

PEWITT HIGH SCHOOL



2026-2027

ACADEMIC COURSE GUIDE

Pewitt High School

Program of Studies and Course Description Guide

Choosing the right courses and registering properly are two of the most important things students and parents can do every year to ensure a quality educational experience for their children. It is essential that both parents and students think carefully about long-range plans when making decisions about which courses to take. Every effort will be made to keep parents and students informed throughout this process. Students who receive sound parental input and give their full attention to selecting the right courses are much more likely to attain their stated educational goals.

Course selections will be made in the spring semester with students. Students will select with their counselor which courses they plan to take for the coming school year. Students should follow established deadlines for selecting courses. Upperclassmen will be given priority when conflicts arise. If students fail to complete the course selection form, courses will be chosen for them.

Course selection is FINAL! All scheduling decisions are made based on the course request we receive from our students, and scheduling begins well before the end of the current school year. Once course selections are completed, they are considered final. In the event that a change is deemed absolutely necessary after this date, a schedule change request form must be completed in the counselor's office. Changes will be approved only under the following circumstances: *Completion of a scheduled course by alternate means (Credit by Exam, summer school, correspondence courses, and college credit). *Level changes (transferring from Advanced to Regular classes). *Failure of course prerequisite to a scheduled course. *Change in the senior year to a course required for graduation. *Extenuating circumstances reviewed by the Counselor and approved by the Principal. Administration reserves the right to not offer a class if too few students request a course. Changes will not be made based on preference or a change of mind with their last report card. **Credit will not be awarded after 10% of the days in each semester have been missed if a student changes a course or enters without having been enrolled in another school.**

Substantial differences should be expected between regular and advanced courses (Honors, Advanced Placement, and Dual Credit). Regular courses are designed to meet both state and local expectations for all students while equipping them for a variety of pursuits after high school, including college. Students are not required to take advanced level courses in order to pursue any diploma type. Advanced courses are designed to challenge students significantly and typically require more higher-order thinking and application of skills and concepts. These courses are recommended for students who have performed at a high level academically in the past and who are willing to push themselves when confronted with rigorous coursework. Students enrolling in dual credit courses must satisfy the college entrance requirements set forth by the Texas Higher Education Coordinating Board. Parents and students are encouraged to consider the decision to take advanced courses carefully. Schedule changes are in no way guaranteed for students who struggle in an advanced course.

PCISD Mission Statement:

The mission of the Pewitt Consolidated Independent School District, in partnership with our school community, is to inspire and prepare our students to become confident, innovative problem solvers who demonstrate outstanding character and take full advantage of their individual academic potential so that they are able to thrive in our complex and ever-changing world.

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ASSURANCE OF NONDISCRIMINATION

The policy of the Pewitt Consolidated Independent School District is to comply fully with the nondiscrimination provisions of all state and federal laws and regulations by assuring that students are afforded equal access to regular, vocational, special education programs, and activities without regard to race, religion, color, national origin, sex, or handicapping conditions as provided in these laws and regulations.

INTRODUCTION

This course description guide provides a brief description of each course offered at Pewitt High School, lists prerequisites and special requirements, and includes credits required for graduation. Since students will be making selections for the entire year, it is imperative that parents and students work together during this process. A thorough review of the graduation requirements, various transcript options, course prerequisites, and policies regarding schedule changes are essential. As always, the high school Administration and staff will help students make the best possible choices. Counselors will contact students if enrollment numbers for any classes are not met.

GRADUATION REQUIREMENTS

All students must earn credits for state-required subjects and electives as described on the following pages. Students must pass the State of Texas Assessments of Academic Readiness End of Course exams (STAAR EOC) for five subjects: English I, English II, Algebra I, Biology, and U.S. History. Please contact the Counseling Office at 903-884-2293 if more information is needed.

EARLY GRADUATES

A student who intends to graduate early must declare that intention within the first week of school at the beginning of the Sophomore year. Students and parents must sign an early graduation letter that can be obtained from your Counselor. Early graduates must meet MPHS graduation requirements in 3 years and must pass all portions of exit level testing in order to be declared a graduate. If early graduates have 20 credits at the beginning of the junior year, they will be promoted to senior status at that time. Otherwise, they will be promoted at mid-year. Early graduates will be ranked with the senior class after the 3rd 9 weeks. They will be allowed to participate in senior activities whenever they are promoted to senior status. Careful consideration should be given that early graduates will be forfeiting their senior year. These students will be expediting the college entrance process and should therefore begin preparing for college by taking entrance exams their Sophomore year and applying for financial aid by the fall of the junior year. For more information, students should see their Counselor.

DEGREE PLANNING



MAKING A CAREER CONNECTION

Soon, students will be making course selections for the next school year. Courses should be chosen carefully, as they will become the foundation for the student's future. Careful selection of courses will help a student make that career connection after high school. "Career" implies more than just a job; it includes education, work and lifestyle. Achieving a successful and satisfying career takes years of planning, studying, training, and hard work. The good life won't just happen without careful planning. The ultimate goal for all students is the same- a successful and satisfying career. Choosing the right path to follow in high school is the first critical step in achieving that goal.

Pewitt High School offers courses in a comprehensive academic program. Students may choose Advanced Placement, dual credit, honors and CTE classes as well as electives. This guide provides information to help students as they choose course selections to meet their goals.

Choosing an Endorsement Area

Students will be able to earn one or more endorsements as part of their graduation requirements. Endorsements consist of a related series of courses that are grouped together by interest or skill set. They provide students with in-depth knowledge of a subject area. Students must select one of five endorsements in the ninth grade.

May I change my endorsement choice?

Yes. Students may change their endorsement choice at any time. High school offers such a wonderful opportunity for students to explore areas of interest and to find those courses that spark enthusiasm. The goal is to always help students focus on their strengths.

What if I need help?

Parents, the counselor, teachers, and the principals are all here to help students in this process. Student success is the mission of Pewitt CISD, and our team is ready to assist in every way possible!

GRADUATION PLAN

All students must earn credits for state required subjects and electives as described on the following pages. In addition, students must meet the State of Texas Assessments of Academic Readiness (STAAR) End-of-Course (EOC) testing requirements. Students shall be awarded the same diploma. However, the Academic Achievement Record, or transcript, will designate which endorsement plan was followed.

The **Foundation Plan** contains the basic courses that a student will need to graduate from high school. All students are initially assigned on the Distinguished Graduation Plan and could possibly change due to lack of meeting certain requirements.

Pewitt High School Graduation Requirements

Subject Area	Foundation High School Program with an Endorsement	Foundation High School Program with Distinguished Level of Achievement
English—4 Credits	English I, II, III, & IV	English, I, II, III, & IV
Math—4 Credits	MUST INCLUDE: Algebra I, Geometry and two additional credits in advanced math - Algebra II - Pre-Calculus - Calculus - Math Models	MUST INCLUDE: Algebra I, Geometry, Algebra II and one additional credit in advanced math - Pre-Calculus - Calculus - Math Models
Science—4 Credits	MUST INCLUDE: Biology, Chemistry, and 2 credits must be selected from the following laboratory-based courses - Physics - Anatomy & Physiology - Forensic Science - Advanced Animal Science - Research & Design - Advanced Plant Science	MUST INCLUDE: Biology, Chemistry, and 2 credits must be select-ed from the following laboratory-based courses - Physics - Anatomy & Physiology - Forensic Science - Advanced Animal Science - Research & Design - Advanced Plant Science
Social Studies—4 Credits	World Geography, World History, U.S. History, Economics (.5 credit) & U.S. Government (.5 credit)	World Geography, World History, U.S. History, Economics (.5 credit) & U.S. Government (.5 credit)
Fine Arts	1 Credit	1 Credit
Languages other than English — 2 Credits	2 Credits of the same language	2 Credits of the same language
Physical Education	1 Credit	1 Credit
Electives — 6 credits	May Include CTE or certification courses. Credit requirement specific to at least one endorsement.	May Include CTE or certification courses. Credit requirement specific to at least one endorsement.
TOTAL	26 Credits (Including an Endorsement)	26 Credits (Including an Endorsement)
Note: Any required courses do include the regular, Honors, AP, or DC courses. Please consult your Counselor for individual campus availability.		

Foundation High School Program

Endorsement Requirements

Arts & Humanities: (see below)

- Fine Arts (4 credits) a coherent sequence from 1 or 2 of the following: Band, Theatre, Art

Business & Industry: (4 credits from below)

- CTE Cluster (4 credits including 2 from same cluster, 1 advanced course, +1) Clusters include:
 - * Ag, Food & Natural Resources
 - * Arts, Audio/Video Technology & Communication
 - * Business, Marketing, and Finance
 - * Culinary Arts
 - * Information Technology
 - * Manufacturing

Multidisciplinary: (4 credits from below)

Foundation areas of English, Math, Science, and Social Studies (must have 4 credits in each and must include English IV, Chemistry and/or Physics)

Public Services: (4 credits from the clusters below—2 from one cluster, 1 advanced course, +1)

- Education & Training
- Health Sciences

STEM: *Foundation must include: Algebra II, Chemistry, and Physics*

- Math (5 credits) Algebra I, Geometry, Algebra II, +2 for which Algebra II is a prerequisite
- Science (5 credits) Biology, Chemistry, Physics, +2

Performance Acknowledgements

A student may earn a Performance Acknowledgement for outstanding performance:

- * In dual credit courses
- * In bilingualism and biliteracy
- * On an AP test
- * On the PSAT, the SAT, or the ACT
- * For earning a nationally or internationally recognized business or industry certification or license. See your Counselor or CTE Director for a list of approved certifications or licenses

A student may earn a Performance Acknowledgement on the student's transcript for outstanding performance in dual credit courses by completing:

- * At least 12 hours of college academic courses, including those taken for dual credit as part of the Texas core curriculum, and advanced technical courses, with a grade of the equivalent of 3.0 or higher on a 4.0 scale **OR**
- * An Associate Degree while in high school

A student may earn a Performance Acknowledgement in bilingualism and biliteracy by demonstrating proficiency in accordance with PCISD grading policy in two or more languages by:

- * Completing all English language arts requirements and maintaining a minimum grade point average (GPA) of the equivalent of 80 on a scale of 100; **AND**
- * Completion of a minimum of three credits in the same language in a language other than English with a minimum GPA of the equivalent of 80 on a scale of 100
- * In addition to the above two requirements to earn a Performance Acknowledgement in bilingualism and biliteracy, an English Language Learner must also have:
 - *Participated in and met the exit criteria for a bilingual or English as a second language (ESL) program; **AND**
 - *Scored at the Advanced High level on the Texas English Language Proficiency Assessment System (TELPAS)

A student may earn a Performance Acknowledgement on the student's transcript for outstanding performance on a College Board Advanced Placement test by earning a score of 3 or above.

A student may earn a Performance Acknowledgement on the student's transcript for outstanding performance on the PSAT, the SAT, or the ACT by:

- * Earning a score on the Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/ NMSQT) that qualifies the student for recognition as a commended scholar or higher by the College Board and National Merit Scholarship Corporation, as part of the National Hispanic Recognition Program (NHRP) of the College Board or as part of the National Achievement Scholarship Program of the National Merit Scholarship Corporation
- * Earning a total score of at least 1350 on the SAT; **OR**
- * Earning a composite score on the ACT examination of 29 (excluding the writing sub score).

ACADEMIC INFORMATION



SPECIAL PROGRAMS

Honors Courses

Honors courses are advanced courses designed to better prepare students for college. These courses are more rigorous than the regular courses. Honors courses are weighted as 5-point courses on the weighted GPA scale.

English I Honors	Biology Honors	World Geography Honors
English II Honors	Chemistry Honors	World History Honors
English III Honors	Physics Honors	U.S. History Honors
English IV Honors	A&P Honors	Govt/Econ Honors
Pre-Cal Honors		
Calculus Honors		
College Prep Math		

Correspondence Courses

Students are allowed to earn credit through correspondence courses. Courses are designed around the re-quired course curriculum outlined and approved by TEA. If transcripts from TTU have not been received by the end of the Sophomore year for languages other than English, the student will be placed in a Language course their Junior year. Graduating students enrolled in correspondence courses to earn credits for graduation shall complete the course and submit the grade for recording at least 30 days prior to graduation in or-der to be eligible for graduation in May. A maximum of two (2) courses may be earned through correspondence. Correspondence courses may be taken only through Texas Tech University. Prior approval of the Counselor must be obtained in order to receive credit through correspondence. The student or parent must pay the cost of each course. PCISD does not fund the cost of these courses. Correspondence courses will not earn grade points for ranking purposes.

Gifted/Talented Program

Gifted students perform at or show the potential for performing at a remarkably high level of accomplishment when compared to others of the same age, experience, or environment. Pewitt CISD gifted students may receive services through honors classes.

Special Education

Special education and related services are a part of a free, appropriate public education designed to meet the unique needs of students with disabilities. The mission of special education at PCISD is to create a learning environment through a unified educational system which respects and values all students. The primary focus of PCISD special education programs is first and foremost the provision of services that will ensure each student's success.

Special education students are those whose identified disabilities are so limiting as to require the provision of special services in addition to, or in place of, instruction in the regular classroom. Students with disabilities have equal access to compensatory, remedial, tutorial, and other appropriate programs available to students without disabilities. Students are identified and served by special education through the utilization of the child-centered process and are educated with their peers (as appropriate) who do not have disabilities.

Special education provides all students with disabilities full educational opportunity through the utilization of a wide range of instructional arrangements and programs. Services are provided to students who are disabled beginning on their 3rd birthday and who have not reached their 22nd birthday by September 1 of the current scholastic year. Students who are identified as having a visual or auditory impairment may begin services at birth.

