.

Student Eligibility

High school juniors or seniors are eligible to participate if they have met the eligibility requirements of beginning freshman at WTAMU. The Texas Success Initiative (TSI) is a requirement by the Texas State Legislature. Students must have met these requirements in the areas they plan to take classes. More information regarding TSI is available through Advising Services at WTAMU (806-651-5300).

Student Expectations and Services

Students enrolled in the Pre University Program:

- Are expected to follow University rules and regulations.
- Are classified as students not seeking degrees (undeclared majors).
- Are limited to two (2) WTAMU courses each fall, spring, or summer session.
- Will receive academic advising for course registration at Advising Services.
- Must provide to the Office of Admissions, upon high school graduation, a final high school transcript showing rank in class and graduation date.
- Are not eligible for financial aid while enrolled in Pre-University Program.

High School designees should verify that a student who participates in a college curriculum would not be disqualified from a desired University Interscholastic League (UIL) competition.

Application

High school students applying for admission to the Pre-University Program must submit the following:

- PUP Application
- PUP Student Approval/Semester Advising and Registration Form
- Official high school transcript indicating:
 - Junior or Senior standing and Recommended curriculum
 - GPA or Top 50% of class
- Provide ACCUPLACER scores as required by the Texas Success Initiative (TSI), unless exempt.
 - Exemptions are based on ACT, SAT, and/or STAAR scores. Details at www.wtamu.edu/tsi.
- Proof of Meningitis Vaccination

Please submit documents to the West Texas A&M University Office of Admissions:

E-mail: admissions@wtamu.edu

Fax: 806-651-5285

Or in person: Old Main, Room 124

CANYON ISD
CREDITS REQUIRED FOR GRADUATION

Foundation High School Program

ELA- Four Credits:

- English I, II, and III required.
(English I and II for Speaker of Other Languages may be substituted for English I and II for students with limited English proficiency who are at the beginning or intermediate levels of English Language proficiency.)
- One Advanced ELA credit:
 - English IV
 - Independent Study in English
 - Literary Genres
 - Creative Writing
 - Research and Technical Writing
 - Humanities
 - Public Speaking III
 - Communications Applications (must be combined with another half credit for any of the other courses which will count for Advanced ELA credit.)
 - Oral Interpretation III
 - Debate III
 - Independent Study in Speech
 - Independent Study in Journalism
 - Advanced Broadcast Journalism III
 - Advanced Journalism: Yearbook III
 - AP English IV (English Literature and Composition)
 - Business English
 - After successful completion of English I, II, III, a locally developed English language arts course or activity, including an apprenticeship or training hours needed to obtain an industry-recognized credential or certificate
 - A College Preparatory ELA course designed to achieve College Readiness

Math- Three Credits:

- Algebra I and Geometry required

The additional credit may be selected from one full credit or a combination of 2 half credits from two different courses, subject to pre-requisite requirements, from the following courses or one credit from the second group of math courses listed below.

- Mathematical Models with Applications
- Mathematical Applications in Agriculture, Food, and Natural Resources
- Digital Electronics
- Robotics Programming and Design

The additional credit may be selected from one full credit or a combination of two half credits, subject to pre-requisite requirements, from the following courses:

- Algebra II
- Pre-Calculus
- Advanced Quantitative Reasoning
- Independent Study in Mathematics
- Discrete Mathematics for Problem Solving
- Algebraic Reasoning
- Statistics
- AP Statistics

- AP Calculus AB or BC
- AP Computer Science
- Engineering Mathematics
- Statistics and Risk Management
- Discrete Mathematics for Computer Science
- After successful completion of Algebra II, a math course endorsed by an institution of higher education as a course for which the institution would award course credit or as a prerequisite for a course for which the institution would award course credit.
- After successful completion of Algebra I and Geometry, a locally developed mathematics course or other activity, including an apprenticeship or training hours needed to obtain an industry-recognized credential or certificate.

Important Note: A fourth math credit is required to obtain an endorsement. See details below under *Requirements for Endorsements*.

Science- Three credits:

- Biology or AP Biology required

One credit must be selected for the following lab-based courses:

- Integrated, Physics and Chemistry
- Chemistry
- AP Chemistry
- Physics
- Principles of Technology
- AP Physics I (Algebra-based)

The additional credit may be selected from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements, from the following lab-based courses:

- Chemistry
- Physics
- Aquatic Science
- Astronomy
- Earth and Space Science
- Environmental Systems
- AP Biology
- AP Chemistry
- AP Physics I (Algebra-based)
- AP Physics II (Algebra-based)
- AP Physics C
- AP Environmental Science
- Advanced Animal Science
- Advanced Plant and Soil Science
- Anatomy and Physiology
- Medical Microbiology
- Pathophysiology
- Food Science
- Forensic Science
- Advanced Biotechnology
- Principles of Technology
- Scientific Research and Design
- Engineering Design and Problem Solving
- Principles of Engineering
- After the successful completion of physics, a science course endorsed by an institution of higher education as a course for which the institution would award course credit or as a prerequisite for a course for which the institution would award course credit.

- A locally developed science course or other activity, including an apprenticeship or training hours needed to obtain an industry-recognized credential or certificate.

Important Note: A fourth science credit is required to obtain an endorsement. See detail below under *Requirements for Endorsements*.

Social Studies- Three credits:

- U.S. History, U.S. Government, and Economics are required

The additional credit may be selected from the following courses:

- World History Studies
- World Geography Studies
- Combined World History/World Geography

LOTE (Languages Other than English)- Two Credits:

The courses may be taken from the following options:

- Any two levels of the same language
- Two credits in computer programming languages selected from Pre AP Computer Science I, AP Computer Science II.

If a student, in completing the first credit of LOTE, demonstrates that the student is unlikely to be able to complete the second credit, the student may substitute one of the following.

- Special Topics in Language and Culture
- World History or World Geography
- A credit from another Language Other than English
- A computer programming language course

The determination regarding a student’s ability to complete the second credit of LOTE must be agreed to by:

- The teacher of the first LOTE class, the principal or designee, and the student’s parent or person standing in parental relation
- The student’s ARD committee
- The student’s 504 committee

A student, who due to a disability is unable to complete two credits in the same language in a language other than English, may substitute two credits from the following:

- ELA, Math, Science, or Social Studies
- CTE or Tech App

The determination regarding a student’s ability to complete the LOTE requirement will be made by the student’s ARD or 504 Committee.

Physical Education- One Credit:

The required credit may be selected from any combination of the following one-half to one credit courses:

- Foundations of Personal Fitness
- Aerobic Activities
- Team or Individual Sports
- Adventure/Outdoor Education

In accordance with policy EIF (Local), credit for any of the courses listed above may be earned through participation in the following:

- Athletics
- Cheerleading, Drill Team, or Marching Band (only one substitute credit may be earned)
- JROTC
- Approved private or commercially sponsored P.E. programs conducted on or off campus. Contact the Director of Secondary Education for the approved list.

In accordance with local district policy, the required credit may be earned through completion of a Texas essential knowledge and skills-based course that meets the requirement of 100 minutes of moderate to vigorous physical activity per five-day school week and that is not being used to satisfy another specific graduation requirements.

A student who is unable to participate in P.E. due to disability or illness may substitute an academic elective credit (ELA, Math, Science or Social Studies) for the P.E. requirement.

The determination regarding a student's ability to participate in P.E. will be made by:

- An ARD or 504 committee
- A committee established by the school district with appropriate knowledge of the student if an ARD or 504 Committee is not applicable.

Business Information Management- One Credit (Local CISD required elective):

The following Microsoft Office Certifications are offered to students in the class:

- Word Specialist and Expert
- Excel Specialist and Expert

Fine Arts- One Credit:

The credit may be selected from the following courses:

- Art (any level)
- Choir (any level)
- Band (any level)
- Theatre (any level)
- Dance (any level)
- Principles of Elements of Floral Design
- Digital Art and Animation
- 3-D Modeling and Animation

In accordance with local district policy, credit may be earned through participation in a community based fine arts program not provided by the school district in which the student is enrolled. The district must apply to the commissioner for approval of such programs, which may be substituted for fine arts credit. Any substitute course must address the TEKS for fine arts course as defined in TAC Chapter 117.

Endorsement and Electives- Eight and One-half Credits:

Students will need at least four electives that complete an endorsement and must take an additional five electives (of which two will be the additional Math and the additional Science) to complete the curriculum requirements for the Foundation High School Program with endorsements.

26 TOTAL CREDITS REQUIRED FOR THE FOUNDATION HIGH SCHOOL PROGRAM AND AT LEAST ONE ENDORSEMENT

GENERAL REQUIREMENTS FOR AN ENDORSEMENT

1. A student shall specify in writing an endorsement the student intends to earn upon entering Grade 9.
2. A student must earn at least 26 credits to earn an endorsement.
3. A student will be permitted to enroll in courses under more than one endorsement before their junior year and choose, at any time, to earn an endorsement other than the endorsement they originally indicated.
4. To earn an endorsement, a student must complete one additional math credit (total of four) from one full credit or combination of two half credits from two different courses, subject to pre-requisites from the following courses:
 - a. Algebra II
 - b. Pre-Calculus
 - c. Advanced Quantitative Reasoning
 - d. Independent Study in Mathematics
 - e. Discrete Mathematics for Problem Solving

- f. Algebraic Reasoning
 - g. Statistics
 - h. AP Statistics
 - i. AP Calculus AB or BC
 - j. AP Computer Science
 - k. Engineering Mathematics
 - l. Statistics and Risk Management
 - m. Discrete Mathematics for Computer Science
 - n. After successful completion of Algebra II, a math course endorsed by an institution of higher education as a course or which the institution would award course credit as a prerequisite for a course for which the institution would award course credit.
 - o. After successful completion of Algebra I and Geometry, a locally developed mathematics course or other activity, including an apprenticeship or training hours needed to obtain an industry-recognized credential or certificate.
 - p. Mathematical Models with Applications, if credit is earned prior to September 1, 2015.
 - q. A college preparatory math course designed to achieve college readiness.
5. To earn an endorsement, a student must complete one additional science credit (total of four) from one full credit or a combination of two half credits from two different courses, subject to prerequisite requirements from the science course from the following:
- a. Chemistry
 - b. Physics
 - c. Aquatic Science
 - d. Earth and Space Science
 - e. Environmental Systems
 - f. AP Biology
 - g. AP Chemistry
 - h. AP Physics I (Algebra-based)
 - i. AP Physics II (Algebra-based)
 - j. AP Physics C
 - k. AP Environmental Science
 - l. Advanced Animal Science
 - m. Advanced Plant and Soil Science
 - n. Anatomy and Physiology
 - o. Medical Microbiology
 - p. Pathophysiology
 - q. Food Science
 - r. Forensic Science
 - s. Advanced Biotechnology
 - t. Principles of Technology
 - u. Scientific Research and Design
 - v. Engineering Design and Problem Solving
 - w. Principles of Engineering
 - x. After the successful completion of physics, a science course endorsed by an institution of higher education as a course for which the institution would award course credit or as a prerequisite for a course for which the institution would award course credit.
 - y. A locally developed science course or other activity, including an apprenticeship or training hours needed to obtain an industry-recognized credential or certificate.

Note for students pursuing an Arts and Humanities Endorsement

A student pursuing an arts and humanities endorsement who has written permission of the student's parent or a person standing in parental relation to the student may substitute a course from ELA, Social Studies, Economics, LOTE, or Fine Arts for the additional Science credit requirements.

ENDORSEMENT OPTIONS for the Foundation High School Program:

Please contact your students counseling center.

Canyon High School 806-677-2740

Randall High School 806-677-2333

West Plains High School 806-510-2100

Midway Alternative 806-677-2455

DISTINGUISHED LEVEL OF ACHIEVEMENT for the Foundation High School Program:

A student may earn a *Distinguished Level of Achievement* by completing the following:

- The basic requirements of the Foundation High School Program
- At least one endorsement
- 4 credits in Science
- 4 credits in Math to include Algebra II

NOTE: A student must earn a distinguished level of achievement to be eligible for top 10% automatic admission.