Instruction is designed to help the student most effectively develop those skills and concepts necessary for independent functioning. Emphasis is placed upon determining first the academic and affective strengths and deficits, then prescribing those learning activities which foster the development of those skills and concepts. Because students differ both in the preferred modality of learning and in levels of functioning, a variety of methods, materials, and techniques are utilized, with the Admission, Review, and Dismissal Committee determining which are most beneficial for the individual student's growth in mastery of skills and in acquisition of compensatory behaviors.

Limited English Proficiency

Students who have been identified as limited English proficient may participate in a special language program that is an integral part of the total school program. The program emphasizes the mastery of basic English language skills so that students will be able to participate effectively in the regular school program as soon as practical.

Earning College Credit in High School

Earning College Credit

Students at Pewitt High School have the opportunity to earn college credit while in high school by access to dual credit courses.

Dual Credit programs can be used in a variety of combinations based on student preferences to meet graduation requirements. Students are responsible for ensuring that the college that they are planning to attend will accept or will award credit for the college-level courses.

Students who participate in college-level courses will be expected to:

- Work independently
- Commit to reading, research, and hard work
- Demonstrate above average ability in oral and written expression
- Deal with sophisticated concepts maturely
- Think critically and creatively
- Respond positively to challenging situations
- Prioritize activities and set personal deadlines
- Manage study time and complete assignments
- Deal personally and directly with the instructor to discuss problems and questions

Dual Credit Program

What is the Dual Credit Program?

The Dual Credit program allows high school students the opportunity to enroll in college-level courses and to earn high school as well as college credit for the completed coursework. The program provides a continuum of learning from high school to college for those students who choose to pursue a post-secondary degree or certificate after high school graduation. This continuum will increase opportunities for students to progress through their programs of study at an accelerated pace. Students are enrolled in a high school class, which may be taught by a college instructor or by a high school instructor employed by the college. The class can be located on the high school campus or at NTCC and must meet and exceed the Texas Essential Knowledge and skills (TEKS) of the State Board of Education (SBOE).

What are the advantages of taking a dual credit course?

The Dual Credit Program allows students to shorten the time required to complete an undergraduate degree. It also eliminates the duplication of courses taken in high school and in college. The advanced curriculum provides a background for students that will sharpen their academic preparedness for college. At the same time, the program expands the options available for college-bound students.

How is credit awarded?

Credit may be given in a content area or as an elective to fulfill graduation requirements and to gain college credit. Credit for successfully completed college courses (a minimum of "C") will be earned in one-half or one-unit increments. Students taking dual credit courses on the Pewitt campus will receive the actual numerical score as weighted high school credit ("Advanced" course weight). Students taking dual credit courses on the college campus will receive an unweighted grade.

How are dual credit courses transferred for college credit?

When choosing which courses to take as dual credit, the best option for students is to choose courses that fit into the core curriculum of the college or university offering the dual credit program. Courses that fulfill the core curriculum of a public college or university are guaranteed to transfer to any other public college or university in Texas by state law. For additional dual credit courses, students should contact the college or university that they plan to attend to determine how that institution will grant credit for the course.

What are the costs involved in taking a course?

Students and/or parents assume full financial responsibility for the cost (lab fees, books, etc.) of dual enrollment classes. This includes tuition, fees, books, materials, travel, and any other related costs and will be in accordance with the cost-per-hour charges assessed by the college. NTCC does offer scholarships for qualifying students. See the counselor for more details.

What are the approved dual credit courses?

See the approved dual credit courses in the crosswalk in the following pages. No other course work completed at the college will be recorded on the high school transcript or given grade points for ranking purposes. **Students wishing to receive accommodations in a dual credit class must contact NTCC.**

DUAL CREDIT ELIGIBILITY REQUIREMENTS

Students enrolling in a dual credit course must meet the following entrance requirements:

1. completion of prerequisite courses,
2. a qualifying score on a specified assessment for college readiness, and
3. classification as a junior or senior in high school (unless enrolled in the college academy program).

ASSESSMENT REQUIREMENTS FOR STUDENTS

ASSESSMENT	REQUIREMENTS
TSIA2	English Language Arts If you score in the range of 945-990 on the multiple-choice CRC Test and a 5 or higher on the essay test, or if you score below 945 on the multiple-choice CRC Test, receive a diagnostic level of 5 or higher on the Diagnostic Test, and score of 5 or higher on the Essay Test. Math If you score in the range of 950-990 on the CRC Test or if you score below 950 on the CRC Test but receive a diagnostic level of 6 on the Diagnostic Test.
ACT	ACT administered prior to February 15, 2023: composite score of 23 with a minimum of 19 on the English test shall be exempt for both the reading and writing sections of the TSI Assessment, and/or 19 on the mathematics test shall be exempt for the mathematics section of the TSI Assessment; ACT administered on or after February 15, 2023: a combined score of 40 on the English and Reading (E+R) tests shall be exempt for both reading and writing or ELAR sections of the TSI Assessment. A score of 22 on the mathematics test shall be exempt for the mathematics section of the TSI Assessment. There is no composite score.
SAT	A minimum score of 480 on Evidence-Based Reading and Writing (EBRW) test. A minimum score of 530 on the mathematics test.

CROSSWALK AND COURSES ELIGIBLE FOR DUAL CREDIT

Students who are entering the 9th grade, in the appropriate pathway, are eligible to take these courses during their time in high school.

Please note that this list could change depending upon course change information.

EXAMINATIONS FOR ACCELERATION OR CREDIT RECOVERY

Pewitt Course	NTCC Course
College Academy	EDUC 1300 – Learning Frameworks/SPCH 1315 - Public Speaking
State required Fine Arts credit	ARTS 1301 - Art Appreciation DRAM 1310 - Intro to Theatre MUSI 1306 - Music Appreciation
United State History (typically taken junior year)	HIST 1301 - United States History 1 / HIST 1302 - United States History 2
Government and Economics	GOVT 2305 - Federal Government/ ECON 2301 - Principles of Macroeconomics
English 3	ENGL 1301 - English Composition 1/ ENGL 1302 - English Composition 2
English 4	ENGL 2322 - British Literature 1/ENGL 2323 - British Literature 2 ENGL 2311 - Technical and Business Writing (General Students)
Algebra 2	MATH 1314 - College Algebra
Pre-Cal	MATH 2412 – Pre-Calculus
Calculus	MATH 2413 – Calculus I/ MATH 2414 – Calculus II
Physics	PHYS 1401 / PHYS 1402 – General Physics II OR PHYS 1303/PHYS 1304 Star & Galaxies/Solar Systems

Texas Government	GOVT 2306
Advanced Animal Science	AGRI 1419 - Introduction to Animal Science (3hrs - whole year)
Advanced Plant and Soil Science	AGRI 1415 - Horticulture
Agricultural Mechanics Metal Technologies/Lab	WLDG 1421 - Introduction to Welding Fundamentals
Agricultural Equipment Design and Fabrication	WLDG 1425 - Introduction to Oxy-Fuel Welding and Cutting
Psychology	PSYC 2301 – Intro to Psychology (2nd Semester)
Sociology	SOCI 1301 – Intro to Sociology (1st semester)
Humanities	PHIL 1301 - Intro to Philosophy/ PHIL 2306 – Intro to Ethics
Spanish 2	SPAN 1411 – Beginning Spanish I/ SPAN 1412 – Beginning Spanish II (If needed in degree plan)
Astronomy	PHYS 1303 - Stars and Galaxies/ PHYS 1304 - Solar System
Medterm	MDCA1313 - Medterm / MDCA 1343 - Medical Insurance
NTCA Dual Credit Courses	
Computer Science I	BCIS 1305 - Business Computer App/ COSC 1301 - Intro to Computing
Computer Science II	COSC 1336 – Programming Fundamentals I/ COSC 1337 - Programming Fundamentals II
Practicum in Information Technology	COSC 2336 – Programming Fundamentals III/ COSC 1315 – Fundamentals of Programming in Java
Foundations of Business Communication and Technologies	BUSI 1301 – Business Principles/ BCIS 1305 - Business Computer App
Business Communications and Technologies	BUSI 1307 – Personal Finance/ BMGT 1341 – Business Ethics
Business Management	BUSI 2309 – Business Leadership/ LMGT1319 – Intro to Business Logistics
Practicum of Business Management	LMGT 1325 – Warehouse and Distribution Center Management/ LMGT 1321 – Intro to Materials Handling
Principles of Manufacturing	MFGT 1302 – Intro to Automated Manufacturing/ BMGT 1331 – Production and Operations Management
Electrical Technology I	ELPT 1311 Basic Electrical Theory/ ELPT 1341 – Motor Control
Practicum of Manufacturing I (Technician)	INMT 1305 – Intro to Industrial Maintenance/ HYDR 1345 – Hydraulics and Pneumatics/ CBFM 2317 – Mechanical Maintenance/ ELPT 2319 – Programmable Logic Controller
Practicum of Manufacturing II (Technician)	ELPT 2355 – Programmable Logic Controller II/ INTC 1357 – AC/DC Motor Control
HVAC I (Air Conditioning Technician)	ELPT 1311 – Basic Electrical Theory/ HART 1303 – Air Conditioning Control Principles
Practicum in Manufacturing I (Air Conditioning Technician)	INMT 1305 – Intro to Industrial Maintenance/ HART 1310 – HVAC Shop Practices and Tools/ HART 1356 – EPA Recovery Certification Preparation/ HART 1341 – Residential Air Conditioning
Practicum in Manufacturing II (Air Conditioning Technician)	CBFM 2317 – Mechanical Maintenance/ ELPT 1341 – Motor Control

According to Texas State Board of Education rules, school districts must offer Examinations for Acceleration (EA) or credit recovery. Tests for acceleration and/or credit recovery are available to students who wish to test for advancement to the next grade level or receive credit for a high school course for which he or she has/or has not had no prior instruction. Pewitt CISD will offer examinations for acceleration for current kindergarten through twelfth grade students during the allotted times (listed in the table below).

A student may not attempt more than **two** times to receive credit on the basis of an examination.

In accordance with Texas Education Law and Pewitt CISD policy/regulations, students must meet the following criteria to be eligible to take an exam for acceleration:

GRADES 1-5	GRADES 6-12
1. Comply with the deadlines stated in this letter	1. Comply with the deadlines stated in this letter
2. Request an <i>Exam for Acceleration Form</i>	2. Request an <i>Exam for Acceleration Form</i>
3. Have recommendation from a school district representative that the student be accelerated	3. Must have successfully completed or be enrolled in the prerequisite course for the requested exam
4. Return <i>Exam for Acceleration Form</i> to school by published deadline	4. Return <i>Exam for Acceleration Form</i> to school by published deadline

To receive credit for acceleration, a student must score **80%** or above on each examination. Upon meeting these test requirements, a student may advance one grade level. A student must score **70%** or above to receive credit for a high school course in which they have had prior instruction. Students without prior instruction must score **80%** or above to receive credit for a high school course for the 2026-2027 school year. Acceleration/Credit exams are very difficult. Please discuss all other possibilities of classroom acceleration with your child's teacher or counselor before requesting this strenuous testing process. Requests will be accepted through the following dates:

REQUEST DEADLINE	TESTING DATES
July 30, 2026	September 14-17, 2026
September 30, 2026	January 11-14, 2027
February 28, 2027	April 5-8, 2027
April 30, 2027	July 19-20, 2027

No requests will be accepted after the published deadlines for test administrations.

If you have questions concerning the examinations for acceleration and credit, please contact the principal or counselor of the school your student attends.

CREDIT BY EXAMINATION WITH PRIOR INSTRUCTION

PCISD students have the option of recovering credit after failing a course. Students must follow the district procedures and schedule for taking a CBE and must score "70" or above to receive credit. The district will offer four testing dates in the calendar year. Students may choose from one of these dates and must submit a written request to the campus principal. If a student is awarded credit by examination, the score attained on the exam is recorded on the student's Academic Achievement Record. For students in grades 9-12, this score is unweighted for class rank.

“ON TIME” GRADUATION

Once a student enters high school, graduation generally occurs after a four-year course of study. Students who fail a course and do not recover credit for the course during the following summer session or through Credit by Examination will find it difficult to graduate within this timeframe. The principal may make an exception, allowing a student to enroll in summer school for acceleration, so that the student can graduate at the end of the fourth year in high school.

Exam for Acceleration/Credit Recovery Form

Student Name:		Campus:	
Current Grade:		Local ID#:	
Date of Birth:			
Address:			
Phone Number:			
Test Requested: (Grade Level or Course)			
I give my student permission to participate in the exam for acceleration/credit recovery.			
Parent Signature:			
Date:			
Criteria			
Grades 1 - 5		Grades 9 - 12	
1. Comply with the deadlines stated in this letter		1. Comply with the deadlines stated in this letter	
2. Request an <i>Exam for Acceleration Form</i>		2. Request an <i>Exam for Acceleration Form</i>	
3. Have recommendation from a school district representative that the student be accelerated		3. Must have successfully completed or be enrolled in the prerequisite course for the requested exam	
4. Return <i>Exam for Acceleration Form</i> to school by published deadline		4. Return <i>Exam for Acceleration Form</i> to school by published deadline	
Testing Information			
Request Deadline		Testing Date	
July 30, 2026		September 14-17, 2026	
September 30, 2026		January 11-14, 2027	
February 28, 2027		April 5-8, 2027	
April 30, 2027		July 19-20, 2027	
FOR OFFICE USE ONLY			
Form Received By:		Date:	
Approved By:		Date:	

Physical Education Graduation Requirement

Students are required to satisfy a 1 credit graduation requirement for physical education. Students may earn up to 4 full state credits in physical education. Students may satisfy the physical education graduation requirement in several ways.

- 1. By taking a physical education course**

Students should take Foundations of Personal Fitness first. The other PE requirements could be fulfilled with courses located under the physical education page in this guide.

- 2. By taking a course which counts as a physical education waiver**

For these courses, students do NOT receive PE credit on their transcripts. Their PE obligation is reduced one-half credit each time they complete a semester's work in the PE waiver activity. Students receive the regular academic credit on their academic achievement record for these physical education waiver courses:

Band I, II, III, IV (1st semester only)

Textbooks/Chromebooks

Textbooks and Chromebooks are the property of the district and are issued to students free of charge. Each student is responsible for paying for lost or damaged items.

Automatic Admission to Texas Public Universities

Under the Automatic Admission policy (Texas Education Code §51.803), Texas students may be eligible for automatic admission to a state college or university as an undergraduate student if they meet certain criteria. To qualify for automatic admission, a student must:

1. earn a grade point average in the top 10 percent* of his/her high school graduating class,
2. graduate from a Texas public or private high school (or, if the student is a Texas resident, from a high school operated by the U.S. Department of Defense),
3. successfully complete the requirements for the Recommended High School Program (RHSP) or the Distinguished Achievement Program (DAP) (or the equivalent if enrolled in private school) or achieve the Distinguished Level of Achievement on the Foundation Plan or satisfy ACT's College Readiness Benchmarks on the ACT college entrance exam or earn a score of at least 1,500 out of 2,400 on the SAT college entrance exam, and
4. apply for admission to a state college or university within the first two school years after graduation from high school.

Students who meet the criteria for automatic admission must submit an application before the deadline set by the college or university to which they are applying. Students must also provide a high school transcript or diploma that indicates whether they have satisfied or are on schedule to satisfy the requirements of the RHSP or DAP or Distinguished Level of Achievement on the Foundation Plan.

This automatic admission program has been modified by the 81st Legislature for admission to The University of Texas at Austin (UT). Under the new law, the University is to admit automatically enough students to fill 75% of available spaces set aside for Texas residents in an entering freshman class. Using data from recent years, the University has determined that automatically admitting students in the top 8% of their high school graduating class to the 2018 entering freshman class will fill 75% of available spaces. As a result, the University will automatically admit all eligible 2018 summer/fall freshman applicants who rank within the top 8% of their high school graduating classes, with remaining spaces to be filled through holistic review. Students and parents should contact the Academic Advisor for further information about the application process and deadlines.

Grade Level Classification

Changes in grade level classification shall be made prior to the beginning of the fall semester. Students will be classified according to the following criteria:

Sophomore (10th) - 6 - 11.5 credits earned and entering second year in an accredited high school
 Junior (11th) - 12 - 17.5 credits and entering third year in an accredited high school
 Senior (12th) - 18 or above credits, entering at least third year in accredited high school declaring intent to graduate during the current school year

Students transferring into the District will be classified according to the documented number of credits earned by the date of transfer and by the number of years in attendance in an accredited high school as listed above. If no official transcript is available by the date of enrollment, a transfer student will be enrolled as a freshman and will be placed in freshman-level classes, pending receipt of the official transcript.

Promotion standards, as established by the Individual Education Plan (IEP), or grade-level classification of students eligible for special education shall be determined by the ARD committee.

Class Rank

Class rank for students will be calculated by averaging semester grades earned in grades 9-12. The numeric semester average will earn grade points according to the District weighted grade point scale.

Course Weight	Courses
5.0	Advanced Courses
4.0	General
3.0	Basic
Unweighted	Dual Credit Outside of traditional school Local Electives Credit Recovery Credit by Exam

Graduation

For the purpose of determining honors to be conferred during the graduation activities, the District shall calculate class rank at the end of the third nine weeks grading period of the senior year. The third nine weeks grades shall be used as the semester grade for this purpose.

For the purpose of applications to institutions of higher education, the District shall also calculate class rank as required by state law. The District's eligibility criteria for local graduation honors shall apply only for local recognitions and shall not restrict class rank for the purpose of automatic admission under state law.

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

1. Have been continuously enrolled in the district high school for the two school years immediately preceding graduation; and
2. Have completed the Recommended Program, the Advanced/Distinguished Achievement Program, the foundation program with at least one endorsement.

In case of a tie in weighted grade averages after calculation to the thousandths place, the District shall apply the following methods, in this order, to determine recognition as valedictorian or salutatorian:

1. The weighted grade average shall be computed to a sufficient number of decimal places until the tie is broken; or
2. If a tie still remains, the student with the highest numerical grade average of all AP courses taken shall be the valedictorian.

The District shall recognize as an honor graduate a student who:

1. Has maintained a numerical average of 90 or higher throughout high school, except for the last nine weeks of the senior year; and
2. Has completed the Recommended Program, the Advanced/Distinguished Achievement Program, the foundation program with at least one endorsement, or the foundation program with the distinguished level of achievement.

The District shall recognize at the graduation ceremony the ten highest-ranking students in the graduating class. Those students must have completed the Recommended Program, the Advanced/Distinguished Achievement Program, the foundation program with at least one endorsement, or the foundation program with the distinguished level of achievement.

Financial Aid Application Requirement

Before graduating from high school, each student must complete and submit an application for financial aid for post-secondary education. Students must complete and submit either a free application for federal student aid (FAFSA) or a Texas application for state financial aid (TASFA).

FAFSA Completion Resources

- Scheduled Parent/Student FAFSA/TASFA day at the High School Campus
- Scheduled Meeting with High School Counselor
- www.studentaid.gov

A student is not required to complete and submit a FAFSA or TASFA if:

- The student's parent submits a form provided by the district indicating that the parent authorizes the student to opt out
- A student who is 18 years of age or older or a legally independent minor submits a form provided by the district indicating that the student opts out
- A school counselor authorizes the student to opt out for good cause

Please contact the school counselor for more information.

To confirm that a student has completed and submitted a FAFSA or TASFA, the student must submit one of the following:

- A screenshot that includes the processed date field of the FAFSA ApplyTexas Counselor Suite
- Notification, such as a copy of an email, from the United States Department of Education verifying completion of the FAFSA
- A copy or screenshot of the FAFSA acknowledgment page
- A screenshot of the TASFA submission acknowledgment page (from those institutions that offer an electronic form)
- An acknowledgment receipt from an institution of higher education (IHE)
- A copy of a financial aid award letter from an IHE

State Testing Requirements

The State of Texas has transitioned to a new state assessment system, the State of Texas Assessment of Academic Readiness (STAAR), which replaced the Texas Assessment of Knowledge and Skills (TAKS) for students who enter grade 9 in 2011 - 2025. Students who enter grade 9 in 2026 will not be required to take English II STAAR. Students must satisfy the requirements of the STAAR to meet state graduation requirements.

Students are required to take five end-of-course (EOC) tests in the four foundation content areas listed below:

Subject Area	End-of-Course Exam
English Language Arts	English 1 and English 2
Mathematics	Algebra 1
Science	Biology
Social Studies	U.S. History

The STAAR EOCs, which are aligned to college and career readiness, measure student performance and academic growth.

EOC Requirements for Graduation

To determine a student's performance, four levels of student performance will be used:

- Level I - Did Not Meet Standard
- Level II - Approaching Grade Level Performance
- Level III - Meets Grade Level Performance
- Level IV - Masters Grade Level Performance

To meet the State graduation requirements for assessment, a student must achieve the approaching grade level performance level on each of the five assessments.

Testing

PSAT 8/9

The PSAT 8/9 is a test for 8th and 9th grade students that will help you and your teachers determine what you need to work on the most so you are ready for college when you graduate from high school. It tests the same skills as the SAT, PSAT/NMSQT and PSAT10—in a way that makes sense for your grade level.

PSAT/NMSQT

The PSAT/NMSQT is a test for 10th and 11th grade students administered by College Board and cosponsored by the National Merit Scholarship Corporation in the U.S. The test helps students and their teachers to determine what you need to work on the most to prepare you for college when you graduate from high school. It tests the same skills as the SAT.

SAT

The SAT is a test for 11th and 12th grade students administered by College Board. The SAT is an entrance exam assessing Reading/Writing and Math skills, used by Texas schools for admissions and college readiness, as noted by the [Texas Education Agency](#). The SAT is administered to PHS Juniors in Spring

Texas Student Initiative (TSIA2) Math/ELAR

The TSI is a state-legislated program designed to improve student success in college. Part of the program is an assessment to determine your basic skills in reading, mathematics, and writing. Students planning on attending a junior college must take the TSI assessments before enrolling in college courses.

ASVAB

The ASVAB is a multiple-aptitude battery that measures developed abilities and helps predict future academic and occupational success in the military. It is administered annually to students in the junior class.

COURSE DESCRIPTION



COURSES DEFINED FOR GPA

The following provisions shall apply to students in the graduating class of 2026 and after.

The following courses will not be included in class rank or GPA: credit connection course; courses taken in junior high, summer school courses; remediation courses; credit by exam.

ADVANCED PLACEMENT (AP)

ADVANCED COURSES (A)

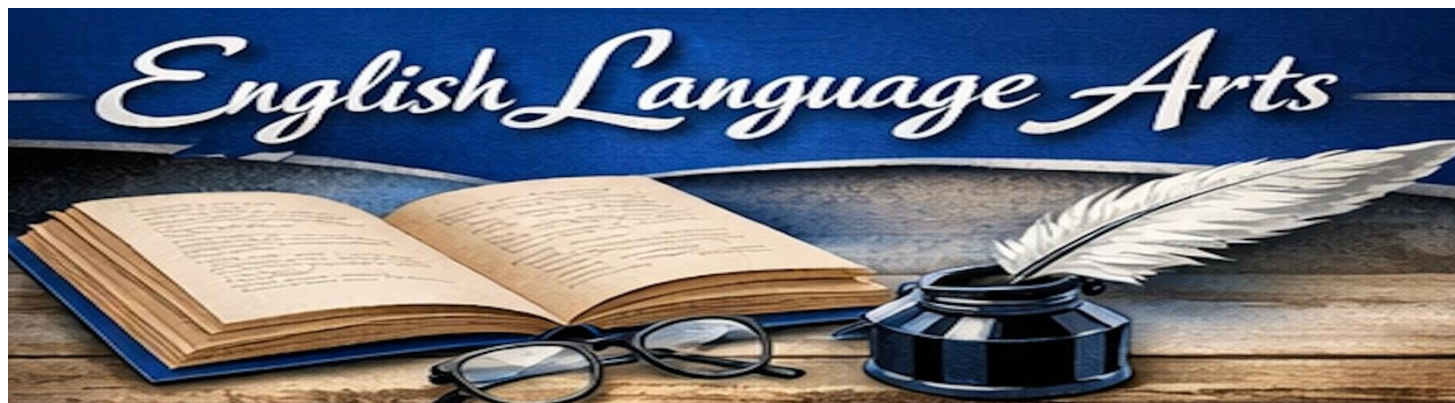
GENERAL COURSES (G)

The District shall convert semester grades earned in eligible courses to grade points in accordance with the following chart and shall calculate a weighted grade point average (GPA):

Grade	AP	Advanced	General
100	6.0	5.0	4.0
99	5.9	4.9	3.9
98	5.8	4.8	3.8
97	5.7	4.7	3.7
96	5.6	4.6	3.6
95	5.5	4.5	3.5
94	5.4	4.4	3.4
93	5.3	4.3	3.3
92	5.2	4.2	3.2
91	5.1	4.1	3.1
90	5.0	4.0	3.0
89	4.9	3.9	2.9
88	4.8	3.8	2.8
87	4.7	3.7	2.7
86	4.6	3.6	2.6
85	4.5	3.5	2.5
84	4.4	3.4	2.4

83	4.3	3.3	2.3
82	4.2	3.2	2.2
81	4.1	3.1	2.1
80	4.0	3.0	2.0
79	3.9	2.9	1.9
78	3.8	2.8	1.8
77	3.7	2.7	1.7
76	3.6	2.6	1.6
75	3.5	2.5	1.5
74	3.4	2.4	1.4
73	3.3	2.3	1.3
72	3.2	2.2	1.2
71	3.1	2.1	1.1
70	3.0	2.0	1.0
Below 70	0	0	0

Courses not included in class rank: STAAR EOC remediation courses, credit by exam, Correspondence courses, courses completed in summer school, courses completed in junior high, Study Hall, Office/Teacher Aide, Early Release period, and others designated in this course guide.



ENGLISH LANGUAGE ARTS

English - General Description

Students enrolled in English I-IV continue to increase and to refine their communication skills. High school students are expected to plan, draft, and complete written compositions on a regular basis. Students edit their papers for clarity, engaging language, and the correct use of the conventions and mechanics of written English and produce final, error-free drafts.

English I

Students practice all forms of writing in this course. An emphasis is placed on organizing logical arguments with clearly expressed related definitions, thesis, and evidence. Students write to persuade, to report and to describe. English I students read extensively in multiple genres from world literature such as reading selected stories, dramas, novels, and poetry originally written in English or translated to English from oriental, classical Greek, European, African, South American, and North American cultures. Students interpret the possible influences of the historical context on a literary work.

Grade: 9

Prerequisite: None

Credit: 1

Course Weight: G

English I Honors

This course provides in-depth studies of literary units by genre, including poetry, drama, nonfiction, short stories, research, and novels. Students will engage in critical reading and will write in a variety of forms, with special emphasis on literary units by genre, including poetry, drama, nonfiction, short stories, research, and novels.

Grade: 9

Prerequisite: None

Credit: 1

Course Weight: A

English II

Students practice all forms of writing in this course. An emphasis is placed on persuasive forms of writing such as logical arguments, expressions of opinion, and personal forms of writing. These personal forms of writing may include a response to literature, a reflective essay, or an autobiographical narrative. English II students read extensively in multiple genres from world literature such as reading selected stories, dramas, novels, and poetry originally written in English or translated to English from oriental, classical Greek, European, African, South American, and North American cultures. Students learn literary forms and terms associated with selections being read. Students interpret the possible influences of the historical context on a literary work.

Grade: 10

Prerequisite: English 1

Credit: 1
Course Weight: G

English II Honors

This course provides in-depth studies of thematic literary units that combine poetry, drama, nonfiction, short stories, research, and novels. Students will engage in critical reading and will write in a variety of forms, with special emphasis on literary analysis and persuasive essays.