PERFORMANCE ACKNOWLEDGEMENTS for the Foundation High School Program:

A student will receive a *Performance Acknowledgement* for the following:

Outstanding Performance in a Dual Credit Course

- The student must complete 12 hours of college academic courses, including Dual Credit, Advanced Technical Credit, or Locally Articulated Courses with a grade equivalent of 3.0 or higher on a scale of 4.0.
- The student earns an Associate Degree while in High School

Outstanding Performance in Bilingualism and Biliiteracy

- The student must complete all ELA requirements with a minimum grade average of 80 or better.
- The student must complete one of the following:
 - Complete a minimum of three credits in the same language in a Language Other than English with a minimum grade average of 80 or better
 - Complete a Level IV Language with a Grade Average of 80 or better
 - Complete at least three credits in foundation subject courses in a Language Other than English with a Grade Average of 80 or better
 - Demonstrate proficiency on one or more Languages Other than English through one of the following methods:
 - A score of 3 or higher on an AP examination for a Language Other than English
 - A score of 4 or higher on an IB examination for a higher-level Languages Other than English course; or
 - Performance on a national assessment of language proficiency in a Language Other than English of at least Intermediate High or its equivalent.
- In addition, an English Language Learner must also have:
 - Participated in and met the exit criteria for a bilingual or English as a second language program; and
 - Scored at the Advanced High level on the Texas English Language Proficiency Assessment System (TELPAS)

Outstanding Performance on a college Advanced Placement Test

- A student receives a score of three or above on a College Board advanced placement exam

Outstanding Performance on the PSAT, the ACT-PLAN, the SAT or the ACT

- A score on the 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 of the College Board, or as part of the National Achievement Scholarship Program of the National Merit Scholarship Corporation.
- Achieving the college readiness benchmark score on at least two of the four subjects tests on the ACT-PLAN exam.
- A combined critical reading and mathematics score of at least 1250 on the SAT
- A composite score on the ACT exam (without writing) of a 28

Earning a Nationally or Internationally Recognized Business or Industry Certification or License

- Performance on an examination sufficient to obtain a nationally or internationally recognized business or industry certification
- Performance on an examination sufficient to obtain a government-required credential or license

**Graduation Requirements Checklist
Foundation High School Program
With at least one Endorsement**

Any student interested in early graduation needs to see their guidance counselor

Foundation High School Program	Credit	Passed
English I	1.0	
English II	1.0	
English III	1.0	
Advanced English	1.0	
Algebra I	1.0	
Geometry	1.0	
Algebra II or Advanced Math	1.0	
Advanced Math (see note below)	1.0	
Biology	1.0	
Science	1.0	
Science	1.0	
Science	1.0	
World History or World Geography	1.0	
US History	1.0	
US Government	0.5	
Economics	0.5	
Language Other than English I	1.0	
Language Other than English II	1.0	
Physical Education	1.0	
Fine Art	1.0	
BIM	1.0	
Elective	1.0	
TOTAL CREDITS- with endorsement	26.0	

Testing Requirements: Beginning with 9th graders in the 2011-2012 year, end-of-course (EOC) assessments will be administered for the following courses: Algebra I, English I, English II, Biology, and U.S. History.

Note: A student may earn a *Distinguished Level of Achievement* by completing the following:

- The basic requirements of the Foundation High School Program
- At least one endorsement
- 4 credits in Science
- 4 credits in Math to include Algebra II

A student must earn distinguished level of achievement to be eligible for top 10% automatic admission.

**Graduation Requirements Checklist
Foundation High School Program
Without an Endorsement**

Any student interested in early graduation needs to see their guidance counselor

Foundation High School Program	Credit	Passed
English I	1.0	
English II	1.0	
English III	1.0	
Advanced English	1.0	
Algebra I	1.0	
Geometry	1.0	
Algebra II or Advanced Math	1.0	
Biology	1.0	
Science	1.0	
Science	1.0	
World History or World Geography	1.0	
US History	1.0	
US Government	0.5	
Economics	0.5	
Language Other than English I	1.0	
Language Other than English II	1.0	
Physical Education	1.0	
Fine Art	1.0	
Elective	1.0	
TOTAL CREDITS- without endorsement	22.0	

Testing Requirements: Beginning with 9th graders in the 2011-2012 year, end-of-course (EOC) assessments will be administered for the following courses: Algebra I, English I, English II, Biology, and U.S. History.

IMPORTANT REQUIREMENT:

A student may only 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. (Texas Administrative Code Chapter 74, Subchapter B)

Course Descriptions

Any student interested in early graduation needs to see their guidance counselor

English Language Arts

English I

EL1REN, 1 credit, Gr. 9

03220100

Prerequisite- none

In English I, students strengthen skills in reading, writing and word study. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. This course includes an End-of-Course Exam.

Honors English I

EL1PEN, 1 credit, Gr. 9

03220100

Prerequisite- none

Recommendation: 5 average or above in previous year's English course

In English I Honors, students strengthen skills in reading, writing and word study. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. English I Honors differs from the traditional English I course in that it has more depth and complexity of content. This course includes an End-of-Course Exam.

English II

EL2REN, 1 credit, Gr. 10

03220200

Prerequisite- English I

In English II, students strengthen skills in reading, writing, and word study. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze texts, write in multiple modes, research, listen and speak. An emphasis on World Literature will be placed in fiction reading. This course includes an End-of-Course Exam.

Honors English II

EL2PEN, 1 credit, Gr. 10

03220200

Prerequisite- English I

Recommendation: 85 average or above in English I course

In English II Pre-AP, students strengthen skills in reading, writing, and word study. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze texts, write in multiple modes, research, listen and speak. An emphasis on World Literature will be placed in fiction reading. English II Pre-AP differs from the traditional English II course in that it has more depth and complexity of content. This course includes an End-of-Course Exam.

English III

EL3REN, 1 credit, Gr. 11

03220300

Prerequisite- English II

In English III, students strengthen skills in reading, writing, and word study. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. An emphasis on American Literature will be placed in fiction reading.

English III AP- English Language and Composition**EL3AEN, 1 credit, Gr. 11****A3220100****Prerequisite- English II****Recommendation: 85 average or above in English II course**

The AP English Language and Composition course is designed to help you become a skilled reader of a variety of texts as well as becoming a skilled writer. You'll achieve this through awareness of the interactions among a writer's purposes, audience expectations, and subjects, as well as the ways that writing rules and language use contribute to effective writing.

English IV**EL4REN, 1 credit, Gr. 12****03220400****Prerequisite- English III**

In English IV, students strengthen skills in reading, writing, and word study. Students read and write on a daily basis, engaging in activities that build on existing skills as they comprehend and analyze text, write in multiple modes, research, listen, and speak. An emphasis on British authors will be placed in fiction reading.

English IV Dual Credit**EL4REN, 1 credit, Gr. 12****03220400****Prerequisite- English III**

Intensive study of and practice in writing processes, from invention and researching to drafting, revising and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement and style. Focus on writing the academic essay as a vehicle for learning, communicating and critical analysis. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual and multimedia texts; systematic evaluation, synthesis and documentation of information sources; and critical thinking about evidence and conclusions.

English IV AP- English Literature and Composition**EL4AEN, 1 credit, Gr. 12****A3220200****Prerequisite- English III****Recommendation: 85 average or above in English III course; accelerated reading level**

The AP English Literature and Composition course is designed to help you engage in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, you can deepen your understanding of the ways writers use language to provide both meaning and pleasure for their readers. In the course, you'll learn to consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone.

Research and Technical Writing**EL4RTW, 1 credit, Gr. 12****03221100****Prerequisite - English III**

This course helps students develop skills necessary for writing persuasive and informative texts. This composition course asks high school students to skillfully research a topic or a variety of topics and present that information through a variety of media. All students are expected to demonstrate an understanding of the recursive nature of the writing process, effectively applying the conventions of usage and the mechanics of written English.

Oral Interpretation I, II, III**EL2ROI, EL3ROI, EL4ROI, 1-3 credits, Gr. 10-12****03240200, 03240300, 03240400****Prerequisites- Communication Applications, Instructor Approval**

Oral interpretation provides deeper and more intensive study of the program begun in Speech Communication. Interpretative reading is perfected, and more varied speech experiences are offered. Students are expected to participate in UIL and TFA speech contests. Competitive areas are Prose and Poetry Interpretation, Humorous and Dramatic Interpretation Informative and Persuasive Speaking, Original Oratory, Duet Acting, Standard Cross-Examination, and Lincoln-Douglas Debate.

Debate I, II, III**EL2RDB, EL3RDB, EL4RDB, 1-3 credits, Gr. 10-12****03240600, 03240700, 03240800****Prerequisite- Communication Applications, Instructor Approval**

Debate stresses the development of competencies and skills in research, analysis of public issues, formulation of various logical positions on issues, the construction of logical arguments to support positions and the refutation and defense of an argument. Students are expected to participate in UIL and TFA contests.

Journalism**EL1RJR, 1 credit, Gr. 9-12****03230100****Prerequisite- none**

Journalism provides the student with a history of mass-print media in the United States, the contemporary role of mass-print media, and the basic features of journalism. The student will study different forms of journalistic writing, graphics, design, and layout in newspapers and magazines. The student will be prepared to work on the school's yearbook or newspaper the following years.

Advanced Journalism I, II, III- Yearbook**EL2RYB, EL3RYB, EL4RYB, 1-3 credits, Gr. 10-12****03230110, 03230120, 03230130****Prerequisite- Journalism, Instructor Approval, proficiency in word processing**

This class is responsible for production of the school yearbook. Students collect materials, write copy and captions, and complete layouts used by the publishing company. Students are required to meet the public as representatives of the yearbook staff in selling ads. Students with specific ability will be chosen as photographers to provide pictures for school publications. Time outside class is required. Students may be allowed to work in yearbook production more than one year upon special recommendation.

Advanced Journalism I, II, III-Newspaper**EL2RNP, EL3RNP, EL4RNP, 1-3 credits, Gr. 10-12****03230140, 03230150, 03230160****Prerequisite- Journalism, Instructor Approval, proficiency in word processing**

This class is responsible for production of the monthly school paper. Students with outstanding academic ability are requested to join the newspaper production staff. Students write copy, set up paper, and have "camera ready" for printers to produce. Students will be required to work outside class to meet deadlines. Students may be allowed to work in newspaper production more than one year upon special recommendation.

Broadcast Journalism I, II, III**EL1RBJ, EL2RBJ, EL3RBJ, 1-3 credits, Gr. 10-12****Prerequisite- none**

Students need to be critical viewers, consumers, and producers of media. Students will apply and use their journalistic skills for a variety of purposes. Students will learn the laws and ethical considerations that affect broadcast journalism; learn the role and function of broadcast journalism; critique and analyze the significance of visual representations; and learn to produce by creating a broadcast journalism product.

Public Speaking Dual Credit**EL1DPS 1 Credit****03221800****Prerequisite- Communications Applications**

Public Speaking is a Dual Credit with Amarillo College. This course fulfills the AC core requirement of 3 hours of Speech Communication.

Bible Literacy- Old Testament**EL3ROT, .5 credits, Gr. 11-12****03221830**

This course is an elective course on the Hebrew Scriptures (Old Testament) which teaches knowledge of biblical content, characters, poetry and narratives that impact understanding of contemporary society and culture, including literature, art, music, and public policy. The course follows federal and state laws and guidelines in maintaining religious neutrality and accommodating the diverse religious views and perspectives of students.

Bible Literacy-New Testament**EL3RNT, .5 credits, Gr. 11-12****03221840**

This course is an elective course on the New Testament which teaches knowledge of biblical content, characters, poetry, and narratives that impact understanding of contemporary society and culture, including literature, art, music, and public policy. The course follows federal and state laws and guidelines in maintaining religious neutrality and accommodating the diverse religious views and perspectives of students.

Mathematics

Algebra I

MA1RAL, 1 credit, Gr. 9

03100500

Prerequisite- none

Algebra I is the study of fundamental operations using letters for numbers and includes the following: a review of symbols and sets; the use of variables in open sentences; the use of axioms in solving open sentences and problems; how to use directed numbers; how to solve inequalities and use them in problems; how to work with and factor polynomials and how to use this factoring in solving equations and working with fractions; how to graph equations on the coordinate plane; how to solve sentences with two variables; and more about the real-number system. Students primarily work independently and participate in some hands-on-activities to reinforce algebraic concepts. This course includes an End-of-Course Exam.

Honors Algebra I

MA1RAL, 1 credit, Gr. 9

0130500

Prerequisite- none

Recommendations: 85 average or above in previous year's math course

This course provides a more rigorous examination of Algebra I. Algebra I is the study of fundamental operations using letters for numbers and includes the following: a review of symbols and sets; the use of variables in open sentences; the use of axioms in solving open sentences and problems; how to use directed numbers; how to solve inequalities and use them in solving problems; how to work with and factor polynomials and how to use this factoring in solving equations and working with fractions; how to graph equations on the coordinate plane; how to solve sentences with two variables; and more about the real-number system. Students primarily work independently and participate in some hands-on activities to reinforce algebraic concepts. This course includes an End-of-Course Exam.

Algebra II

MA2RAL, 1 credit, Gr. 10-12

03100600

Prerequisite- Algebra I

This course is a continuation of Algebra I for students who need a college-preparatory background in mathematics or science. It is also designed for students who may elect to go into education, pre-engineering, medicine, or vocational fields requiring a mechanical aptitude. Changes in college emphasis on algebra are making it necessary for students interested in the above mentioned fields or related areas to choose Algebra II. Algebra II will include skills associated with linear, quadratic, polynomial, rational, exponential, and logarithmic functions. Algebra II students will also study conic sections and complex numbers.

Honors Algebra II

MA2PAL, 1 credit, Gr. 10-12

03100600

Prerequisite- Algebra I

Recommendation: 85 average or above in Algebra I

This course provides a more in-depth examination of algebra, particularly in the areas of functions, curve-fitting, parametric equations, recursive definitions, quadratic relations, and logarithms. This course is designed to prepare students for the College Board Advanced Placement Calculus Exam. Students not planning to work toward the exam should consider taking the regular course. A student enrolled in this course should have their own graphing calculator.

Geometry**MA1RGE, 1 credit, Gr. 10-12****0310700****Prerequisite- Algebra I**

Geometry provides a good basic knowledge of geometric principles and reasoning power. Major topics include proof and logic, the line, the plane, triangles, similar figures, circles, constructions, the coordinate plane areas of plane regions, and solid geometry. Students will be required to participate in the discovery process, including the use of manipulatives and computer technology.

Geometry Pre-AP**MA1PGE, 1 credit, Gr. 9-11****0310700****Prerequisite- Algebra I****Recommendation: 85 average or above in Algebra I**

Geometry Pre-AP is academically more rigorous than the traditional geometry course. It provides for a more in-depth study, particularly in the areas of tessellations, construction of geometric figures, and an investigation of non-Euclidean geometry. This course is designed to prepare students for the College Board Advanced Placement Calculus Exam. Students not planning to work toward the exam should consider taking the regular course.

Pre-Calculus**MA3RPC, 1 credit, Gr. 11-12****03101100****Prerequisite- Algebra II, Geometry**

Pre-calculus combines the concepts of analysis and trigonometry with opportunities for more in-depth study and for independent and group application of math principles. All college bound students should definitely consider Pre-calculus. This course work is considered entry level at most universities. It includes the study of elementary functions, including trigonometric, based on examination of the properties of number systems. Topics studied also includes mathematical induction, sequences and series, limits, vectors, continuity, and a brief introduction to differential and integral calculus.

Pre-Calculus DC (College Algebra 1314)**MA3RPA, 1 credit, Gr-11-12****03101100****Prerequisite- Algebra II, Geometry**

Prerequisite-Algebra II, Geometry

The Pre-calculus portion includes the essential knowledge and skills of the traditional analysis course with opportunities for more in depth study and for independent and group application of math principles. The algebra portion includes the study of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series and conics may be included.

Honors Precalculus DC (College Algebra 1314 and College Trig 1316)

MA3PDP, 1 credit, Gr. 11-12

03101100

Prerequisite- Algebra II, Geometry

Pre-calculus includes the essential knowledge and skills of the traditional analysis course with opportunities for more in depth study and for independent and group application of math principles. The algebra portion includes the study of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series and conics may be included. The Trig portion deals with an in-depth study and applications of trigonometry including definitions, identities, inverse functions, solutions of equations, graphing and solving triangles. Additional topics such as vectors, polar coordinates and parametric equations may be included.

Statistics Dual Credit o (College Algebra 1314, College Statistics 1342)

MA4DST, 1 credit, Gr. 11-12

03102530

Prerequisite- Algebra I

College Algebra/Statistics Dual Credit is designed for students majoring in non-stem fields in college. The course is an in-depth study of algebra and statistics. The algebra portion includes the study of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series and conics may be included. The statistics portion includes collection, analysis, presentation and interpretation of data, and a study of probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Students will discover how statistics is used for decision making in various fields such as education, business, and marketing.

Business Math DC (Business Math 1324 and Business Math 1325)

MA4DBM, 1 credit, Gr. 11-12

03102500

Prerequisite- Algebra II

Business Math DC includes Math 1324 and Math 1325 credit at Amarillo College. This course is for Business majors. It includes the study of matrices, linear programming, quadratics, exponential and logarithmic functions, rational functions and graphs, finance, and probability. Stresses problem solving related to business applications. The second part includes calculus for business topics such as study of limits and continuity, derivatives and integration as applied to business and the social sciences.

Math for Medical Professionals

MA3RMMP, 1 credit, Gr. 11-12

13020970

Prerequisite- Algebra II, Geometry

The Mathematics for Medical Professionals course is designed to serve as the driving force behind the Texas essential knowledge and skills for mathematics, guided by the college and career readiness standards. By embedding statistics, probability, and finance, while focusing on fluency and solid understanding in medical mathematics, students will extend and apply mathematical skills necessary for health science professions. Course content consists primarily of high school level mathematics concepts and their applications to health science professions.

Math Models with Applications**MA1RMA, 1 credit, Gr. 10-11****03102400****Prerequisite- Algebra I**

This mathematics course provides a path for students to succeed in Algebra II and prepares them for various post-secondary choices. Students learn to apply mathematics through experiences in personal finance, science, engineering, fine arts, and social sciences. Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, model information, solve problems, and communicate solutions.

College and Career Math**MA4RCCM, 1 credit, Gr. 12****CP111200****Prerequisite Algebra I**

College and Career Math is designed to prepare students to meet the college readiness requirements of post-secondary education.

AP Calculus AB**MA4ACA, 1 credit, Gr.12****A3100101****Prerequisite- Pre-Calculus**

The curriculum will include the concepts of the limit of function, integration and differentiation of functions, and infinite series. Calculus is designed for students who plan to take advanced mathematics in college. Students will be prepared to take the College Board Advanced Placement Test.

AP Statistics**MA4AST, 1 credit, Gr. 11-12****A3100200****Prerequisite- Algebra II, Geometry**

This course will introduce the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Students who successfully complete the course and exam may receive credit, advanced placement, or both for a one-semester introductory college statistics course typically required for majors in social sciences, health science, and business. Science, engineering, and mathematics majors usually take an upper-level calculus-based course in statistics, for which this course is effective preparation. Students who take the course are strongly encouraged to take the AP Statistics exam.

AP Computer Science (*Listed in CTE list as well*)**TA3ADC, 1 credit, Gr. 11-12****A3580100****Prerequisite- Algebra II, BIM,**

Computer Science I is a course covering problem solving, computer architecture, and programming concepts. Students are expected to use problem solving skills in the construction of programs in a contemporary programming language. When developing program solutions, Computer Science I students will be required to consider clarity of expression (readability), program maintenance, ease of debugging, program extension, utility, and validity. Concept mastery of a contemporary programming language, creation of solutions which are well-structured in nature, and the creation of both structured and modular programs is emphasized in Computer Science I, along with proper syntax and efficient, effective programming style. Computer Science I students will also engage in algorithmic analysis, which requires the ability to work with abstract concepts such as variable data representation and problem solving heuristics.

Science

Biology

SC1RBIS, 1 credit, Gr. 9-12

03010200

Prerequisite- none

In Biology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Biology study a variety of topics that include: structures and functions of cells and viruses; growth and development of organisms; cells, issues, and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; and ecosystems and the environment. This course includes an End-of-Course Exam.

Honors Biology

SC1PBI, 1 credit, Gr. 9-12

03010200

Prerequisite- none

Biology Pre-AP is designed for students interested in going into Biology AP during their junior or senior years. In Biology Pre-AP, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Biology study a variety of topics that include: structures and functions of cells and viruses; growth and development of organisms; cells, issues, and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; and ecosystems and the environment. This course includes an End-of-Course Exam.

Biology AP

SC2ABI 1 credit, Gr. 10-12

A3010200

Prerequisite- Biology and Chemistry or Chemistry taken concurrently with Biology AP

Biology AP is a college course designed for students who have a special interest in biology. The first semester concentrates on the biochemical and molecular aspects of biological processes. The second semester deals with an in depth look at the kingdoms, body systems, and ecological principles that govern living systems. College level laboratory investigations are used to support the curriculum and engage students in the scientific process. Students will be prepared to take the College Board Advanced Placement Test.

Biology Dual Credit (BIOL 1408 and 1409)

SC2RDB (Dual Credit), 1 credit, Gr. 10-12

13037200

Prerequisite- Biology and Chemistry

Biology 1408 will provide a survey of biological principles with an emphasis on humans, including chemistry of life, cells, structure, function and reproduction. Laboratory activities will reinforce lecture content.

Biology 1409 will provide a survey of biological principles with an emphasis on humans, including evolution, ecology, plant and animal diversity and physiology. Laboratory activities will reinforce lecture content.

Integrated Physics and Chemistry (IPC)

SC1RPC, 1 credit, Gr. 9-10

03060201

Prerequisite- none

In Integrated Physics and Chemistry, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. This course integrates the disciplines of physics and chemistry in the following topics: force, moon, energy, and matter.

Chemistry

SC1RCM, 1 credit, Gr. 10-12

03040000

Prerequisite- Algebra I

Chemistry is an introductory course designed to give a student a broad background in basic concepts of chemistry. The study includes fundamentals of atomic structure, chemical nomenclature, chemical reactions, stoichiometry solutions, acids and bases, composition of gasses, and nuclear chemistry. Appropriate problems and laboratory experiments are designed to reinforce concepts.

Honors Chemistry

SC1PCM, 1 credit, Gr. 10-12

03040000

Prerequisite- Algebra I

Recommendation: 85 average or above in Algebra I

Pre-AP Chemistry is an introductory course preparing students to take AP Chemistry as a second Chemistry course. The study includes fundamentals of atomic structure, chemical nomenclature, chemical reactions, stoichiometry solutions, acids and bases, composition of gasses, and nuclear chemistry. This is a course that requires greater mathematical problem solving ability, and logic than a general chemistry course. (Most students taking this course are on an accelerated track in mathematics).

Chemistry AP

SC2ACM or SC2ADC (Dual Credit), 1 credit, Gr. 11-12

A3040000

Prerequisite- Chemistry, Physics may be taken concurrently

This is a college, laboratory-oriented course. It includes an extensive review of topics covered in Chemistry I and an introduction to reactions in aqueous solutions, redox, molecular geometry, and hybridization. Curriculum is based on the advanced placement format for both lecture and lab. Students will be prepared to take the College Board Advanced Placement Test.