Grade: 10
Prerequisite: English I
Recommended: English I H
Credit: 1
Course Weight: A

English III

Students practice all forms of writing in this course. An emphasis is placed on business forms of writing such as the report, the business memo, the narrative of a procedure, the summary or abstract, and the resume. English III students read extensively in multiple genres from American literature and other world literature. Periods from American literature may include the pre-colonial period, colonial and revolutionary periods, romanticism and idealism, realism and naturalism, early 20th century, and late 20th century. Students learn literary forms and terms associated with selections being read. Students interpret the possible influences of the historical context on a literary work.

Grade: 11
Prerequisite: English II
Credit: 1
Course Weight: G

English III Honors

This course engages students to become skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing.

Grade: 11
Prerequisite: English II
Recommended: English II H
Credit: 1
Course Weight: A

English IV

Students are expected to write in a variety of forms, including business, personal, literary, and persuasive texts. English IV students read extensively in multiple genres from British literature and other world literature. Periods from British literature may include the old English period, medieval period, English renaissance, 17th century, 18th century, romantic period, Victorian period, and modern and postmodern period. Students learn literary forms and terms associated with selections being read. Students interpret the possible influences of the historical context on a literary work.

Grade: 12
Prerequisite: English III
Credit: 1
Course Weight: G

English IV Honors

This course is designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students will deepen their understanding of the way's writers use language to provide both meaning and pleasure for their readers. As they read, students will consider a work's structure, style, and themes as well as such elements as the use of figurative language, imagery, symbolism, and tone. The course will include intensive study of representative works from various genres and periods.

Writing assignments will focus on the critical analysis of literature and will include expository, analytical, and argumentative essays as well as well- constructed, creative writing assignments. Emphasis will be placed on helping students develop stylistic maturity.

Grade: 12

Prerequisite: English III

Recommended: English III H

Credit: 1

Course Weight: A

English III DC

English 1301 Composition and Rhetoric I (Credit: 3 college hours)

English 1302 Composition and Rhetoric II (Credit: 3 college hours)

This course provides the opportunity for students to receive both high school and college credit at the same time. Students who enter this course must meet the enrollment criteria of Northeast Texas Community College and must pay their tuition at NTCC for three hours of college credit each semester. Grades will be recorded both at Pewitt High School and at NTCC and will appear on each institution's transcript. During the first semester, the course will include an intensive study of writing and reading skills, including research techniques. The second semester content will emphasize reading, critical thinking, research skills, and writing about various genres of literature.

Grade 11-12

Prerequisite: English II; college entrance requirements

Credit: 1 (high school)

Course Weight: A

English IV DC

English 2322 British Literature I (Credit: 3 college hours)

English 2323 British Literature II (Credit: 3 college hours)

This course provides the opportunity for students to receive both high school and college credit at the same time. Students who enter this course must meet the enrollment criteria of Northeast Texas Community College and must pay their tuition at NTCC for three hours of college credit each semester. Grades will be recorded both at Pewitt High School and at NTCC and will appear on each institution's transcript. During the first semester, this course will involve a survey of the development of British literature from the Anglo-Saxon period to the Eighteenth Century. Students will study works of prose, poetry, drama, and fiction in relation to their historical, linguistic, and cultural contexts. Texts will be selected from a diverse group of authors and traditions. The second semester will comprise a survey of the development of British literature from the Romantic period to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions.

Grade: 12

Prerequisite: English III DC; college entrance requirements

Credit: 1 (high school)

Course Weight: A

English IV DC**English 2311 Technical and Business Writing (Credit: 3 college hours)**

This course provides the opportunity for students to receive both high school and college credit at the same time. Students who enter this course must meet the enrollment criteria of Northeast Texas Community College and must pay their tuition at NTCC for three hours of college credit each semester. Grades will be recorded both at Pewitt High School and at NTCC and will appear on each institution's transcript. During the first semester, this course will focus on the types of documents necessary to make decisions and take action on the job, such as proposals, reports, instructions, policies and procedures, email messages, letters, and descriptions of products and services. Practice individual and collaborative processes involved in the creation of ethical and efficient documents.

Grade: 12

Prerequisite: English III

Credit: 1 (high school)

Course Weight: G

WRITING/ELA SKILLS

Practical Writing Skills

This course emphasizes skill in the use of conventions and mechanics of written English, the appropriate and effective application of English grammar, and the effective use of vocabulary. Students are expected to understand the recursive nature of the writing process. Evaluation of students' own writing as well as the writing of others ensures that students completing this course are able to analyze and evaluate their writing.

Grade: 10-12

Prerequisite: None

Credit: 1

Course Weight: Unweighted

Practical Writing Skills 2

This course is designed for students who need instruction in fundamental writing skills. This includes developing skills in the use of conventions and mechanics of written English, the appropriate and effective application of English grammar, and the effective use of vocabulary.

Grade: 10-12



MATHEMATICS

Algebra 1

Algebra I provides the foundation concepts for high school mathematics. Students will be introduced to algebraic thinking and will use symbols to study relationships among quantities. They will be introduced to the relationship between equations and functions and will receive the tools for algebraic thinking as well as the training to use technology to model mathematical situations to solve meaningful problems. Foundations will be laid for all functions, with emphasis on linear and quadratic.

Grade: 9-12

Prerequisite: None

Credit: 1

Course Weight: G

Algebraic Reasoning

Algebraic Reasoning allows students to broaden their knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build to the workforce and college readiness such as probes, measurement tools, and software tools, including spreadsheets.

Grade: 9-12

Prerequisite: Algebra 1

Credit: 1

Course Weight: G

Geometry

Geometry provides an opportunity to do geometric thinking and spatial reasoning. The student will study properties and relationships of all geometric figures relating to zero, one, two, and three dimensions and will be introduced to the relationship between geometry & other mathematics with other disciplines.

Grade: 9-12

Prerequisite: Algebra 1

Credit: 1

Course Weight: G

Geometry Honors

Geometry Honors will teach the required course content of Geometry and will give students additional opportunities for a more in-depth exploration of the elements of geometry. Students will be able to independently investigate the effects of geometry on the real world with the use of computer-enhanced constructions and modeling.

Grades: 9-12

Prerequisite: Algebra 1

Recommended: Algebra 1 Honors

Credit: 1

Course Weight: A

Algebra II

Algebra II allows students to continue to build on the algebraic skills of analysis of data and the foundations of Algebra I. It shows a connection between algebra and geometry and illustrates how the tools of one can be used to solve problems in the other. The course includes in-depth studies and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices.

Grades: 10-12

Prerequisites: Algebra 1, Geometry

Credit: 1

Course Weight: G

Algebra II Honors

Algebra II Honors contains the required content of Algebra II and extends knowledge to include more extensive data analysis and problem solving necessary to be successful in the AP mathematics program. Students learn how to become successful independent thinkers and problem-solvers. The course includes in-depth studies and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices.

Grade: 10-12

Prerequisite: Algebra 1; Geometry

Recommended: Algebra 1 Honors; Geometry Honors

Credit: 1

Course Weight: A

Algebra II DC

This course provides the opportunity for students to receive both high school and college credit at the same time. Students who enter this course must meet the enrollment criteria of Northeast Texas Community College and must pay their tuition at NTCC for three hours of college credit each semester. Grades will be recorded both at Pewitt High School and at NTCC and will appear on each institution's transcript. MATH1314 at NTCC will be completed in the 2nd semester. Algebra II DC contains the required content of Algebra II and extends knowledge to include more extensive data analysis and problem solving necessary to be successful in the AP mathematics program. Students learn how to become successful independent thinkers and problem-solvers. The course includes in-depth studies and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices.

Grade: 10-12

Prerequisite: Algebra 1; Geometry

Recommended: Algebra 1 Honors; Geometry Honors (Math TSIA2)

Credit: 1

Course Weight: A

Pre-Calculus

Precalculus allows students to continue to build on the mathematical foundations laid in Algebra I, II, and Geometry. Students will use functions, equations, and limits as useful tools for expressing generalizations and as means for analyzing and understanding a broad variety of mathematical relationships. Students are expected to have a good working knowledge of a graphics calculator.

Grade: 11-12

Prerequisite: Algebra 1, Geometry, Algebra II

Credit: 1

Course Weight: A

Pre-Calculus DC

This course provides the opportunity for students to receive both high school and college credit at the same time. Students who enter this course must meet the enrollment criteria of Northeast Texas Community College and must pay their tuition at NTCC for three hours of college credit each semester. Grades will be recorded both at Pewitt High School and at NTCC and will appear on each institution's transcript. MATH 2412 at NTCC will be completed in the 1st semester. Precalculus DC allows students to continue to build on the mathematical foundations laid in Algebra I, II, and Geometry. Students will use functions, equations, and limits as useful tools for expressing generalizations and as means for analyzing and understanding a broad variety of mathematical relationships. Students are expected to have a good working knowledge of a graphics calculator.

Grade: 11-12

Prerequisite: Algebra II DC

Credit: 1

Course Weight: A

Calculus

Calculus is a mathematics course that builds on the concepts learned in precalculus including multiple representations, applications and modeling, justification and proof, and computation in problem-solving contexts. This course is designed to expose students interested in pursuing a college major in business, engineering or the medical field to calculus concepts.

Grade: 11-12

Prerequisite: Precalculus

Credit: 1

Course Weight: A

MATH ELECTIVES**Practical Math**

This course is designed for students who need to master fundamental math skills. These skills are taught in an effort to improve the student's overall academic readiness.

Grade: 9-12

Prerequisite: EOC scores and teacher recommendation

Credit: 1

Course Weight: Unweighted



SCIENCE

Integrated Physics & Chemistry

Learning about matter, energy, and technology and their involvement with all forms of life has become increasingly important for living in today's complex world. Through laboratory and classroom experiences, students will integrate introductory concepts in chemistry and physics to life and earth sciences. Enrichment and application will be emphasized through use of experiments, research, critical thinking, problem-solving and multicultural connections. It will also integrate the disciplines of physics and chemistry in the following topics: motion, waves, transformations, properties of matter, changes in matter and solution chemistry.

Grade: 9-10

Prerequisite: None

Credit: 1

Course Weight: G

Biology

In Biology, students conduct field and laboratory 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, tissues, and organs; nucleic acids and genetics; biological evolution; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; ecosystems; and plants and the environment.

Grade: 9-11

Prerequisite: None

Credit: 1

Course Weight: G

Biology Honors

This course provides challenging scientific problem-solving experiences and encourages thinking, inquiry, and integrative applications of scientific concepts. It focuses on biology as a viable, creatively changing experience having impact upon life. Topics covered in the course will include molecules and cells, heredity and environment, and organisms and populations.

Grade: 9-10

Prerequisite: Algebra 1

Credit: 1

Course Weight: A

Chemistry

In Chemistry, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem-solving. Students study a variety of topics that include characteristics of matter; energy transformations during physical and chemical changes; atomic structure; periodic table of elements; behavior of gasses; bonding; nuclear fusion and nuclear fission; oxidation-reduction reactions; chemical equations; solutes; properties of solutions; acids and bases; and chemical reactions. Students will investigate how chemistry is an integral part of our daily lives.

Grade: 10-12

Prerequisites: 1 unit of science & Algebra 1

Credit: 1

Course Weight: G

Chemistry Honors

Inclusive of the Chemistry I content and processes, the honors course also emphasizes preparation for Chemistry II AP and Biology II AP by including many of the advanced topics and experiences of Chemistry II AP at a beginning level. Topics emphasized will include structure of matter, states of matter, and chemical reactions. The course has a strong problem-solving orientation and includes associated laboratory experimentation.

Grade: 10-12

Prerequisite: Biology Honors; 1 unit of science & Algebra 1

Credit: 1

Course weight: A

Anatomy and Physiology

In this course, students conduct laboratory investigations and fieldwork, use scientific methods during investigations, and make informed decisions using critical thinking and problem solving. Instruction will be presented through an integration of biology, chemistry, and physics. Students will study the structures and functions of the human body and body systems and will investigate the body's responses to forces, maintenance of homeostasis, electrical interactions, transport systems, and energy systems. *This course must include at least 40% laboratory investigations and fieldwork using appropriate scientific inquiry.*

Grade: 11-12

Prerequisite: Biology and Chemistry or Chemistry concurrently

Credit: 1

Course Weight: A

Scientific Research and Design

In this course, the student, for at least 40% of instructional time, conducts laboratory and field investigations using safe, environmentally appropriate, and ethical practices. These investigations will involve actively obtaining and analyzing data with physical equipment, but may also involve experimentation in a simulated environment as well as field observations that extend beyond the classroom.

Grade: 11-12

Prerequisite: 3rd science credit

Credit: 1

Course Weight: G

Forensics

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

Grade: 11-12

Prerequisite: 3rd science Credit

Credit: 1
Course Weight: G

Advanced Animal Science or DC

This course provides the opportunity for students to receive both high school and college credit at the same time. Students who enter this course must meet the enrollment criteria of Northeast Texas Community College and must pay their tuition at NTCC for three hours of college credit each semester. Grades will be recorded both at Pewitt High School and at NTCC and will appear on each institution's transcript. If students want to take the dual credit course at NTCC, they will take AGRI 1419, Introduction to Animal Science. This course focuses on Scientific animal agriculture. Importance of livestock and meat industries. Selection, reproduction, nutrition, management, and marketing of beef cattle, swine, sheep, goats and horses.

Grade: 11-12
Prerequisite: 3rd science Credit
Credit: 1
Course Weight: A

Advanced Plant Science or DC

This course provides the opportunity for students to receive both high school and college credit at the same time. Students who enter this course must meet the enrollment criteria of Northeast Texas Community College and must pay their tuition at NTCC for three hours of college credit each semester. Grades will be recorded both at Pewitt High School and at NTCC and will appear on each institution's transcript. If students want to take the dual credit course at NTCC, they will take AGRI 1415, Horticulture. Three hours of lecture and two hours of lab each week. Structure, growth, and development of horticulture plants from a practical and scientific approach. Environmental effects, basic principles of propagation, greenhouse and outdoor production, nutrition, pruning, chemical control of growth, pest control, and landscaping.