Physics

SC2RPH, 1 credit, Gr. 11-12

03050000

Prerequisite- Algebra II

In Physics, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion; changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics. Students who successfully complete Physics will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with colleagues, and develop critical thinking skills.

Honors Physics

SC2PPH, 1 credit, Gr. 11-12

03050000

Prerequisite- Algebra II

Pre-AP Physics is designed for students interested in being better prepared going into Physics 1 AP during their junior or senior years. Students do not have to take this course before taking Physics 1 AP. In Physics, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: laws of motion; changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics.

AP Physics 1 (Algebra Based)**SC2AP1 1 credit, Gr. 11-12****03050003****Prerequisite- Geometry, Concurrent with Algebra II**

AP Physics 1 is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. Students will be expected to take the AP exam.

AP Physics II (Algebra Based)**SC3AP2 1 credit, Gr. 11-12****093050004****Prerequisite- Physics I AP or Pre-AP Physics**

AP Physics 2 is an algebra-based, introductory college-level physics course that explores topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields electromagnetism; physical and geometric optics; and quantum, atomic and nuclear physics. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. Students will be expected to take the AP exam.

Environmental Systems**SC3TES 1 credit, Gr. 11-12****03020000****Prerequisite-none**

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. Students study a variety of topics that 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.

Forensic Science**LA3RFS, 1 credit, Gr. 11-12****13029500****Prerequisite- none**

Forensic Science is a course focusing on the drive to unlock the mystery of crimes through the application of science. This course will complement the curriculums of criminal justice, biology, and chemistry courses, and will involve the study of both historical and modern crimes. Forensic Science is designed to provide students with an introductory understanding of criminology and the processes by which criminologists use the scientific method to analyze data as evidence. Knowledge and skills will be gained in hair/fiber analysis, blood type analysis, bloodstain patterns, DNA, anthropology (skeletal analysis), fingerprint comparison, toxicology (drug and poison analysis), etc. However, course content will be flexible and based on student interest and/or current events. Forensics is a CTE course in the Law, Public Safety, Corrections and Security Cluster.

Anatomy and Physiology**HS3RAP, 1 credit, Gr. 11-12****13020600****Prerequisite- Biology**

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

Biology Dual Credit- Life Science**SC2RDB, 1 credit, Gr. 11-12****13037200****Prerequisite- Biology, Chemistry**

Life Science is a Non-Majors science course offering credit to students who will not major in the sciences or engineering when entering college. It is a hands-on, collaborative, and interactive survey of major topics in biology with an emphasis on plants and animals and their interactions with the world around them. Special focus is placed on the chemistry and biology of living systems, especially humans, and the process of science and research.

Astronomy**SC3RAS, 1 credit, Gr. 11-12****03060100****Prerequisite- one unit of High School Science**

In Astronomy, students conduct laboratory and field investigations, use scientific methods, and make informed decisions using critical thinking and scientific problem solving. Students study the following topics: astronomy in civilization, papers and objects in the sky, our place in space, the moon, reasons for the seasons, planets, the sun, stars, galaxies, cosmology, and space exploration. Students who successfully complete Astronomy will acquire knowledge within a conceptual framework, conduct observations of the sky, work collaboratively, and develop critical thinking skills.

Advanced Animal Science/Advanced Plant and Soil Science Dual Credit (CTE)**AG4DAS and AG4DPS, 1 credit, Gr. 11-12****13000700 and 13002100****Prerequisite- Must complete at least one year from Principles of AG, Livestock Production, Equine Science, or Vet Med Applications**

This course is an advanced science course which will count for the 4th year of science. The course will be 60% classroom work and 40% lab work. Topics covered will be animal disease and treatment, advanced animal systems, genetics, and ecological and economic impact of livestock. The FFA component will focus on developing level 5 leaders, community service, and various leadership development and career development activities. Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. Investigation, laboratory practices, and field exercises will be used to develop an understanding of current plant and soil science. 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.

Social Studies

World History Studies

SS1RWH, 1 credit, Gr. 9-12

03340400

Prerequisite- none

World History Studies is the only course offering students an overview of the entire history of humankind. The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilization as well as in civilizations in other parts of the world. Students evaluate the causes and effects of political and economic imperialism and of major political revolutions since the 17th century. Students examine the impact of geographic factors on major historical events and identify the historic origins of contemporary economic systems. Students analyze the process by which democratic-republican governments evolved as well as the ideas from historic documents that influenced that process. Students trace the historical development of important legal and political concepts. Students examine the history and impact of major religious and philosophical traditions. Students analyze the connections between major developments in science and technology and the growth of industrial economies, and they use the process of historical inquiry to research, interpret, and use multiple sources of evidence.

Honors World History Studies

SS1PWH, 1 credit, Gr. 9-12

03340400

Prerequisite- none

World History Studies is the only course offering students an overview of the entire history of humankind. The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Traditional historical points of reference in world history are identified as students analyze important events and issues in western civilization as well as in civilizations in other parts of the world. Students evaluate the causes and effects of political and economic imperialism and of major political revolutions since the 17th century. Students examine the impact of geographic factors on major historical events and identify the historic origins of contemporary economic systems. Students analyze the process by which democratic-republican governments evolved as well as the ideas from historic documents that influenced that process. Students trace the historical development of important legal and political concepts. Students examine the history and impact of major religious and philosophical traditions. Students analyze the connections between major developments in science and technology and the growth of industrial economies, and they use the process of historical inquiry to research, interpret, and use multiple sources of evidence. In Pre-AP students will be required to read and comprehend primary and secondary source documents. Synthesize, categorize, generalize and evaluate information to help prepare for the AP History test.

World Geography Studies
SS1RWG, 1 credit, Gr. 9-12
03320100

Prerequisite- none

In World Geography Studies, students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on the events of the past and present. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major landforms, climates, and ecosystems and their interrelationships; the political, economic, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of world population; relationships among people, places, and environments; and the concept of region. Students analyze how location affects economic activities in different economic systems throughout the world. Students identify the processes that influence political divisions of the planet and analyze how different points of view affect the development of public policies. Students compare how components of culture shape the characteristics of regions and analyze the impact of technology and human modifications on the physical environment. Students use problem-solving and decision-making skills to ask and answer geographic questions.

Honors World Geography Studies
SS1PWG, 1 credit, Gr. 9-12
03320100

Prerequisite- none

In World Geography Studies, students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on the events of the past and present. A significant portion of the course centers around the physical processes that shape patterns in the physical environment; the characteristics of major landforms, climates, and ecosystems and their interrelationships; the political, economic, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of world population; relationships among people, places, and environments; and the concept of region. Students analyze how location affects economic activities in different economic systems throughout the world. Students identify the processes that influence political divisions of the planet and analyze how different points of view affect the development of public policies. Students compare how components of culture shape the characteristics of regions and analyze the impact of technology and human modifications on the physical environment. Students use problem-solving and decision-making skills to ask and answer geographic questions. In Pre-AP students will be required to read and comprehend primary and secondary source documents. Synthesize, categorize, generalize and evaluate information to help prepare for the AP History test.

AP Human Geography
SS2AYHG, 1 credit, Gr. 10-12
A3360100

Prerequisite-none

Students in this course will explore how humans have understood, used, and changed the surface of Earth. You'll use the tools and thinking processes of geographers to examine patterns of human population, migration, and land use.

US History**SS3RUS, 1 credit, Gr. 11-12****03340100****Prerequisite- none**

In this course, which is the second part of a two-year study of U.S. history that begins in Grade 8, students study the history of the United States since Reconstruction to the present. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies of the Cold War and post-Cold War eras, and reform movements including civil rights. Students examine the impact of geographic factors on major events and analyze the causes and effects of the Great Depression. Students examine the impact of constitutional issues on American society, evaluate the dynamic relationship of the three branches of the federal government, and analyze efforts to expand the democratic process. Students describe the relationship between the arts and the times during which they were created. Students analyze the impact of technological innovations on the American labor movement. Students use critical-thinking skills to explain and apply different methods that historians use to interpret the past, including points of view and historical context. This course includes an End-of-Course Exam.

US History Dual Credit**SS3RDU, 1 credit, Gr. 11-12****03340100****Prerequisite- none**

Students enrolled at Amarillo College and pay registration, purchase required college textbooks, and receive 3 hours of college credit per semester (6 hours total credit for the year). Students in this course study the American History curriculum from 1492 until present day. The regular American History curriculum covers Reconstruction until present day. The course requires consistent writing and outside reading with college level exams. This course includes an End-of-Course Exam.

US History AP**SS3AUS or SS3ADU (Dual Credit), 1 credit, Gr. 11-12****A3340100****Prerequisite- none**

Students in this course study the American History curriculum from 1492 until present day. The regular American History curriculum covers Reconstruction until present day. This course will prepare students to take the College Board Advanced Placement Examination. Many colleges grant credit and/or placement for qualifying scores on this exam. The course requires extensive and consistent writing and research of primary documents and in-depth knowledge and analysis of historical information. This course includes an End-of-Course Exam.

US Government**SS4RGV, .5 credit, Gr. 12****03330100****Prerequisite- none**

In Government, the focus is on the principles and beliefs upon which the United States was founded and on the structure, functions, and powers of government at the national, state, and local levels. This course is the culmination of the civic and governmental content and concepts studied from Kindergarten through required secondary courses. Students learn major political ideas and forms of government in history. A significant focus of the course is on the U.S. Constitution, its underlying principles and ideas, and the form of government it created. Students analyze major concepts of republicanism, federalism, checks and balances, separation of powers, popular sovereignty, and individual rights and compare the U.S. system of government with other political systems. Students identify the role of government in the U.S. free enterprise system and examine the strategic importance of places to the United States. Students analyze the impact of individuals, political parties, interest groups, and the media on the American political system, evaluate the importance of voluntary individual participation in a democratic society, and analyze the rights guaranteed by the U.S. Constitution. Students examine the relationship between governmental policies and the culture of the United States. Students identify examples of government policies that encourage scientific research and use critical-thinking skills to create a product on a contemporary government issue .

US Government Dual Credit**SS4RDG, .5 credit, Gr. 12****03330100****Prerequisite- none**

Students enroll at Amarillo College and pay registration, purchase required textbooks, and receive 3 hours of college credit for the semester. The course examines the foundation of the United States political system, and traces the development of the United States government system and its structure and functions. The course requires consistent writing and outside reading with college level exams. Students must be prepared to do college level work.

US Government and Politics AP**SS4AGV, .5 credits, Gr. 12****A3330100****Prerequisite- none**

This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students will be prepared to take the College Board Advanced Placement Test,

Economics

EC4REC, .5 credits, Gr. 12

03310300

Prerequisite- none

Economics with Emphasis on the Free Enterprise System and its Benefits is the culmination of the economic content and concepts studied from Kindergarten through required secondary courses. The focus is on the basic principles concerning production, consumption, and distribution of goods and services in the United States and a comparison with those in other countries around the world. Students examine the rights and responsibilities of consumers and businesses. Students analyze the interaction of supply, demand, and price and study the role of financial institutions in a free enterprise system. Types of business ownership and market structures are discussed, as are basic concepts of consumer economics. The impact of a variety of factors including geography, the federal government, economic ideas from important philosophers and historic documents, societal values, and scientific discoveries and technological innovations on the national economy and economic policy is an integral part of the course. Students apply critical-thinking skills to create economic models and to evaluate economic-activity patterns.

Economics Dual Credit

EC4RDE, .5 credits, Gr. 12

03310300

Prerequisites- none

This is a course in macroeconomics. Topics include national income, money and banking, public finance, and international trade. Current issues and trends in economics are explored. Macroeconomics is required for the majority of business majors, and can be used as an elective in other degree plans. Check with the college you plan to attend to be certain if Macroeconomics will count toward your degree plan.