Grade: 11-12
Prerequisite: 3rd science Credit
Credit: 1
Course Weight: A

Physics or Physics DC

This course provides the opportunity for students to receive both high school and college credit at the same time. Students who enter this course must meet the enrollment criteria of Northeast Texas Community College and must pay their tuition at NTCC for three hours of college credit each semester. Grades will be recorded both at Pewitt High School and at NTCC and will appear on each institution's transcript. If students want to take the dual credit course at NTCC, they will take PHYS 1401 and PHYS 1402, General Physics. The course focus on fundamental principles of physics, using algebra and trigonometry; the principles and applications of classical mechanics and thermodynamics, including harmonic motion, mechanical waves and sound, physical systems, Newton's Laws of Motion, and gravitation and other fundamental forces; with emphasis on problem solving.

Grade: 11-12
Prerequisite: 3rd science Credit
Credit: 1
Course Weight: A

Note: 9th through 11th grade students may take one advanced science course. 12th grade students may take two advanced science courses.



SOCIAL STUDIES

World Geography

In this course, students examine people, places, and environments at local, regional, national, and international scales. Students describe the influence of geography on events of the past and present. A significant portion of the course centers on the physical processes that shape patterns in the physical environment; the characteristics of major landforms, climate, 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.

Grade: 9-12

Prerequisite: None

Credit: 1

Course Weight: G

World Geography Honors

This course will focus on the required course content for World Geography, numerous enrichment concepts, and the skills needed for students to succeed in Advanced Placement courses in Social Studies. The Honors Geography course will require outside reading, writing, and projects that will provide practice in document, map, graph, and chart analysis; critical reading; research; essay writing; and both guided and independent studies.

Grade: 9-12

Prerequisite: None

Credit: 1

Course Weight: A

World History

World History offers 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. This course is designed to provide students with a vital understanding of the past in order to help them understand their own times. Attention is given to growth of ideas, the arts, religion, education, literature, and other aspects of intellectual and social history, as well as political, geographic, and economic history of world cultures. Students use the process of historical inquiry to research, interpret, and use multiple sources of evidence.

Grade: 10-12

Prerequisite: None

Credit: 1

Course Weight: G

World History Honors

In addition to the requirements listed in the World History course, students in World History Pre-AP will develop skills in critical reading, research, document evaluation, and essay writing. Class activities provide

opportunities for explanation of topics through independent research and allow for creative expression of student learning. Outside reading and projects will be required. Both the state-adopted and college textbooks will serve as resources.

Grade: 10-12

Prerequisite: None

Recommended: World Geography Honors

Credit: 1

Course Weight: A

U.S. History Since Reconstruction

In this course, 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 from Reconstruction to the present through the use of reading, research, writing, and interpretation of maps, charts, graphs, and tables. Historical content focuses on political, economic, military, diplomatic, and social events and issues, including the contributions of significant groups and individuals to the history of this country, and the impact of geographic factors on major events. An important part of the content is the development and application of the principles of citizenship. Students will use critical thinking skills to explain and apply methods of interpreting the past, including points of view and historical context. They will use a variety of rich primary and secondary source material, such as biographies and autobiographies, Supreme Court cases, novels, speeches, letters, diaries, poetry, songs, artworks, photographs, documentaries, and films.

Grade: 11-12

Prerequisite: None

Credit: 1

Course Weight: G

U.S. History Honors

In addition to the requirements listed in the World History course, students in World History Pre-AP will develop skills in critical reading, research, document evaluation, and essay writing. Class activities provide opportunities for explanation of topics through independent research and allow for creative expression of student learning. Outside reading and projects will be required. Both the state-adopted and college textbooks will serve as resources.

Grade: 10-12

Prerequisite: None

Recommended: World Geography Honors

Credit: 1

Course Weight: A

U.S. History DC

HIST 1301 History of the United States (3 college hours)

HIST 1302 History of the United States (3 college hours)

This course provides the opportunity for students to receive both high school and college credit at the same time. Students who enter this course must meet the enrollment criteria of Northeast Texas Community College and must pay their tuition at NTCC for three hours of college credit each semester. College textbooks, selected by NTCC, will be provided by PCISD. Grades will be recorded both at Pewitt High School and at NTCC and will appear on each institution's transcript. The course will be based on the same criteria as Advanced Placement U. S. History, including all reading, writing, and projects. In addition, students will be expected to participate in the life of the community as part of the historical experience. This course will be taught online.

Grade: 11-12

Prerequisite: College entrance requirements

Credit: 1 (high school)

Course Weight: A

Government

This course focuses 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. 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 they compare the U.S. system of government with other political systems.

Grade: 12

Prerequisite: US History

Credit: ½

Course Weight: G

U.S. Government DC**GOVT 2305 United States Government (3 college hours)**

This course provides the opportunity for students to receive both high school and college credit at the same time. Students who enter this course must meet the enrollment criteria of Northeast Texas Community College and must pay their tuition at NTCC for three hours of college credit. Grades will be recorded both at Pewitt High School and at NTCC and will appear on each institution's transcript. This course will be based on the origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights. This course will be taught online.

Grade: 12

Prerequisite: US History; college entrance requirements

Credit: ½ high school credit

Course weight: A

Economics

This course is a comprehensive study of the American free enterprise economy. It includes the study of basic concepts of economics, the market system, the American business system, labor unions, money and banking, business cycles, consumer skills, the role of government in free enterprise, and comparative economic systems. Emphasis is placed upon economic decision-making and personal development strategies.

Grade: 12

Prerequisite: US History

Credit: ½

Course Weight: G

Economics DC**ECON 2301 Principles of Macroeconomics (3 college hours)**

This course provides the opportunity for students to receive both high school and college credit at the same time. Students who enter this course must meet the enrollment criteria of Northeast Texas Community College and must pay their tuition at NTCC for three hours of college credit each semester. Grades will be recorded both at Pewitt High School and at NTCC and will appear on each institution's transcript. This course is a comprehensive study of the American free enterprise economy. It includes the study of basic concepts of economics, the market system, the American business system, labor unions, money and banking, business cycles, consumer skills, the role of government in free enterprise, and comparative economic systems. Emphasis is placed upon economic decision-making and personal development strategies. This course will be taught online.

Grade: 12

Prerequisite: US History; college entrance requirements

Credit: ½ high school credit

Course weight: A

Personal Financial Literacy

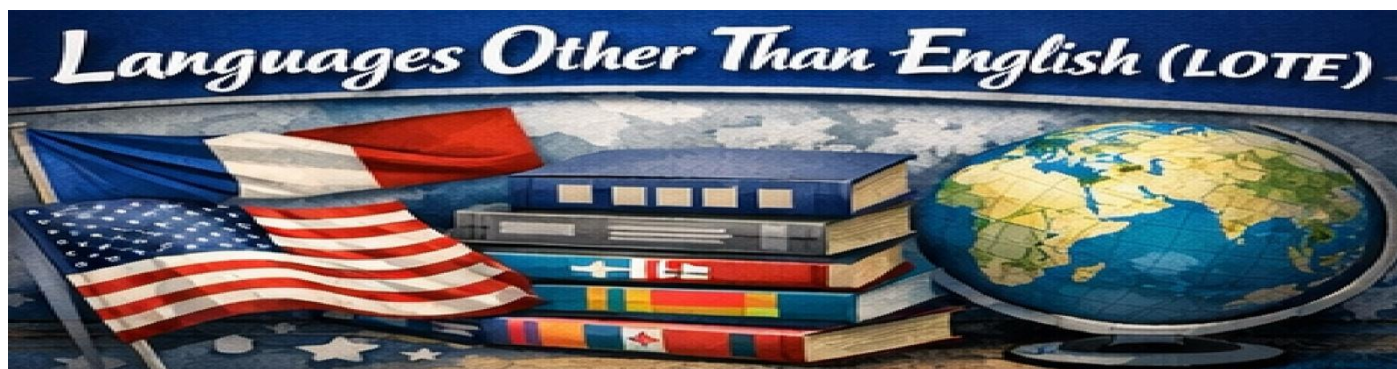
In this course, students will gain the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility. The knowledge gained in this course has far-reaching effects for students personally as well as the economy as a whole.

Grade: 10-12

Prerequisite: None

Credit: ½

Course Weight: G



LANGUAGES OTHER THAN ENGLISH

General Description

Acquiring another language incorporates communication skills such as listening, speaking, reading, writing, viewing, and showing. Students develop these communication skills by using knowledge of the language (including grammar), knowledge of the culture, communication and learning strategies, technology, and content from other subject areas to socialize, to acquire and provide information, to express feelings and opinions, and to get others to adopt a course of action. While knowledge of other cultures, connections to other disciplines, comparisons between languages and cultures, and community interaction all contribute to and enhance the communicative language learning experience, communication skills are the primary focus of language acquisition.

Spanish I

Spanish II

In levels I and II courses (novice levels), students will demonstrate an understanding of simple, clearly spoken, and written language. Students will develop an understanding of the practices and perspectives of the cultures studied; use the language to obtain, reinforce, or expand knowledge of other subject areas; demonstrate an understanding of the influence of language and culture on another; and use the language both within and beyond the school setting through activities such as participating in cultural events and using technology to communicate.

Spanish I

Grade: 9-12

Prerequisite: None

Credit: 1

Course Weight: G

Spanish II

Grade: 9-12

Prerequisite: Spanish I

Credit: 1

Course Weight: G

Spanish II DC

Grade: 10-12

Prerequisite: Spanish I

Credit: 1

Course Weight: A

Computer Science I**Computer Science II**

In levels I and II courses 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 including activities such as participating in cultural events and using technology to communicate.

Computer Science I DC**Grade: 10th****Prerequisite: None****Credit: 1****Course Weight: A****Computer Science II DC****Grade: 11th****Prerequisite: Computer Science I DC****Credit: 1****Course Weight: A**



FINE ARTS

Art Courses - General Description

Art courses are offered on four different levels which all share the same four basic strands—perception, creative expression/performance, historical and cultural heritage, and critical evaluation. Students rely on their perceptions of the environment, developed through increasing visual awareness and sensitivity to surroundings, memory, imagination, and life experiences, as a source for creating artworks. They express their thoughts and ideas creatively, while challenging their imagination, fostering reflective thinking, and developing disciplined effort and problem-solving skills.

Art I

This course introduces the elements and principles of art and attempts to provide experiences that will enable students to express creative ideas through a variety of mediums: design, drawing, painting, printmaking, and sculpture.

Grade: 9-12

Prerequisite: None

Credit: 1

Course Weight: G

Art II

This course continues to teach the elements and principles of art and attempts to provide experiences that will enable students to express creative ideas through a variety of mediums: design, drawing, painting, printmaking, and sculpture.

Grade 10-12

Prerequisite: Art I

Credit: 1

Course Weight: G

Art III

This course continues to teach the elements and principles of art and attempts to provide experiences that will enable students to express creative ideas through a variety of mediums: design, drawing, painting, printmaking, and sculpture.

Grade: 11-12

Prerequisite: Art II

Credit: 1

Course Weight: G

Art IV

This course continues to teach the elements and principles of art and attempts to provide experiences that will enable students to express creative ideas through a variety of mediums: design, drawing, painting, printmaking, and sculpture.

Grade: 12

Prerequisite: Art III

Credit: 1

Course Weight: G

Music Courses - General Description

Music courses are offered on four different levels which all share the same four basic strands—perception, creative expression/performance, historical and cultural heritage, and critical evaluation. In music, students develop their intellect and refine their emotions, understanding the cultural and creative nature of musical artistry and making connections among music, the other arts, technology, and other aspects of social life. Through creative performance, students apply the expressive technical skills of music and critical-thinking skills to evaluate multiple forms of problem solving.

Band I**Band 2****Band 3****Band 4**

Grade: 9-12

Prerequisite: Prior Level

Course Weight 1 and 2: G

Course Weight 3 and 4: G

Theatre Courses - General Description

Theatre courses are offered on four different levels which all share the same four basic strands—perception, creative expression/performance, historical and cultural heritage, and critical evaluation. In theatre, students increase their understanding of self and others and develop clear ideas about the world. Through a variety of theatrical experiences, students communicate in a dramatic form, make artistic choices, solve problems, build positive self- concepts, and relate interpersonally.

Theatre Production I

In level I courses, students are exposed to the elements of drama and the conventions of theatre. Students will focus on the skills of improvisation; employ stage movement to convey thought, feelings, and actions; and define and give examples of theatrical conventions. Students will learn to analyze a character from a script, describing physical, intellectual, emotional, and social dimensions. They also will improvise, write, and refine monologues, scenes, and vignettes to convey meaning to the audience. Students will develop an understanding of the historical and cultural influences on theatre and analyze the roles of live theatre, film, television, and electronic media in American society.

Grade: 9-12

Prerequisite: None

Course Weight: G

Theatre Production II

In level II courses, students will use the elements of drama and the conventions of theatre. Students will focus on the analysis of dramatic structure and genre and will identify examples of theatrical conventions in theatre, film, television, and electronic media. Students improvise and write dialogue that reveals character motivation and analyze characters from various genres and media. Students also analyze historical and cultural influences on theatre. Students will apply the concepts of evaluation to theatre in written and oral form with precise and specific observations.

Grade: 10-12

Prerequisite: Theatre Production I

Credit: 1

Course Weight: G

Theatre Production III

In level III courses, students develop creative expression through performance. Students portray believable characters in improvised and scripted scenes of various styles. They also improvise and write dialogue that reveals character motivation, advances plot, provides exposition, and reveals themes. Students learn to construct and operate the technical elements of theatre safely and effectively. Students apply the concepts of evaluation to performances and evaluate theatre, film, television, and electronic media with depth and complexity.