Macroeconomics AP

EC4AMA, .5 credits, Gr. 12

A3310200

Prerequisite- none

The essential concepts of economics are covered with in-depth analysis and examination. A variety of activities will be used to provide opportunities for higher level and critical thinking skills. The activities include interpreting economic data, analyzing internet resources, conducting discussions, business projects, stock market investing, and a research paper. This course will prepare a student to take the College Board Advanced Placement Examination in Micro/Macroeconomics. Many colleges grant credit and/or placement for qualifying scores on this exam. The student will be responsible for the examination fee if he or she elects to take the examination, which is offered each May.

Psychology

SS2RPS, .5 credits, Gr. 12

03350100

Prerequisite- none

This one-semester class will define and analyze the tools, techniques, and terminology of psychology. Human growth and development (including learning and language development, the thinking and creative processes, motivation and emotion) will be explored. Development of self-concept and relationships with individuals and groups will also be part of the curriculum.

Psychology Dual Credit

SS2DPS .5 credits, Gr.12

03350100

Prerequisite-none

General Psychology is a survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes.

Sociology**SS2RSO, .5 credits, Gr. 10-12****03370100****Prerequisite- none**

This course will define and analyze the tools, techniques, and terminology of sociology. Students will have the opportunity to analyze types of groups and group interactions, analyze social institutions and social problems in selected cultures, understand the impact of media on groups, and analyze forms of propaganda and propaganda techniques.

Personal Financial Literacy**SS2RPF, .5 credits, Gr. 9-12****03380082**

The course will teach students to apply critical-thinking and problem-solving skills to analyze decisions involving earning and spending, saving and investing, credit and borrowing, insuring and protecting, and college and postsecondary education and training. There are many references to conducting a cost-benefit analysis for spending and investing decisions. Students evaluate the necessity of the purchase, the quality or value of the purchase or investment compared to other alternatives, and the total cost of acquisition, particularly in the context of financing options. Students also understand the power of both compound growth on investments and compound interest on debt and how these concepts affect the ability to build wealth over time.

Languages Other than English

American Sign Language I

LO1RSL, 1 credit, Gr. 9-12

03980100

Prerequisite- none

American Sign Language I incorporates expressive and receptive communication skills. Students will develop communication skills by using knowledge of the language, including grammar, culture, communication and other areas to socialize, interact, and express feelings and opinions. Students will also study deaf history and medical causes of deafness. There will be career exploration in the areas of deaf education, the medical field, and counseling. Students will also study the deaf culture and deaf community.

American Sign Language II

LO2RSL, 1 credit, Gr. 10-12

03980200

Prerequisite- ASL I

Students will incorporate more vocabulary, structure, grammar, and delve into the basics of the deaf culture. Class will be conducted mainly in sign language. Progress will be evaluated per socialization with deaf adults and deaf children.

American Sign Language III DC

LO3RDS, 1 credit, Gr. 11-12

03980300

Prerequisite- ASL II

Students will incorporate more vocabulary, structure, grammar, and delve into the basics of the deaf culture. Class will be conducted mainly in sign language. Progress will be evaluated per socialization with deaf adults and deaf children.

Spanish I

LO1RSP, 1 credit, Gr. 9-12

03440100

Prerequisite- none

The student negotiates meaning through the spoken and written exchange of information in rehearsed and unrehearsed situations in a variety of contexts. The student uses a mixture of words, phrases, and some simple sentences with appropriate and applicable grammar structures and processes at the specified proficiency levels. The student comprehends sentence-length information from culturally authentic print, digital, audio, and audiovisual materials as appropriate within highly contextualized situations and sources. The student uses the interpretive mode in communication with appropriate and applicable grammatical structures and processes at the specified proficiency levels. The student presents information orally and in writing using appropriate proficiency level.

Spanish II

LO2RSP, 1 credit, Gr. 10-12

03440200

Prerequisite- Spanish I

The student negotiates meaning through the spoken and written exchange of information in rehearsed and unrehearsed situations in a variety of contexts. The student uses a mixture of short statements and sentences with appropriate and applicable grammar structures and processes at the specified proficiency levels. The student comprehends simple connected statements from culturally authentic print, digital, audio, and audiovisual materials as appropriate within contextualized situations and sources. The student uses the interpretive mode in communication with appropriate and applicable grammatical structures and processes at the specified proficiency levels. The student presents information orally and in writing at the appropriate proficiency level.

Honors Spanish II**LO2PSP, 1 credit, Gr. 10-12****03440200****Prerequisite- Spanish I**

Course content will be the same as Spanish II. However, this class will be faster paced, and designed for those students who plan to take Spanish III Pre-AP. The course includes listening, comprehension, and speaking are again stressed in Spanish II, using classroom audio-visual equipment. More reading, writing, and grammar are offered. Films and special projects supplement the textbook presentation of Spanish-speaking cultures.

Spanish III Honors**LO3PSP, 1 credit, Gr. 11-12****03440300****Prerequisite Spanish 2**

Course content will be the same as Spanish II. However, this class will be faster paced, and designed for those students who plan to take Spanish IV AP. The course includes listening, comprehension, and speaking, again stressed in Spanish III, using classroom audio-visual equipment. More reading, writing, and grammar are offered. Films and special projects supplement the textbook presentation of Spanish-speaking cultures.

Spanish III Dual Credit**LO3PDS, 1 credit, Gr. 11-12****03440300DC****Prerequisite- Spanish II**

In Spanish III, students should express meaning in a variety of contexts by creating with the language, easily combining and recombining what they know, what they read, and what they hear in a mixture of sentences and connected discourse. In listening and writing students should be able to express meaning in highly predictable contexts through the use of memorized and recalled words and phrases.

Spanish IV Dual Credit**LD4DSSM1 / LD4DSSM2, 1 credit Gr. 11-12****03440400DC****Prerequisite- Spanish III**

The consolidation of skills acquired at the introductory level. Further development of proficiency in listening, speaking, reading and writing. Emphasis on comprehension, appreciation and interpretation of the cultures of the Spanish-speaking world.

Spanish IV AP Language and Culture**LO5ASP, 1 credit, Gr. 12****A3440100**

Spanish will be used exclusively in the classroom. Grammar study will be in the form of constant review. Literature becomes a more integral part of the class. Develop your Spanish language skills and learn about the cultures in Spanish-speaking parts of the world. You'll practice communicating in Spanish and study real-life materials such as newspaper articles, films, music, and books.

Spanish V AP Literature and Culture**LO4ASP, 1 credit, Gr. 12****A3440200****Recommendation: 80 average or above in Spanish III.**

Spanish will be used exclusively in the classroom. Grammar study will be in the form of constant review. Literature becomes a more integral part of the class. Build your language skills and cultural knowledge by exploring works of

literature written in Spanish. Using Spanish to communicate, you'll read, analyze, discuss, and write about works by Spanish, Latin-American, and U.S. Hispanic authors of different periods.

Fine Arts

Art I

FA1RAR, 1 credit, Gr. 9-12

0300100

Prerequisite- none

Art I is designed as a full-year (two consecutive semesters) general art course. It includes twelve weeks of design study and three weeks each of sculpture, ceramics, textiles, commercial art, printmaking, drawing, and painting. Experiences in the use of water color, tempera paint, plaster, clay, pencil, ink, charcoal, found materials, yarn, cut paper, and Plexiglas are all included. Art I also includes a study of art culture and heritage. Originality is stressed in all courses. There will be a \$10.00 fee per semester.

Art II, III, IV Drawing

FA2RDR, 1 credit, Gr. 10-12

03500500, 03501300, 03502300

Prerequisite- Art I

Art II Drawing will be used as a basis in further study and development of drawing, printmaking, and commercial art with some painting and sculpture. There will be a \$10.00 fee per semester.

Art II, III, IV Painting

FA2RPT, 1 credit, Gr. 10-12

03500600, 03501400, 03502400

Prerequisite- Art I

Art II Painting includes further study into painting including its history, techniques, and vocabulary. The course involves practical work in watercolor, tempera, dyes, acrylics and oils. There will be a \$15.00 fee per semester.

Art II, III, IV Ceramics

FA2RCM, 1 credit, Gr. 10-12

03501100, 03502000, 03502900

Prerequisite- Art I

Art II/Ceramics includes a further study into ceramics with its history, design, and vocabulary. Practical work in pottery includes the coil, slab, & other methods as well as some time on the ceramic wheel. There will be a \$15.00 fee per semester.

Art II, III, IV Jewelry

FA2RJW, 1 credit, Gr. 10-12

03501100, 03502000, 03502900

Prerequisite- Art I

Jewelry is a basic course in which students will study the history of jewelry and explore methods of jewelry making from primitive jewelry using polymer clay to modern techniques using paper, casting, and metal fabrication. There will be a \$15.00 fee per semester.

Band I, II, III, IV**FA1RBD, FA2RBD, FA3RBD, FA4RBD, 1-4 credits, Gr. 9-12****03150100, 03150200, 03150300, 03150400****Prerequisite- Junior High Band or Equivalent Audition**

Band offers advanced training in instrumental music. Advanced technical study on band instruments, individual assistance on tryout materials for honor groups, and an extensive solo and ensemble program are offered for individual development of players in the band. For group performances in marching and concert, the best band music, in keeping with the capability of the group as a whole, is selected. The principal goals of the band for its members are to improve the individual musical competency of its members and to stimulate an appreciation of fine music through performance and listening. The high school bands perform at all football games and occasionally perform at other schools and civic functions. UIL Contest as well and festivals are entered annually. Every other year, the high school bands are allowed to qualify for an extended overnight trip. Rehearsals and performances will be required outside of regular school hours and on some Saturdays, especially during the fall semester. In addition, all students will meet once weekly outside of class for section rehearsals. Band starts a few weeks prior to the beginning of school.

Choir I, II, III, IV**FA1RCH, FA2RCH, FA3RCH, FA4RCH, 1-4 credits, Gr. 9-12****03150900, 03151000, 03151100, 03152100****Prerequisite- none**

This choir is a training group for Chorale and is primarily a freshman and/or sophomore choir. Members of this choir will participate in public concerts as well as compete in UIL contests outside of regular school hours.

Choral Music I, II, III, IV**FA1RCR, FA2RCR, FA3RCR, FA4RCR, 1-4 credits, Gr. 9-12****03150900, 03151100, 03151100, 03152100****Prerequisite- Director Approval, Audition**

The Chorale is open to all interested students who qualify through auditions held in the spring and fall of each year, or who have director approval.

Vocal Ensemble I, II, III, IV**FA1RVE, FA2RVE, FA3RVE, FA4RVE, 1-3 credits, Gr. 10-12****03152100, 03152200, 03152300, 03152400****Prerequisite- Audition; concurrent membership in choir**

This class is designed for the advanced students who are selected by audition. This group studies various types of popular styles and is used as a performing group for civic clubs, banquets, assemblies, and other functions. Auditions are held in the spring for the following year.

Music Theory**FA3RMT, 1 credit, Gr. 10-12****03152700****Prerequisite- Instructor Approval**

Music Theory is designed for students to develop an understanding of music, music theory, and music history. Students will develop knowledge of music history, and how music has evolved over time. A study of music theory will include learning fundamental and advanced music concepts, which will enable students to write their own compositions and analyze the composition of other composers.

AP Music Theory**FA4RMT, 1 credit, Gr. 11-12****A3150200****Prerequisite- Instructor Approval**

The AP Music Theory course corresponds to one-to-two semesters of typical, introductory college music theory coursework that covers topics such as musicianship, theory, and musical materials and procedures

Theatre Arts I, II, III, IV**FA1RTA(B,I or A) FA2RTA(B,I or A) FA3RTA(B,I or A), FA4RTA(B,I or A), 1-4 credits, Gr. 9-12****03250100, 03250200,03250300, 03250400****Prerequisite Theatre Arts I- none**

Theatre Arts I is a study of theatre as one of the chief divisions of art and literature. Students will study the fundamentals of acting, voice and diction, and history of the theatre.