Grade: 11-12

Prerequisite: Theatre Production II

Credit: 1

Course Weight: G

Theatre Production IV

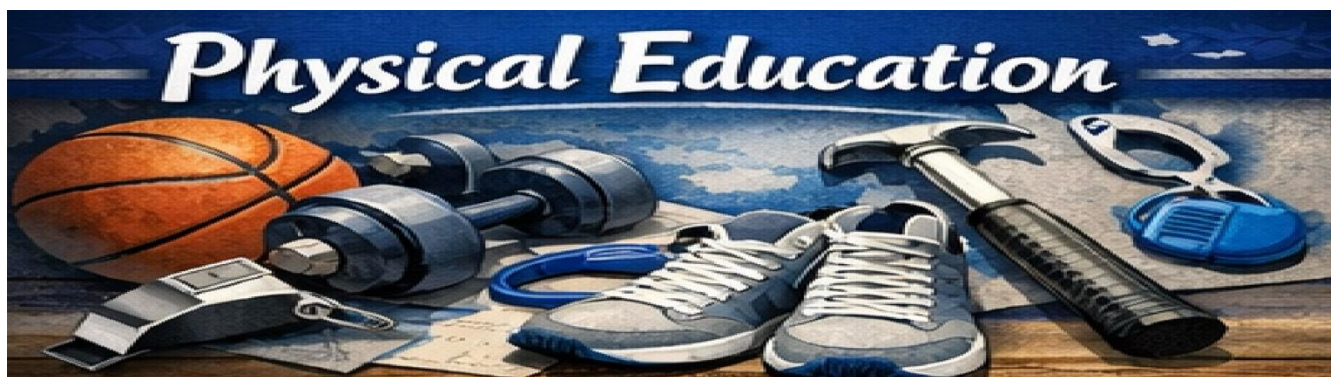
In level IV courses, students refine methods of creative expression and performance. Students create and sustain believable characters. They outline and create imaginative scripts and scenarios that include motivated character, unique dialogue, conflict, and resolution for theatre, film, or television. Students design, construct, and operate appropriate technical elements of theatre, safely and effectively, collaboratively and individually. Students also have the opportunity to trace historical and cultural developments in theatrical styles and genres and to apply evaluation concepts to performances, comparing and contrasting literary and dramatic criticism. In this level, students compare the nature, components, elements, and communication methods of theatre, music, art, and dance and compare more than one art form in a specific culture or historical period.

Grade: 12

Prerequisite: Theatre Production III

Credit: 1

Course Weight: G



PHYSICAL EDUCATION

Foundations of Personal Fitness

This course represents a new approach in physical education and the concept of personal fitness. The basic purpose of the course is to motivate students to strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness. The concept of wellness, or striving to reach optimal levels of health, is the cornerstone of this course.

Grade: 9-12

Prerequisite: None

Credit: 1

Course Weight: G

Boys Athletics 1

Boys Athletics 2

Boys Athletics 3

Boys Athletics 4

Girls Athletics 1

Girls Athletics 2

Girls Athletics 3

Girls Athletics 4

All athletic classes are sanctioned by the University Interscholastic League. In order to participate, a student must maintain a 70 average in all classes. A complete doctor's physical is required from each student athlete upon entering the 9th grade. Insurance is provided to each student athlete while participating in or while traveling to and from any UIL event sanctioned and chaperoned by PCISD. PCISD provides this insurance at no cost to the student athlete. Each student athlete is required to attend every practice session, unless previously excused by the head coach due to extenuating circumstances. All missed practice time will be made up. Each student will be required to abide by the rules set up by the Athletic Department without exception.

Grade: 9-12

Prerequisite: Physical Exam

Credit: 1

Course Weight 1 and 2: G

Course Weight 3 and 4: G

Boys Athletics

Basketball
Baseball
Cross Country
Football
Golf
Powerlifting
Tennis
Track

Girls Athletics

Basketball
Cross Country
Golf
Powerlifting
Softball
Tennis
Track
Volleyball

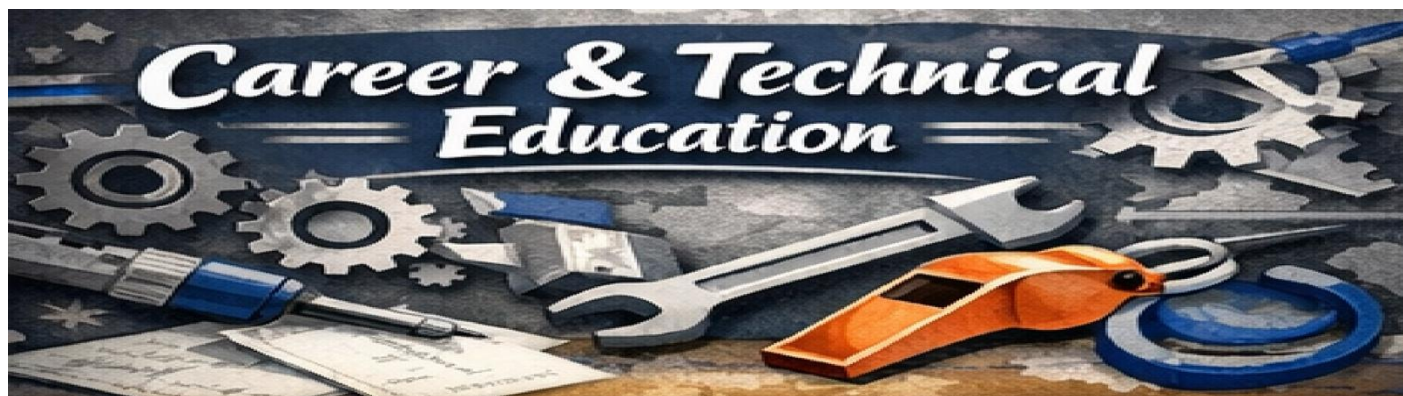
NCAA Academic Requirements

NCAA regulations stipulate that all academic “core” courses must be completed during high school for eligibility in Division I or Division II college athletics. Remedial and below-level courses do not qualify as “core” courses. Students attending all four years of high school at PHS will meet the “core” requirements when they graduate under the Foundation High School Program with an Endorsement or the Foundation High School Program with Distinguished Achievement. NCAA Division I and Division II college eligibility requirements also include varying ACT/SAT and “core” course requirements. In order to meet NCAA requirements a student must have at least a 70 average each semester in core courses. Athletes need to register with the NCAA during their junior year. Students may register on-line at www.ncaaclearinghouse.com. NCAA approved courses are listed below:

<u>English</u>	<u>Social Studies</u>	<u>Natural/Physical Science</u>
English I	Economics	Anatomy & Physiology
English II	Psychology	Biology I
English III	Sociology	Chemistry I
English IV	U.S. Government	Chemistry II
Debate	U.S. History	Environmental Systems
	World History	Physics
	World Geography	Forensic Science
		Scientific Research & Design
		IPC
<u>Math</u>		
Algebra I		
Algebra II		
Geometry		
Pre-Calculus		
Calculus		
Math Models		

Additional Courses

Spanish I, II, III, IV



CAREER & TECHNICAL EDUCATION COURSES



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 occupations ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist.

Statewide Program of Study: Animal Science

The Animal Science program of study focuses on occupational and educational opportunities associated with the science, research, and business of animals and other living organisms. This program of study includes applying 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 will 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 | <ul style="list-style-type: none"> Principles of Agriculture, Food, and Natural Resources |
| Level 2 | <ul style="list-style-type: none"> Small Animal Management Equine Science Entrepreneurship I |
| Level 3 | <ul style="list-style-type: none"> Livestock and Poultry Production Livestock and Poultry Production + Agricultural Laboratory and Field Experience |
| Level 4 | <ul style="list-style-type: none"> Advanced Animal Science Veterinary Science Veterinary Science + Agricultural Laboratory and Field Experience Career and Technical Education Project-Based Capstone Practicum in Agriculture, Food, and Natural Resources Practicum in Agriculture, Food, and Natural Resources + Extended Practicum in Agriculture, Food, and Natural Resources Practicum in Entrepreneurship Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship Career Preparation for Programs of Study Career Preparation for Programs of Study + Extended Career Preparation Scientific Research and Design |

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	- Shadow an animal scientist in a biology lab to learn about applying science to understand animals and wildlife - Intern in a veterinary clinic, caring for animals and wildlife being treated in the clinic
Expanded Learning Opportunities	- Participate in an FFA career, leadership, and speaking contest like an agriscience fair - Attend an agricultural industry seminar

Aligned Industry-Based Certifications

- | | |
|---|---|
| <ul style="list-style-type: none"> AgriLife Veterinary Assistant Certificate Certified Veterinary Assistant, Level 1 Elanco Fundamentals of Animal Science Certification Elanco Veterinary Medical Applications Certification | <ul style="list-style-type: none"> Equine Management & Evaluation Certification Licensed Veterinary Technician Production Agriculture - Job Ready Small Animal Science and Technology |
|---|---|



Successful completion of the Animal Science program of study will fulfill requirements of a Business and Industry endorsement.



Example Postsecondary Opportunities

Apprenticeships

- Reproduction Technician

Associate Degrees

- Biological and Physical Sciences
- Entomology

Bachelor's Degrees

- Animal Science
- Zoology/Animal Biology

Master's, Doctoral, and Professional Degrees

- Marine Sciences
- Biotechnology

Additional Stackable IBCs/License

- Veterinarian
- Certified Veterinary Technician



Example Aligned Occupations

Veterinary Assistants and Laboratory Animal Caretakers

Median Wage: \$33,581
Annual Openings: 1,953
10-Year Growth: 24%

Veterinary Technologists and Technicians

Median Wage: \$35,698
Annual Openings: 1,820
10-Year Growth: 24%

Veterinarians

Median Wage: \$125,030
Annual Openings: 435
10-Year Growth: 26%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024



For more information visit:

<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/afnr-animal-science-extended.pdf>

Business and Industry - Animal Science

- Principles of AFNR (Course Weight: G)
- Small Animal Management/Equine Science (Course Weight: G)
- Livestock Production (Course Weight: G)
- Practicum in Agriculture, Food, and Natural Resources (Course Weight: G) or Advanced Animal Science (Course Weight: A) or Scientific Research and Design (Course Weight: G)

Revised–November 2025



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 occupations ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist.

Statewide Program of Study: Agricultural Technology and Mechanical Systems

The Agricultural Technology and Mechanical Systems program of study focuses on occupational and educational opportunities associated with applying engineering technology and biological science to agricultural problems related to power and machinery, electrification, structures, soil and water use, and processing agricultural products. This program of study includes 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 | <ul style="list-style-type: none"> Principles of Agriculture, Food, and Natural Resources |
| Level 2 | <ul style="list-style-type: none"> Agricultural Mechanics and Metal Technologies Agricultural Mechanics and Metal Technologies + Agricultural Laboratory and Field Experience |
| Level 3 | <ul style="list-style-type: none"> Agricultural Structures Design and Fabrication Agricultural Structures Design and Fabrication + Agricultural Laboratory and Field Experience Agricultural Power Systems Agricultural Power Systems + Agricultural Laboratory and Field Experience Geographic Information Systems (GIS) for Agriculture |
| Level 4 | <ul style="list-style-type: none"> Agricultural Equipment Design and Fabrication Agricultural Equipment Design and Fabrication + Agricultural Laboratory and Field Experience Career and Technology Project-Based Capstone Practicum in Agriculture, Food, and Natural Resources Practicum in Agriculture, Food, and Natural Resources + Extended Practicum in Agriculture, Food, and Natural Resources Career Preparation for Programs of Study Career Preparation for Programs of Study + Extended Career Preparation Scientific Research and Design |

Work-Based Learning and Expanded Learning Opportunities

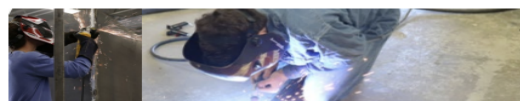
Work-Based Learning Activities	- Participate in a farm mechanic apprenticeship at an equipment production company - Intern at an equipment manufacturing facility working with agricultural engineers
Expanded Learning Opportunities	- Participate in an FFA career, leadership, and speaking contest like an agriscience fair - Participate in an agriculture robotics event

Aligned Industry-Based Certifications

- | | |
|---|--|
| <ul style="list-style-type: none"> Agriculture Mechanics API 1104 Welding Pipelines and Related Facilities AWS Certified Welder AWS D1.1 Structural Steel AWS D9.1 Sheet Metal Welding AWS SENSE Level 1: Entry Welder Core Industrial Technology Maintenance (ITM) - Basic Pneumatic Systems | <ul style="list-style-type: none"> Industrial Technology Maintenance (ITM) - Maintenance Welding Machining Measurement, Material, and Safety Welding - Job Ready Welding and Fabrication Welding Level 2 Welding Level I |
|---|--|



Successful completion of the Agricultural Technology and Mechanical Systems program of study will fulfill requirements of the Business and Industry endorsement.



Example Postsecondary Opportunities

- Apprenticeships**
 - Farm Equipment Mechanic I
- Associate Degrees**
 - Diesel Mechanics Technology
 - Industrial Mechanics and Maintenance Technology
- Bachelor's Degrees**
 - Agricultural Engineering
 - Agricultural Systems Management
- Master's, Doctoral, and Professional Degrees**
 - Agricultural Engineering
 - Industrial Technology
- Additional Stackable IBCs/License**
 - Diesel Equipment Technology-Off Highway Specialization CER1
 - Accredited Farm Manager



Example Aligned Occupations

Farm Equipment Mechanics and Service Technicians
Median Wage: \$41,258
Annual Openings: 315
10-Year Growth: 23%

Mobile Heavy Equipment Mechanics
Median Wage: \$60,005
Annual Openings: 2,315
10-Year Growth: 31%

Farmers, Ranchers, and Other Agricultural Managers
Median Wage: \$79,064
Annual Openings: 30,363
10-Year Growth: 4%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.



For more information visit:
<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/ag-technology-and-mechanical-systems-extended.pdf>

Agricultural Technology and Mechanical Systems

Business and Industry – Agricultural Technology and Mechanical Systems

- Principles of Agriculture, Food, and Natural Resources (Course Weight: G)
- Agricultural Mechanics and Metal Technologies (Course Weight: G)
- Agricultural Structures Design and Fabrications (Course Weight: G)
- Practicum in Agriculture, Food, and Natural Resources (Course Weight: G)



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 occupations ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist.

Revised—November 2025

Statewide Program of Study: *Environmental and Natural Resources*

The Environmental and Natural Resources program of study focuses on occupational and educational opportunities associated with the research, design, and engineering of plans for prevention and control of environmental hazards. This program of study includes conducting research for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or the health of the population.



Secondary Courses for High School Credit

- | | |
|----------------|---|
| Level 1 | <ul style="list-style-type: none"> Principles of Agriculture, Food, and Natural Resources |
| Level 2 | <ul style="list-style-type: none"> Beekeeping and Honey Processing Wildlife, Fisheries, and Ecology Management Wildlife, Fisheries, and Ecology Management + Agricultural Laboratory and Field Experience Forestry and Woodland Ecosystems Forestry and Woodland Ecosystems + Agricultural Laboratory and Field Experience |
| Level 3 | <ul style="list-style-type: none"> Energy and Natural Resource Technology Energy and Natural Resource Technology + Agricultural Laboratory and Field Experience Range Ecology and Management Range Ecology and Management + Agricultural Laboratory and Field Experience |
| Level 4 | <ul style="list-style-type: none"> Advanced Energy and Natural Resource Technology Advanced Energy and Natural Resource Technology + Agricultural Laboratory and Field Experience Career and Technical Education Project-Based Capstone Practicum in Agriculture, Food, and Natural Resources Practicum in Agriculture, Food, and Natural Resources + Extended Practicum in Agriculture, Food, and Natural Resources Career Preparation for Programs of Study Career Preparation for Programs of Study + Extended Career Preparation Scientific Research and Design |

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	- Intern in an environmental services office in local government to learn about sanitation and waste management - Participate in a water treatment plant operator apprenticeship at a local water management company
Expanded Learning Opportunities	- Participate in an FFA career, leadership, and speaking contest like an agriscience fair - Attend an agricultural industry seminar

Aligned Industry-Based Certifications

- | | |
|---|--|
| <ul style="list-style-type: none"> Ducks Unlimited Ecology Conservation and Management Certification | <ul style="list-style-type: none"> Forest Worker Credential Water Operators, Class D |
|---|--|



Example Postsecondary Opportunities

Apprenticeships

- Water Treatment Plant Operator



Associate Degrees

- Environmental/Environmental Engineering Technology
- Water Quality and Wastewater Treatment Management and Recycling Technology

Bachelor's Degrees

- Environmental Engineering
- Environmental Health

Master's, Doctoral, and Professional Degrees

- Biology/Biological Sciences
- Ecology

Additional Stackable IBCs/License

- Pesticide Dealer License



Example Aligned Occupations

Environmental Engineering Technologists and Technicians

Median Wage: \$53,997
Annual Openings: 79
10-Year Growth: 18%

Environmental Scientists and Specialists

Median Wage: \$79,386
Annual Openings: 407
10-Year Growth: 25%

Environmental Engineers

Median Wage: \$114,899
Annual Openings: 228
10-Year Growth: 18%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024



For more information visit:

<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/afnr-environmental-and-natural-resources-extended.pdf>



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

Business and Industry - Environmental and Natural Resources

- Principles of Agriculture, Food, and Natural Resources (Course Weight: G)
- Wildlife, Fisheries, and Ecology Management (Course Weight: G)
- Scientific Research and Design (Course Weight: G)
- Practicum in Agriculture, Food, and Natural Resources (Course Weight: G)

Revised–November 2025



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 occupations ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist.

Statewide Program of Study: Plant Science

The Plant Science program of study focuses on occupational and educational opportunities associated with the science, research, and business of plants and other living organisms. This program of study includes the application of biology and life science to real-world life processes of plants and vegetation, either in laboratories or in the field.

Secondary Courses for High School Credit



Level 1	Principles of Agriculture, Food, and Natural Resources
Level 2	- Landscape Design and Management - Turf Grass Management - Greenhouse Operation and Production - Greenhouse Operation and Production + Agricultural Laboratory and Field Experience - Entrepreneurship I
Level 3	- Viticulture - Horticultural Science - Horticultural Science + Agricultural Laboratory and Field Experience - Floral Design - Floral Design + Agricultural Laboratory and Field Experience
Level 4	- Advanced Plant and Soil Science - Advanced Floral Design - Career and Technical Education Project-Based Capstone - Practicum in Agriculture, Food, and Natural Resources - Practicum in Agriculture, Food, and Natural Resources + Extended Practicum in Agriculture, Food, and Natural Resources - Practicum in Entrepreneurship - Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship - Career Preparation for Programs of Study - Career Preparation for Programs of Study + Extended Career Preparation - Scientific Research and Design

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	- Work in a part-time job at a landscaping company to learn about production and management of plants. - Intern at an agricultural research company, working alongside a biological technician to learn about application of biology to plant production
Expanded Learning Opportunities	- Participate in an FFA career, leadership, and speaking contest like an agriscience fair - Participate in an industry-related competition like an agriscience fair

Aligned Industry-Based Certifications

- BASF Plant Science Certification
- Commercial & Noncommercial Pesticide Applicator
- Horticulture - Landscaping - Job Ready
- Landscape Irrigator
- Principles of Floral Design Certification
- Production Agriculture - Job Ready
- SFMA Turfgrass Science Certification
- Texas Certified Landscape Associate (TCLA)
- Texas Certified Landscape Professional (TCLP)
- Texas Certified Nursery Professional
- Texas Certified Water Smart Professional (TCWSP)
- Texas State Florist's Association Knowledge Based Floral Certification
- Texas State Florist's Association Level I Floral Certification
- Texas State Florist's Association Level II Floral Certification



Successful completion of the Plant Science program of study will fulfill requirements of the Business and Industry endorsement.



Example Postsecondary Opportunities

Apprenticeships

- Horticulturist

Associate Degrees

- Biology/Biological Sciences
- Biological and Physical Sciences

Bachelor's Degrees

- Horticulture
- Plant Pathology/Phytopathology

Master's, Doctoral, and Professional Degrees

- Plant Breeding
- Botany/Plant Biology

Additional Stackable IBCs/License

- Nursery Floral License
- Horticulturist Certification



Example Aligned Occupations

Pesticide Handlers, Sprayers, and Applicators, Vegetation

Median Wage: \$44,570
Annual Openings: 121
10-Year Growth: 17%

Biological Technicians

Median Wage: \$47,968
Annual Openings: 665
10-Year Growth: 14%

Farmers, Ranchers, and Other Agricultural Managers

Median Wage: \$79,064
Annual Openings: 30,363
10-Year Growth: 4%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.

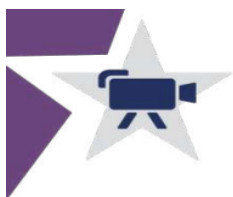


For more information visit:
<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/afnr-plant-science-extended.pdf>

Plant Science

Business and Industry - Plant Science

- Principles of AFNR (Course Weight: G)
- Floral Design (Course Weight: G)
- Advanced Plant and Soil Science (Course Weight: A)
- Practicum in Agriculture, Food, and Natural Resources (Course Weight: G) or Scientific Research and Design (Course Weight: G)



Revised—November 2025

Arts, Audio Visual Technology, and Communications Career Cluster

The Arts, Audio Visual Technology, and Communication (AAVTC) career cluster focuses on designing, producing, exhibiting, performing, writing, and publishing multimedia content requiring creative aptitude, fluency in computer and technology applications, and proficiency in oral and written communication. This career cluster includes occupations ranging from camera operator, audio and video technician, director, and producer to graphic designer and web and digital interface designer.

Statewide Program of Study: Digital Communications

The Digital Communications program of study focuses on occupational and educational opportunities associated with the production of audio and visual media formats for various purposes, such as TV broadcasts, advertising, video production, or motion pictures. The program of study includes operating machines and equipment such as microphones, sound speakers, video screens, projectors, video monitors, sound and mixing boards, and related electronic equipment to record sound and images.



Secondary Courses for High School Credit

- | | |
|----------------|---|
| Level 1 | <ul style="list-style-type: none"> Principles of Arts, Audio/Video Technology, and Communications Digital Communications in the 21st Century Professional Communications Web Communications |
| Level 2 | <ul style="list-style-type: none"> Audio/Video Production I Audio/Video Production I + Audio/Video Production I Lab Digital Audio Technology I Digital Design and Media Production Entrepreneurship I |
| Level 3 | <ul style="list-style-type: none"> Audio/Video Production II Audio/Video Production II + Audio/Video Production II Lab Digital Audio Technology II |
| Level 4 | <ul style="list-style-type: none"> Practicum in Audio/Video Production Practicum in Audio/Video Production + Extended Practicum in Audio/Video Production Practicum in Digital Audio Technology Practicum in Entrepreneurship Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship Career Preparation for Programs of Study Career Preparation for Programs of Study + Extended Career Preparation |

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	- Shadow a sound designer to learn how sound and foley are created for movies or podcasts - Intern with a technical director at a sports team, recording studio, or radio station - Shadow a technician on a live news broadcast, concert, or other event
Expanded Learning Opportunities	- Participate in SkillsUSA or TSA - Participate in Student Television Network - Capture and edit film and audio for a podcast with a local community organization

Aligned Industry-Based Certifications

- | | |
|---|---|
| <ul style="list-style-type: none"> Adobe Certified Professional in Digital Video Using Adobe Premiere Pro Adobe Certified Professional in Graphic Design and Illustration Using Adobe Illustrator Adobe Certified Professional in Print and Digital Media Publication Using Adobe InDesign Adobe Certified Professional in Visual Design Adobe Certified Professional in Visual Design Using Adobe Photoshop Adobe Certified Professional in Visual Effects and Motion Graphics Using Adobe After Effects Audio-Visual Communications - Job Ready Autodesk Certified User Maya Broadcasting and Journalism Certified Audio Engineer for Broadcast | <ul style="list-style-type: none"> Certified CG Operator - Using Character Generators Certified Shading and Camera Operator Certified Technical Director Using Video Production Switchers Content Creation & Marketing Using Adobe Express Digital Video Production Foundations Meta Certified Digital Marketing Associate Online Marketing Certified Associate (OMCA) Toon Boom Associate Certification in Storyboarding Pro Tosa Adobe Illustrator (Advanced or Expert) Tosa Adobe InDesign (Advanced or Expert) Tosa Adobe Photoshop (Advanced or Expert) Tosa Adobe Premiere Pro (Advanced or Expert) |
|---|---|



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



Example Postsecondary Opportunities

Apprenticeships

- Light Technician

Associate Degrees

- Commercial and Advertising Art
- Animation, Interactive Technology, Video Graphics, and Special Effects

Bachelor's Degrees

- Cinematography and Film/Video Production
- Recording Arts Technology

Master's, Doctoral, and Professional Degrees

- Animation, Interactive Technology, Video Graphics, and Special Effects
- Communications Technology

Additional Stackable IBCs/License

- CompTIA Digital Media and Entertainment Professional Certification (DMEP)



Example Aligned Occupations

Camera Operators, Television, Video, and Film

Median Wage: \$62,701
Annual Openings: 169
10-Year Growth: 20%

Audio and Video Technicians

Median Wage: \$48,466
Annual Openings: 525
10-Year Growth: 30%

Producers and Directors

Median Wage: \$61,827
Annual Openings: 808
10-Year Growth: 12%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.



For more information visit:
<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/aavtc-digital-communications-extended.pdf>

Business and Industry - Digital Communications

- Principles of Arts, Audio, Video, Technology (Course Weight: G)
- A/V Production 1 (Course Weight: G)
- A/V Production 2 (Course Weight: G)
- Practicum in A/V Production (Course Weight: G)



Arts, Audio Visual Technology, and Communications Career Cluster

The Arts, Audio Visual Technology, and Communication (AAVTC) career cluster focuses on designing, producing, exhibiting, performing, writing, and publishing multimedia content requiring creative aptitude, fluency in computer and technology applications, and proficiency in oral and written communication. This career cluster includes occupations ranging from camera operator, audio and video technician, director, and producer to graphic designer and web and digital interface designer.

Statewide Program of Study: *Graphic Design and Interactive Media*

The Graphic Design and Interactive Media program of study focuses on occupational and educational opportunities associated with designing or creating graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. The program of study includes designing clothing and accessories and creating special effects, animation, or other visual images using film, video, computers, or other electronic tools and media for use in computer games, movies, music videos, and commercials.