Prerequisite Theatre Arts II, III, and IV- Audition and Instructor Approval

Advanced Theatre Arts is a study of advanced techniques of characterization and acting. All students must audition for admittance to class. Class size will be 20 students.

Theatre Production I, II, III, IV**FA1RTP, FA2RTP, FA3RTP, FA4RTP, 1-3 credits, Gr. 10-12****03250700, 03250800, 03250900, 03251000****Prerequisite- Audition and instructor approval**

This course will primarily deal with the process of producing the musical, One Act, and Three Act plays. Work on construction of sets, props, and lighting will be taught. Admittance is by instructor approval.

Technical Theatre I, II, III, IV**FA1RTT, FA2RTT, FA3RTT, FA4RTT, 1-4 credits, Gr. 9-12****03250500, 03250600, 03251100, 03251200****Prerequisite- Audition and Instructor Approval**

Technical Theatre includes the construction of the sets and props used in productions. The fundamentals of set design, lighting, and sound will be additional focuses.

Technical Theatre Design II,III,IV**FA2RTTD, FA3RTTD, FA4RTTD 1-3 credits, Gr. 10-12****03253500, 03253600, 03253700****Prerequisite-Technical Theatre I, Audition and Instructor Approval**

Technical Theatre Design includes advanced instruction in costume and makeup design.

Physical Education

Foundations of Personal Fitness

PE1RPE, .5-1 credit, Gr. 9-12

PES00052

Prerequisite- none

Foundations of Personal Fitness represents a new approach in physical education and the concept of personal fitness. 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.

Aerobic Activities

PE1RAA, .5-1 credit, Gr. 9-12

PES00054

Prerequisite- none

Students in aerobic activities are exposed to a variety of activities that promote health-related fitness. A major expectation of this course is for the student to design a personal fitness program that uses aerobic activities as a foundation.

Individual or Team Sports

PE1RIT, .5-1 credit, Gr. 9-12

PES00055

Prerequisite- none

Students in this course will participate in a wide range of individual and team sports that can be pursued for a lifetime. The continued development of health-related fitness and the selection of individual or team sport activities that are enjoyable is a major objective of this course.

Athletics I, II, III, IV

.5-1 credit, Gr. 9-12

PES00000, PES00001, PE S00002, PES00003

Prerequisite- Admission by Tryouts

Athletics is a voluntary elective that is offered to those students who can excel in some physical activity and who have a desire to compete on an interschool basis. Physical examinations may be required for participation. Athletics offers opportunities to learn practical lessons of life and test one's capacity to function as a citizen in society through the following sports:

Men's Activities	Women's Activities
Football	Volleyball
Cross Country	Cross Country
Tennis	Tennis
Basketball	Basketball
Track	Track
Baseball	Fastpitch Softball
Golf	Golf
Soccer	Soccer
Wrestling	Wrestling

Students will have to engage in practice outside of regular class time, plus competitions may be in the evening, on weekends, or during vacation breaks. When a student enrolls in athletics, he/she agrees to adhere to the CISD athletic policies. **Full Time Status** : Students must be enrolled in five (5) for credit classes (at least 240 minutes per day) to be counted as a full time student for ADA and UIL purposes. Courses which do not count include: senior permit, study hall, and office aide.

Health Education

Health I

HE1RHL, .5 credits, Gr. 9

03810100

Prerequisite- none

In Health 1, students develop skills that will make them health-literate adults. Students gain a deeper understanding of the knowledge and behaviors they use to safeguard their health, particularly pertaining to health risks. Students are taught how to access accurate information that they can use to promote health for themselves and others. Students use problem-solving, research, goal-setting and communication skills to protect their health and that of the community.

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

- Livestock Production

Level 3

- Veterinary Medical Application

Level 4

- Advanced Animal Science
- 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
<ul style="list-style-type: none"> Participate in Texas FFA 	<ul style="list-style-type: none"> Participate in an FFA supervised agriculture experience

Industry-Based Certifications

- Elanco Fundamentals of Animal Science Certification
- Elanco Veterinary Medical Applications Certification
- Feedyard Technician in Cattle Care and Handling



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.

Applied Agricultural Engineering 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

Level 3

- Agricultural Structures Design and Fabrications

Level 4

- Practicum in Agriculture, Food, and Natural Resources

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> • Tour Manufacturing Facilities and Shops • Participate in Texas FFA 	<ul style="list-style-type: none"> • Earn a welding certification • Participate in an FFA supervised agriculture experience

Industry-Based Certifications

- AWS D1.1 Structural Steel
- AWS D9.1 Sheet Metal Welding
- Feedyard Technician in Machinery Operation, Repair and Maintenance

Postsecondary Opportunities

Associates Degrees

- Amarillo College Level 1 Certification
- Heavy Equipment Maintenance Technology/ Technician
- 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, General

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.

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 2/3

- Floral Design

Level 4

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

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> Participate in Texas FFA 	<ul style="list-style-type: none"> Work at a florist or landscaper business Participate in an FFA supervised agriculture experience

Industry-Based Certifications

- Texas State Florist's Association Knowledge Based Floral Certification
- Texas State Florist's Association Level I Floral Certification

Postsecondary Opportunities

Associates Degrees

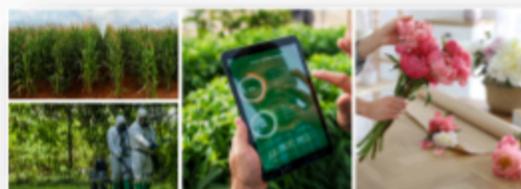
- Applied Horticulture/ Horticulture Operations, General
- Ornamental Horticulture
- Agricultural Business and Management, General
- Turf and Turfgrass Management

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



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



Principles of Agriculture, Food and Natural Resources

AG1RPA, 1 credit, Gr. 9-12

13000200

Prerequisite- none

To be prepared for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture and agriculture leadership organizations such as FFA. This course allows students to develop knowledge and skills regarding premier leadership, personal growth and career success, globalization, industry standards, practices, and expectations. To prepare for success, students need to have opportunities to learn, reinforce experience, apply, and transfer their knowledge and skills in a variety of settings including the classroom, supervised agricultural experiences and FFA opportunities.

Livestock Production

AG2RLP, 1 credit, Gr. 10-12

13000300

Prerequisite- none

Industry Based Certification- Elanco Fundamentals of Animal Science

To be prepared for careers in the field of animal science, students need to attain academic skills and knowledge, acquire knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding premier leadership, personal growth and career success, 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 including the classroom, supervised agricultural experiences, and FFA opportunities. Animal species to be addressed in this course may include, but are not limited to, beef cattle, dairy cattle, swine, sheep, goats, rabbits, and poultry.

Veterinary Medical Applications

AG2RVM, 1 credit, Gr. 10-12

13000600

Prerequisite- none

Industry Based Certification- Elanco Veterinary Medical Application Certification

This course allows students to develop knowledge and skills regarding premier leadership, personal growth and career success, globalization, industry standards, practices, and expectations. Topics covered in this course include, but are not limited to, veterinary practices as they relate to both large and small animal species. To prepare for success, students need to have opportunities to learn, reinforce experience, apply, and transfer their knowledge and skills in a variety of settings including the classroom, supervised agricultural experiences and FFA opportunities.

Advanced Animal Science DC (CTE)

AG4DAS 1 credit, Gr. 11-12

13000700

Prerequisite- Biology and Chemistry or Integrated Physics and Chemistry (IPC); Algebra I and Geometry; and either Small Animal Mgt., Equine Science or Livestock Production

This course is an advanced science course which will count for the 4th year of science. The course will be 60% classroom work and 40% lab work. Topics covered will be animal disease and treatment, advanced animal systems, genetics, and ecological and economic impact of livestock. To prepare for success, students need to have opportunities to learn, reinforce experience, apply, and transfer their knowledge and skills in a variety of settings including the classroom, supervised agricultural experiences and FFA opportunities. Students have the option to earn 4 hours of Dual Animal Science credit.

Floral Design

AG2RFL, 1 credit, Gr. 10-12

13001800

Prerequisite- none

**Industry Based Certification Texas State Floral Assc. (TFSA) Knowledge Based Floral Certification
Industry Based Certification TSFA Level One Floral Certification**

This course develops a student's 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. TSFA certification is available. To prepare for success, students need to have opportunities to learn, reinforce experience, apply, and transfer their knowledge and skills in a variety of settings including the classroom, supervised agricultural experiences and FFA opportunities.

Advanced Floral Design(Lab optional)

AG3RFL, 1 or 2 credit, Gr 11-12

N1300270 (1 credit without lab)

13001810 (2 credit with lab)

Prerequisite- Floral Design

This course is a project based course. Students will advance in the understanding of management and enterprise. Students will learn more advanced design concepts. To prepare for success, students need to have opportunities to learn, reinforce experience, apply, and transfer their knowledge and skills in a variety of settings including the classroom, supervised agricultural experiences and FFA opportunities.

Advanced Plant and Soil Science DC (CTE)

AG4DPS, 1 credit, Gr. 11-12

13002100

Prerequisite- Must complete at least one year from Principles of Ag, Livestock Production, Equine Science or Vet Med Applications

This course is an advanced science course which will count for the 4th year of science. Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. Investigation, laboratory practices, and field exercises will be used to develop an understanding of current plant and soil science. To prepare for success, students need to have opportunities to learn, reinforce experience, apply, and transfer their knowledge and skills in a variety of settings including the classroom, supervised agricultural experiences and FFA opportunities. Students have the option to earn 4 hours of Dual Agronomy credit.

Agricultural Mechanics and Metal Technology

AG1RMM, 1 credit, Grade 10-12

13002200

Recommended Principles of Agricultural Food and Natural Resources

Safety Certification OSHA 10 Hour

Industry Based Certification American Welding Society (AWS) D1.1 Structural Steel

Industry Based Certification AWS D9.1 Sheet Metal

Agricultural Mechanics and Metal Technologies is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metalworking techniques.

Agricultural Structures Design and Fabrication**AG2RFD, 1 credit, Grade 11-12****13002300****Recommended Agricultural Mechanics and Metal Technology**

In Agricultural Structures Design and Fabrication, students will explore career opportunities, entry requirements, and industry expectations. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings.

Practicum in Agricultural**AG4RPA, 2 credit, Grade 11-12****13002500****Recommended prerequisite: a minimum of one credit from the courses in the Agriculture, Food, and Natural Resources Career Cluster**

Practicum in Agriculture, Food, and Natural Resources is designed to give students supervised practical application of knowledge and skills.

Agribusiness Management and Marketing/ Ag Economics Dual Credit**AG3RMG or AG3DMG, 1 credit, Gr. 10-12****13000900****Prerequisite- none**

To be prepared for careers in agribusiness systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to agribusiness marketing and management and the workplace, and develop knowledge and skills regarding career premier leadership, personal growth, and 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 including the classroom, a supervised agriculture experience, and FFA opportunities. This course is designed to provide a foundation to agribusiness management and the free enterprise system. Instruction includes the use of economic principles such as supply and demand, budgeting, record keeping, finance, risk management, business law, marketing, and careers in agribusiness. Students have the option to earn 3 hours of Dual Ag Economics credit.

Ag Leadership, Research, and Communication**AG2RLRC, 1 credits, Gr. 10-12****N1300266****Prerequisite- none**

To be prepared for careers in agribusiness systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to leadership development and the workplace, and develop knowledge and skills regarding agricultural career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings including the classroom, supervised agricultural experience, and FFA opportunities. This course primarily focuses on leadership, communication, employer-employee relations, and problem solving as they relate to agribusiness.

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.

Carpentry Statewide Program of Study



The Carpentry program of study explores the occupations and educational opportunities related to constructing, installing, or repairing structures and fixtures made of wood, such as concrete forms (including frameworks, partitions, joists, studding, rafters, and stairways). This program of study may also include exploration into installing, dismantling, or moving machinery and heavy equipment according to layout plans, blueprints, or other drawings.

Secondary Courses for High School Credit

Level 1

- Principles of Construction

Level 2

- Construction Technology I

Level 3

- Construction Technology II
- Mill & Cabinetmaking Technology

Level 4

- Practicum in Construction Technology
- Career Preparation I

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none">Shadow a carpenter or millwrightParticipate in SkillsUSA	<ul style="list-style-type: none">Obtain an NCCER certification in Millwright Level 1 or Carpentry Level 1

Industry-Based Certifications

- NCCER CORE Certification

Postsecondary Opportunities

Associates Degrees

- Carpentry/Carpenter
- Industrial Mechanics and Maintenance Technology

Bachelor's Degrees

- Construction Science

Master's, Doctoral, and Professional Degrees

- Construction Management



Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Carpenters	\$35,922	5,031	26%
Cost Estimators	\$63,939	2,239	21%

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



Principles of Construction**AR1RPC, 1 credit, Gr. 9-12****13004220****Prerequisite- none**

Principles of Construction provides an overview of the various fields of construction science, and construction technology. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, educational, and career information to set and achieve realistic career and educational goals. Job-specific, skilled training can be provided through the use of training modules to identify career goals in trade and industry areas. Safety and career opportunities are included, in addition to work ethics and job-related study in the classroom such as communications; problem solving and critical thinking; Information Technology Applications; systems; safety, health, and environmental; leadership and teamwork; ethics and legal responsibilities; employability and career development; technical skills; introduction to hand tools; introduction to power tools; basic rigging; and reading technical drawings. Students will be required to pay a small amount for materials for this course. See the instructor for details.

Construction Technology I**AR2RCT, 2 credits, Gr. 10-12****13004220****Prerequisite- Principles of Construction**

In Construction Technology, students gain knowledge and skills specific to those needed to enter the workforce as carpenters or building maintenance supervisors or prepare for a post secondary degree in construction management, architecture, or engineering. Students acquire knowledge and skills in safety, tool usage, building materials, codes, and framing.

Construction Technology II**AR4RCT, 2 credits, Gr. 10-12****13005300****Prerequisite- Principles of Construction**

In Construction Technology II, students will gain advanced knowledge and skills needed to enter the workforce as carpenters, building maintenance technicians, or supervisors or to prepare for a post secondary degree in construction management, architecture, or engineering. Students will build on the knowledge base from Construction Technology I and are introduced to exterior and interior finish out skills.

Mill and Cabinetmaking Technology**AR4RMC, 2 credits, Gr. 10-12****13005300****Prerequisite- Principles of Construction**

In Mill and Cabinetmaking Technology, students gain knowledge and skills specific to those needed to enter the workforce in the area of millwork and cabinet manufacturing and installation. The student may also apply these skills to professions in carpentry or building maintenance supervision or use the skills as a foundation for a post secondary degree in construction management, architecture, or engineering. Students acquire knowledge and skills in cabinet design, tool usage, jointing methods, finishes, and numerical and computer control production methods. An initial materials cost is a requirement for this course. Other costs may be required for additional project materials. See the instructor for details.

Practicum in Construction**AR4RPCT, 2 Credits, Gr. 11-12****13005250****Prerequisite- Mill and Cabinetmaking Technology or Construction Technology II**

In Practicum in Construction Technology, students will be challenged with the application of knowledge and skills gained in previous construction-related coursework. In many cases students will be allowed to work at a job (paid or unpaid) outside of school or be involved in local projects the school has approved for this class.

Interior Design I**AR1RID, 1 credit, Gr. 10-12****13004300****Prerequisite- none**

Interior Design I is a technical course that addresses psychological, physiological, and sociological needs of individuals by enhancing the environments in which they live and work. Students will use knowledge and skills related to interior and exterior environments, construction, and furnishings to 50 make wise consumer decisions, increase productivity, promote sustainability, and compete in the industry.

Interior Design II**AR3RID, 2 credits, Gr. 11-12****13004400****Prerequisite- Interior Design I**

Interior Design II is a technical laboratory course that includes the application of the employability characteristics, principles, processes, technologies, communication, tools, equipment, and materials related to interior design to meet industry standards.

Arts, A/V Technology and Communication***Professional Communications*****AT1RPC, .5 credits, Gr. 9-12****13009900****Prerequisite- none**

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

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.

Entrepreneurship Statewide Program of Study



The Entrepreneurship program of study teaches CTE learners how to plan, direct, and coordinate the management and operations of public or private sector organizations. Through this program of study, students will learn the skills necessary to formulate policies, manage daily operations, analyze management structures, and plan for the use of materials and human resources.

Secondary Courses for High School Credit

Level 1

- Business Information Management Systems I

Level 2

- Principles of Business, Marketing and Finance

Level 3

- Entrepreneurship

Level 4

- Practicum in Business Management
- Career Preparation I

Work-Based Learning and Expanded-Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> • Participate in Business Professionals of America, Future Leaders of America, or DECA 	<ul style="list-style-type: none"> • Intern with a local business

Industry-Based Certifications

- Entrepreneurship and Small Business

Postsecondary Opportunities

Associates Degrees

- Business Administration and Management
- Business/Commerce
- Public Administration
- Business Management

Bachelor's Degrees

- Business Administration and Management
- Business/Commerce
- Public Administration
- Management Science

Master's, Doctoral, and Professional Degrees

- Business Administration and Management
- Business/Commerce
- Public Administration
- Management Science



Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
General and Operations Managers	\$107,640	18,679	20%
Management Analysts	\$87,651	4,706	32%
Managers, All Others	\$113,110	1,794	26%

Successful completion of the Entrepreneurship 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

Level 2

- Business Information Management Systems I

Level 3

- Accounting I

Level 4

- Accounting II
- Practicum in Business Management (PRO)
- Career Preparation I

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

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> Participate in Business Professionals of America, Future Business Leaders of America, or DECA 	<ul style="list-style-type: none"> Intern with a local accounting firm Earn Microsoft Office certifications

Industry-Based Certifications

- Intuit QuickBooks Certified User

- Microsoft Office Specialist-(Word, Excel, Powerpoint)

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



Business Information Management I (Microsoft Office Certification Offered)

(BIM- Microsoft Office Suite Applications)

BA1RBI, 1 credit, Gr. 9-12

13011400

Prerequisite- none

In Business Information Management I, students will improve their personal skills for success at work and in everyday life by developing practical computer skills for business by creating documents, working with spreadsheets, preparing electronic presentations, and utilizing databases. Students will be more ready for work and further education after completing this course. Students can sit for Microsoft Office Specialist (MOS) certification exam as a part of BIM I.

Principles of Business, Marketing and Finance

BA1RPB, 1 credit, Gr. 9-12

13011200

Prerequisite- none

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, global business practices, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This 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.

Entrepreneurship (School Store Operations)

BA1REN, 1 credit, Gr. 11-12

13034400

Prerequisite- Principles of Business, Marketing and Finance

IBC-Small Business and Entrepreneurship Certification

Driving is required

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. The primary focus of the course is to help students understand the process of business operations. During this class the students will be broken up into "departments" such as Human Resources, Accounting/Finance, Marketing, Store Management, Inventory Management, Order Management in order to gain the necessary experience of business operations. The students will learn about market research and promoting the business (school store) as well as being involved in designing products and ideas. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

Accounting I

FI2RAC, 1 credit, Gr. 10-12

13016600

Prerequisite- none

IBC - Intuit Quickbooks Online Certification

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

Accounting II

FI3RAC, 1 credit, Gr. 11-12

13016700

Prerequisite- Accounting I

IBC - Intuit Quickbooks Online Certification

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

Practicum in Business Management (PRO or School Store Second Year)

BA3RPBM, 2 Credits Gr. 11-12

13012200

Prerequisite-recommended BIM and Principles of Business Management

Driving is Required

Practicum in Business Management PRO is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education use of financial resources .

Practicum in Business Management School Store II is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in an unpaid opportunity to manage and run the school store with minimal supervision. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education use of financial resources .

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

Level 2

- Child Development

Level 3

- Instructional Practices

Level 4

- Practicum in Education and Training

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> • Participate in the Texas Association of Future Educators or Family, Career, and Community Leaders of America 	<ul style="list-style-type: none"> • Teach a community education class • Intern as a teaching assistant or tutor • Serve as a camp counselor

Industry-Based Certifications

- Educational Aide I

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



Principles of Education and Training

ED1RPET, 1 credit, Gr. 9-12

13014200

Principles of Education and Training is designed to introduce learners to the various careers available within the Education and Training Career Cluster. Students use self-knowledge as well as educational and career information to analyze various careers within the Education and Training Career Cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.

Child Development

HU2RCD, 1 credit, Gr. 10-12

13024700

Prerequisite- none

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

Instructional Practices (Educational Aide 1 Certification Offered)

ED2RPET, 2 credit, Gr 11-12

13014400

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

Practicum in Education and Training

ED3RPET, 2 credit, Gr 11-12

13014500

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

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.

Healthcare Therapeutic 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/Health Science Clinical

Level 4

- Practicum in Health Science PCT
- Practicum in Health Science EMT

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> • Participate in SkillsUSA or Health Occupation Students of America 	<ul style="list-style-type: none"> • Volunteer at a community wellness center, hospital, assisted living, or nursing home

Industry-Based Certifications

- Emergency Medical Technician(EMT) - Basic
- Patient Care Technician(PCT)

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



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 – March 2023



Principles of Health Science**HS1RPH, 1 credit, Gr. 9-11****13020200****Prerequisite- none**

The Principles of Health Science course provides an overview of the development systems of the healthcare industry. This course is an introduction to the healthcare industry and career options with emphasis on career exploration.

Medical Terminology**HS1RMT, 1 credit, Gr. 10-12****13020300****Prerequisite- none**

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

Anatomy and Physiology**HS3RAP, 1 credit, Gr. 11-12****13020600****Prerequisite- Biology and a second science**

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

Health Science- Theory/ Clinicals**HS2RHC, 2 credits, Gr. 11-12****13020400****Prerequisite- Biology****Recommended prerequisite- Principles of Health Science**

The Principles of Health Science Theory/Clinical course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the healthcare industry. Students will have the opportunity to learn alongside local healthcare professionals.

Practicum in Health Science PCT-**HS3RCN, 1 credit, Gr. 12****13020500****Prerequisite-Biology, Health Science Theory****Recommended prerequisite- Principles of Health Science and Medical Terminology****IBC Patient Care Technician**

This is a practicum designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. In this course, students will have the opportunity to earn certification as a Certified Patient Care Technician. PCT will be offered for two periods during the 1st Semester. PCT will be offered for two periods during the 1st Semester. Students have 3 options for the 2nd Semester: 1) Practicum in Health Science EMT, 2) a paid apprenticeship with BSA, 3) an unpaid PRO internship with a health care provider.

Practicum in Health Science- EMT DC (EMT Certification Offered)

HS3RDH, 1 credit, Gr. 12

13020500

Prerequisite-Biology, Health Science Theory

Recommended prerequisite- Principles of Health Science and Medical Terminology

EMT teaches skills necessary for a student to provide entry level emergency medical care, life support, and ambulance service. The EMT course is an introductory course to concepts, knowledge, and skills needed by EMTs in the areas of communications, transportation, and recordkeeping. Students interested in working in public safety, including fire, police, and ambulance operators will be capable of performing the job expectations of an EMT safely and effectively after the completion of this course. EMT will be offered for two periods during the 2nd Semester.

Hospitality and Tourism Career Cluster

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

Culinary Arts Statewide Program of Study



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

Secondary Courses for High School Credit

Level 1

- Principles of Hospitality and Tourism

Level 2

- Introduction to Culinary Arts

Level 3

- Culinary Arts

Level 4

- Advanced Culinary Arts
- Career Preparation I

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> Participate in Family, Career, and Community Leaders of America, SkillsUSA, American Culinary Federation, or the Texas Restaurant Association 	<ul style="list-style-type: none"> Plan a catering event or work for a catering company Participate in a cooking course Work in a restaurant

Industry-Based Certifications

- ServSafe Manager

Postsecondary Opportunities

Associates Degrees

- Hotel and Restaurant Management
- Restaurant Culinary and Catering Management
- Hospitality Administration/ Management, General
- Culinary Arts/ Chef Training

Bachelor's Degrees

- Hotel and Restaurant Management
- Food Service Systems Administration/ Management
- Hospitality Administration/ Management, General
- Culinary Science and Food Service Management

Master's, Doctoral, and Professional Degrees

- Hotel and Restaurant Management
- Food Service Systems Administration/ Management
- Hospitality Administration/ Management, General
- Business Administration Management, General



Aligned Occupations

Occupations	Median Wage	Annual Openings	% Growth
Food and Beverage Managers	\$55,619	1,561	28%
Chef and Head Cooks	\$43,285	1,366	25%
Food Science Technicians	\$34,382	236	11%

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



Introduction to Culinary Arts**HT1RCA, 1 credit, Gr. 9-12****13022600****Prerequisite-none**

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

Culinary Arts (ServSafe Manager Certification Offered)**HT3RCA, 2 credits, Gr. 11-12****13022600****Prerequisite- recommended Introduction to Culinary Arts**

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification, a Texas culinary specialist certification, or any other appropriate industry certification.

Advanced Culinary Arts**HT4RCA, 2 credits, Gr. 11-12****13022650****Prerequisite- Culinary Arts, (ServSafe Manager Certification Required)**

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

Human Services

Lifetime nutrition and wellness

HU2RNW, .5 credits, Gr. 10-12

13024500

Prerequisite- none

Lifetime Nutrition and Wellness is a laboratory course that allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences.

Cosmetology 1 (Includes Intro to Cosmetology)

HU1RCT, 3 credits, Gr. 11-12

13025200

Prerequisite- none

In Cosmetology I, students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the Texas Department of Licensing and Regulation (TDLR) requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included.

Cosmetology II (Principles of Cosmetology Design and Color)

HU2RCT, 3 credits, Gr. 12

13025300

Prerequisite- Cosmetology I

In Cosmetology II, students will demonstrate proficiency in academic, technical, and practical knowledge and skills. The content is designed to provide the occupational skills required for licensure. Instruction includes advanced training in professional standards/employability skills; Texas Department of Licensing and Regulation (TDLR) rules and regulations; use of tools, equipment, technologies and materials; and practical skills.

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

- Honors Computer Science 1

Level 2

- AP Computer Science A Math

Level 3

- Computer Science III

Level 4

Courses taken at WTAMU

- Independent Study in Technology Applications
- Independent Study in Evolving/Emerging Technologies

Work-Based Learning and Expanded Learning Opportunities

Exploration Activities	Work-Based Learning Activities
<ul style="list-style-type: none"> • Join TSA • Participate in coding club at school 	<ul style="list-style-type: none"> • Obtain an industry-based certification

Industry-Based Certifications

- TBD

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



Honors Computer Science I

TA2RCS, 1 credit, Gr. 9-12

03580200

Prerequisite- Algebra I

Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts.

AP Computer Science A/ II

TA3ACS, 1 credit, Gr. 11-12

A3580100

Prerequisite- Algebra II, BCIS or BIM, Computer Programming Recommended

Computer Science I is a course covering problem solving, computer architecture, and programming concepts. Students are expected to use problem solving skills in the construction of programs in a contemporary programming language. When developing program solutions, Computer Science I students will be required to consider clarity of expression (readability), program maintenance, ease of debugging, program extension, utility, and validity. Concept mastery of a contemporary programming language, creation of solutions which are well-structured in nature, and the creation of both structured and modular programs is emphasized in Computer Science I, along with proper syntax and efficient, effective programming style. Computer Science I students will also engage in algorithmic analysis, which requires the ability to work with abstract concepts such as variable data representation and problem solving heuristics.

Computer Science III

TA4ACS, 1 Credit , Gr 11-12

03580300

Prerequisite- Algebra II, BIM, AP Computer Science A

Computer Science III will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of advanced computer science data structures through the study of technology operations, systems, and concepts. Emphasis will be placed on cyber-security.

Practicum in Information Technology

IT3RCS, 2 credit, Gr. 12

13028000

Prerequisite- Instructor Approval

In the Practicum in Information Technology, students will gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an industry mentor, as an unpaid or paid internship, as part of a capstone project, or as career preparation.

Canyon ISD/WTAMU Computer Science Track

	
<p style="text-align: center;"><u>1st Year</u></p> <p>Fall CS 1301 = 3 Credits Spring CS 1337 or 2337= 3 Credits</p>	<p style="text-align: center;"><u>1st year</u></p> <p>Fall Independent Study in Technology App= 1 Credit Spring Independent Study in Evolving and Emerging Technology= 1 Credit</p>
<p style="text-align: center;">6 Total Hours of College Credit</p>	<p style="text-align: center;">2 High School Credits</p>

Canyon ISD/WTAMU Engineering Track

	
<p style="text-align: center;"><u>1st Year</u></p> <p>Fall ENGR 1301&1301L = 3 Credits Spring ENGR 1304&1304L = 3 Credits</p>	<p style="text-align: center;"><u>1st year</u></p> <p>Fall ENGR Design & Pres 1= 1 Credit Spring ENGR Design & Pres 2= 1 Credit</p>
<p style="text-align: center;"><u>2nd Year</u></p> <p>Fall CS 1315 = 3 Credits Spring ENGR 1375&1375L = 3 Credits</p>	<p style="text-align: center;"><u>2nd Year</u></p> <p>Fall Fundamental of CS= 1 Credit Spring AC/DC Electronics= 1 Credit</p>
<p style="text-align: center;">12 Total Hours of College Credit</p>	<p style="text-align: center;">4 High School Credits</p>

Engineering Design and Presentation I (ENGR 1301 & 1301L at WTAMU)

ST2RED, 1 credit, Gr. 10-12

13036500

Prerequisite- Algebra I

Comprehensive study of fundamental engineering concepts and principles, including a systematic approach to problem solving. This course is taken on campus during the school day at WTAMU.

Engineering Design and Presentation II (ENGR 1304 & 1304LL at WTAMU)

ST3RED, 1 credit, Gr. 11-12

13036600

Prerequisite- Engineering Design and Presentation I Fundamentals of engineering graphics using computer aided drafting and design. This course is taken on campus during the school day at WTAMU.

Fundamentals of Computer Science (CS 1315 at WTAMU)

ST3DFCS, 1 credit, Gr. 11-12

03580140

Introduces the fundamental concepts of procedural programming. This course is taken on campus during the school day at WTAMU.

AC/DC Electronics (ENGR 1375 & 1375L at WTAMU)

ST4DACDC, 1 credit, Gr. 11-12

13036800

Principles of DC and AC circuits. Test and measurement of electric circuits and components. This course is taken on campus during the school day at WTAMU.

CISD Robotics Program Courses

Principles of Applied Engineering

ST1RAE, 1 credit, Gr. 9-12

13036200

Prerequisite- none

Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects.

Robotics 1

ST1RRB, 1 credit, Gr. 11-12

13037000

Prerequisite-Algebra I

In Robotics I, students will transfer academic skills to component designs in a project-based environment through implementation of the design process. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry.

Robotics 2**ST2RRB, 1 credit, Grades 11-12****13037050**

In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs.

Additional CISD Technology Credit

Digital Media (Used for Yearbook Editors Only)**IT2RDI, 1 Credit, Gr. 10-12****13027800****Prerequisite-none**

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

Web Design**IT2RWD, 1 credit, Gr. 10-12****03580820****Prerequisite- none**

In Web Design students will acquire knowledge of web design and technological operations and concepts that support creativity, innovation, collaboration, information fluency, critical thinking and decision making

Digital Art and Animation (Can be used as a fine art credit)**TA1RDA, 1 credit, Gr. 9-12****03580500****Prerequisite- none**

Through the study of technology applications foundations, including technology-related terms, concepts, and data input, students learn to make informed decisions about technologies and their application. By using technology as a tool that supports the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create a solution, and evaluate the results. Students communicate information in different formats and to diverse audiences. A variety of technologies will be used. Students will analyze and evaluate the results.

Digital Design and Media Production**TA2RDD, 1 credit, Gr. 10-12****03580400****Prerequisite- Journalism**

Through the study of technology applications foundations, including technology-related terms, concepts, and data input, students learn to make informed decisions about technologies and their applications. The efficient acquisition of information includes the identification of task requirements. By using technology as a tool that supports the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create a solution, and evaluate the results. Students communicate information in different formats and to diverse audiences. A variety of technologies will be used. Students will analyze and evaluate the results

Law, Public Safety, Corrections and Security

Forensic Science

LA3RFS, 1 credit, Gr. 11-12

13029500

Prerequisite- none

Forensic Science is a course focusing on the drive to unlock the mystery of crimes through the application of science. This course will complement the curriculums of criminal justice, biology, and chemistry courses, and will involve the study of both historical and modern crimes. Forensic Science is designed to provide students with an introductory understanding of criminology and the processes by which criminologists use the scientific method to analyze data as evidence. Knowledge and skills will be gained in hair/fiber analysis, blood type analysis, bloodstain patterns, DNA, anthropology (skeletal analysis), fingerprint comparison, toxicology (drug and poison analysis), etc. However, course content will be flexible and based on student interest and/or current events. Forensics is a CTE course in the Law, Public Safety, Corrections and Security Cluster.

Transportation, Distribution and Logistics

Automotive Technology (ASE Engine Repair Student Certification)

TR3RAT, 2 credit, Gr. 11-12

13039600

Prerequisite- none

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

Advanced Automotive Technology (ASE Steering and suspension Student Certification)

TR4RAT, 2 credit, Gr. 12

13039700

Prerequisite- Automotive Technology

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

Career Development

Career Preparation I

CD3RCP, 2-3 credit, Gr. 11-12

12701300

Prerequisite-none

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success. The student must have an approved training station, or work place, and show employability skills in order to earn 1 1/2 units of credit per semester. The student will be required to work a minimum of 10 hours per week, 10 of which must be Monday through Friday. General employability skills taught will include applying for employment, networking, resume writing, job interviewing, and monitoring the economy as it relates to employment opportunities. The class has a leadership club that is involved in community affairs. The club will do fundraising, so that the student learns how to participate actively in the community and is aware of the need for life-long community service.

Career Preparation II

CD4RCP, 2-3 credit, Gr.12

12701400

Prerequisite- Career Preparation I

Career Preparation II develops essential knowledge and skills through advanced classroom instruction with business and industry employment experiences. Career Preparation II maintains relevance and rigor, supports student attainment of academic standards, and effectively prepares students for college and career success. The student must have an approved training station, or work place, and show employability skills in order to earn 1 1/2 units of credit per semester. The student will be required to work a minimum of 15 hours per week, 10 of which must be Monday through Friday. General employability skills taught will include applying for employment, networking, resume writing, job interviewing, and monitoring the economy as it relates to employment opportunities. The class has a leadership club that is involved in community affairs. The club will do fundraising, so that the student learns how to participate actively in the community and is aware of the need for life-long community service.

High School Course Selection Worksheet

Student Name _____ ID# _____ Present Grade _____

Fall Courses Selected

Name of Course

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

Spring Courses Selected

Name of Course

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

Alternates (List two in order of Preference)

1. _____ 1. _____

2. _____ 2. _____

Student Signature _____ Date _____

Parent Signature _____ Date _____