Secondary Courses for High School Credit

Level 1	- Principles of Arts, Audio/Video Technology, and Communications - Video Game Design - Digital Media - Web Communications
Level 2	- Graphic Design and Illustration I - Graphic Design and Illustration I + Graphic Design and Illustration I Lab - Animation I - Animation I + Animation I Lab - Commercial Photography I - Commercial Photography I + Commercial Photography I Lab - Fashion Design I - Fashion Design I + Fashion Design I Lab - Foundations of User Experience - Video Game Programming - Game Programming and Design - Digital Design and Media Production - Entrepreneurship I
Level 3	- Graphic Design and Illustration II - Graphic Design and Illustration II + Graphic Design and Illustration II Lab - Animation II - Animation II + Animation II Lab - Commercial Photography II - Commercial Photography II + Commercial Photography II Lab - Fashion Design II - Fashion Design II + Fashion Design II Lab - Advanced User Experience Design - Advanced Video Game Programming - Digital Art and Animation 3-D Modeling and Animation - Web Game Development
Level 4	- Independent Study in Technology Applications - Independent Study in Evolving/Emerging Technologies - Practicum in Graphic Design and Illustration - Practicum in Graphic Design and Illustration + Extended Practicum in Graphic Design and Illustration - Practicum in Animation - Practicum in Animation + Extended Practicum in Animation - Practicum in Commercial Photography - Practicum in Commercial Photography + Extended Practicum in Commercial Photography - Practicum in Fashion Design - Practicum in Fashion Design + Extended Practicum in Fashion Design - Practicum in Entrepreneurship - Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship - Career Preparation for Programs of Study - Career Preparation for Programs of Study + Extended Career Preparation

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	- Shadow an art director at a branding firm or design agency - Intern in the marketing and communications department of a technology company
Expanded Learning Opportunities	- Participate in SkillsUSA or TSA - Participate in Student Television Network - Join a related co-curricular or extracurricular club such as web development or computer coding

Aligned Industry-Based Certifications

- Adobe Certified Professional in Digital Video Using Adobe Premiere Pro
- Adobe Certified Professional in Graphic Design and Illustration Using Adobe Illustrator
- Adobe Certified Professional in Print and Digital Media Publication Using Adobe InDesign
- Adobe Certified Professional in Visual Design
- Adobe Certified Professional in Visual Design Using Adobe Photoshop
- Adobe Certified Professional in Visual Effects and Motion Graphics Using Adobe After Effects
- Audio-Visual Communications - Job Ready
- Autodesk Certified User 3ds MAX
- Autodesk Certified User Maya
- C# Certified Associate Programmer
- Certified Entry-Level Python Programmer (CEP)
- Certified Professional Photographer
- Certified Professional: Programmer
- Certified User: Artist
- Certified User: Programmer
- Certified User: VR Developer
- Certified Web Animator Associate (CWAA)
- Content Creation & Marketing Using Adobe Express
- Graphic Production Technology - Job Ready
- ITIL 4 FOUNDATION
- Knowledge Pillars: HTML and CSS Coding Specialist (HCSS)
- Knowledge Pillars: WordPress Certified Administrator (WCA)
- Knowledge Pillars: WordPress Certified Developer (WCD)
- Knowledge Pillars: WordPress Certified Editor (WCE)
- Meta Certified Digital Marketing Associate
- Online Marketing Certified Associate (OMCA)
- Oracle Certified Associate Java SE 8 Programmer
- Toon Boom Associate Certification in Harmony Premium
- Toon Boom Associate Certification in Storyboarding Pro
- Tosa Adobe Illustrator (Advanced or Expert)
- Tosa Adobe InDesign (Advanced or Expert)
- Tosa Adobe Photoshop (Advanced or Expert)
- Tosa Adobe Premiere Pro (Advanced or Expert)



Successful completion of the *Graphic Design and Interactive Media* program of study will fulfill requirements of the *Business and Industry* endorsement.



Example Postsecondary Opportunities

Associate Degrees

- Graphic Design
- Digital Arts

Bachelor's Degrees

- Web Page, Digital/Multimedia and Information Resources Design
- Design and Visual Communications

Master's, Doctoral, and Professional Degrees

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

Additional Stackable IBCs/License

- Certified Textile Designer (CTD)



Example Aligned Occupations

Software Developers

Median Wage: \$127,000
Annual Openings: 12,350
10-Year Growth: 36%

Graphic Designers

Median Wage: \$53,100
Annual Openings: 1,758
10-Year Growth: 10%

Art Directors

Median Wage: \$80,944
Annual Openings: 1,025
10-Year Growth: 18%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024



For more information visit:

<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/aavtc-graphic-design-and-interactive-media-extended.pdf>

Business and Industry - Design and Multimedia Arts

- Principles of Arts, A/V Technology, and Communications (Course Weight: G)
- Graphic Design 1 (Course Weight: G)
- Graphic Design 2 (Course Weight: G)
- Practicum in Graphic Design (Course Weight: A)



Education and Training Career Cluster

Revised–November 2025

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. This career cluster includes a diverse spectrum of occupations, ranging from teaching assistant, classroom teacher, to school administrator.

Statewide Program of Study: Teaching and Training

The Teaching and Training program of study focuses on occupational and educational opportunities associated with careers related to teaching, instructing, and creating instructional and enrichment materials. The program of study includes recognizing a variety of student groups and their corresponding needs, identifying processes for developing curriculum and coordinating educational content, and coaching groups and individuals.



Secondary Courses for High School Credit

- | | |
|----------------|--|
| Level 1 | <ul style="list-style-type: none"> Principles of Education and Training Principles of Human Services |
| Level 2 | <ul style="list-style-type: none"> Communication and Technology in Education Human Growth and Development Child Development |
| Level 3 | <ul style="list-style-type: none"> Instructional Practices |
| Level 4 | <ul style="list-style-type: none"> Career and Technical Education Project-Based Capstone Practicum in Education and Training Practicum in Education and Training + Extended Practicum in Education and Training Career Preparation for Programs of Study Career Preparation for Programs of Study + Extended Career Preparation |

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	- Serve as a camp counselor to learn mentoring, facilitation, and lesson planning skills - Volunteer in a tutoring center to learn lesson planning and skills assessment
Expanded Learning Opportunities	- Participate in FCCLA - Participate in TAFE - Participate in Future Coaches of Texas Association

Aligned Industry-Based Certifications

- Educational Aide I



Example Postsecondary Opportunities

Apprenticeships

- Teacher Apprentice

Associate Degrees

- Adult and Continuing Education and Teaching
- Educational/Instructional Technology

Bachelor's Degrees

- Elementary Education and Teaching
- Secondary Education and Teaching

Master's, Doctoral, and Professional Degrees

- Educational Leadership and Administration, General
- Curriculum and Instruction

Additional Stackable IBCs/License

- Generalist, Grades EC-4



Example Aligned Occupations

Teaching Assistants, Except Postsecondary

Median Wage: \$29,358
Annual Openings: 13,725
10-Year Growth: 15%

Secondary School Teachers, Except Special Education and CTE

Median Wage: \$64,009
Annual Openings: 8,338
10-Year Growth: 14%

Education Administrators, Kindergarten through Secondary

Median Wage: \$86,768
Annual Openings: 2,734
10-Year Growth: 14%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.



For more information visit:
<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/et-teaching-and-training-extended.pdf>



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

Teaching and Training

Public Service - Education and Training

- Principles of Education and Training (Course Weight: G)
- Human Growth and Development (Course Weight: G)
- Instructional Practices (Course Weight: G)
- Practicum in Education and Training (Course Weight: G)



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. This career cluster includes occupations ranging from medical assistant, registered nurse, and physical therapist to forensic science technician and athletic trainer.

Statewide Program of Study: **Nursing Science**

The Nursing Science program of study focuses on occupational and educational opportunities associated with patient care. This program of study includes the practice of caring for patients, performing routine procedures such as monitoring vital signs, developing, and implementing care plans, maintaining medical records, and managing disease or pain.



Secondary Courses for High School Credit

Level 1	- Principles of Health Science - Principles of Nursing Science
Level 2	- Science of Nursing - Medical Terminology
Level 3	- Health Science Theory - Health Science Theory + Health Science Clinical - Anatomy and Physiology - Medical Microbiology - Leadership and Management in Nursing - Clinical Ethics
Level 4	- Pathophysiology - Pharmacology - Practicum in Nursing - Practicum in Health Science - Practicum in Health Science + Extended Practicum in Health Science - Career Preparation for Programs of Study - Career Preparation for Programs of Study + Extended Career Preparation

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	- Intern with a medical assistant at a community clinic, hospital, or assisted living facility - Conduct informational interviews with nurses in different departments and healthcare settings
Expanded Learning Opportunities	- Volunteer at community clinics, hospitals, assisted living and long-term care facilities - Participate in HOSA or SkillsUSA

Aligned Industry-Based Certifications

- Certified Nurse Aide (CNA)
- Certified Personal Care Assistant
- Licensed Vocational Nurse
- Medical Assistant
- Nursing Assistant Certification (NAC)
- Patient Care Technician
- Phlebotomy Technician
- Registered Nurse



Example Postsecondary Opportunities

Apprenticeships

- Registered Nurse Resident

Associate Degrees

- Medical Assisting
- Vocational Nursing

Bachelor's Degrees

- Registered Nursing
- Nursing Administration

Master's, Doctoral, and Professional Degrees

- Nursing Administration
- Nursing Science

Additional Stackable IBCs/License

- Certified Emergency Nurse



Example Aligned Occupations

Nursing Assistants

Median Wage: \$35,110
Annual Openings: 13,501
10-Year Growth: 15%

Licensed Practical and Licensed Vocational Nurses

Median Wage: \$57,007
Annual Openings: 5,831
10-Year Growth: 17%

Registered Nurses

Median Wage: \$85,108
Annual Openings: 16,904
10-Year Growth: 17%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.



For more information visit:
<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/hs-nursing-science-extended.pdf>



Successful completion of the Nursing Science program of study will fulfill requirements of STEM endorsement if the math and science requirements are met or the Public Services endorsement.

Public Service – Nursing Science

- Medical Terminology (Course Weight: G)
- Health Science Theory (Course Weight: G)
- Practicum in Health Science (Course Weight: A)



Hospitality and Tourism Career Cluster

The Hospitality and Tourism career cluster focuses on the management, marketing, and operations of restaurants, lodging, attractions, recreation events, and travel-related services. This career cluster includes occupations ranging from reservation and transportation ticket agent to event planner and general manager.

Statewide Program of Study: Culinary Arts

The Culinary Arts program of study focuses on occupational and educational opportunities associated with the planning, directing, or coordinating activities of a food and beverage organization or department. This program of study includes opportunities involved in directing and participating in the preparation of food.



Secondary Courses for High School Credit

Level 1	- Principles of Hospitality and Tourism - Introduction to Culinary Arts
Level 2	- Culinary Arts - Entrepreneurship I - Food Technology and Safety - Foundations of Restaurant Management
Level 3	- Advanced Culinary Arts - Event and Meeting Planning - Tourism Marketing Concepts and Applications - Food Processing - Food Processing + Agricultural Laboratory and Field Experience
Level 4	- Food Science - Practicum in Culinary Arts - Practicum in Culinary Arts + Extended Practicum in Culinary Arts - Practicum in Event and Meeting Planning - Practicum in Event and Meeting Planning + Extended Practicum in Hospitality Services - Practicum in Hospitality Services - Practicum in Hospitality Services + Extended Practicum in Hospitality Services - Practicum in Entrepreneurship - Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship - Career Preparation for Programs of Study - Career Preparation for Programs of Study + Extended Career Preparation

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	- Shadow a director of a non-profit that produces and delivers food for communities in need - Intern at a catering company and learn about food production for large-scale events - Work part-time in a restaurant as a line cook or chef
Expanded Learning Opportunities	- Participate in FCCLA - Participate in SkillsUSA - Participate in Texas Restaurant and Foodservice Management Organization

Aligned Industry-Based Certifications

- Certified Culinarian (CC)
- Certified Fundamentals Cook
- Certified Fundamentals Pastry Cook
- Certified Pastry Culinarian (CPC)
- Certified Restaurant Professional
- Commercial Foods
- Culinary Meat Selection & Cookery Certification
- Food Protection Manager Certification
- Food Safety & Science Certification
- Hospitality and Tourism Specialist
- ManageFirst Professional
- Meat Evaluation Certification
- Pre-Professional Certification in Culinary Arts
- Pre-Professional Certification in Food Science Fundamentals
- ServSafe Manager



Example Postsecondary Opportunities

Associate Degrees

- Culinary Arts
- Baking and Pastry Arts

Bachelor's Degrees

- Hotel/Motel Administration/Management
- Culinary Science

Master's, Doctoral, and Professional Degrees

- Organizational Leadership
- Foodservice Systems Administration/Management

Additional Stackable IBCs/License

- Food Manager License



Example Aligned Occupations

Food Service Managers

Median Wage: \$61,748
Annual Openings: 2,941
10-Year Growth: 15%

Chefs and Head Cooks

Median Wage: \$48,557
Annual Openings: 2,699
10-Year Growth: 37%

General and Operations Managers

Median Wage: \$96,046
Annual Openings: 44,419
10-Year Growth: 23%

Culinary Arts



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

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.



For more information visit:
<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/ht-culinary-arts-extended.pdf>

Business and Industry - Culinary Arts

- Principles of Hospitality and Tourism (Course Weight: G)
- Introduction to Culinary Arts (Course Weight: G)
- Culinary Arts 1 (Course Weight: G)
- Culinary Arts 2 (Course Weight: A)



NTCA/INDUSTRIAL TECHNOLOGY

The **Northeast Texas Career Alliance (NTCA)** is a collaborative pilot program uniting five school districts, Northeast Texas Community College (NTCC), and local industry partners to offer specialized career pathways for students. **This innovative program gives access to high-demand fields designed to meet the evolving needs of Northeast Texas industries.**

By combining classroom learning, hands-on training, soft-skills development, and work-based learning with local employers, NTCA ensures that graduates have both technical knowledge and real-world experience to support the economic growth of our region. Whether students plan to enter the workforce directly after high school with an industry-recognized certificate or continue their education toward an associate or bachelor's degree, NTCA provides a strong foundation for future success.

NTCA is a collaboration between **Chapel Hill ISD, Daingerfield-Lone Star ISD, Harts Bluff ISD, Hughes Springs ISD, and Pewitt CISD, Region 8 Education Service Center, Northeast Texas Community College, and Workforce Solutions Northeast Texas.**

This cooperative initiative showcases the power of regional collaboration, bringing together school districts, higher education institutions, and workforce leaders to create transformative opportunities that prepare students for future success while fueling the economic growth of Northeast Texas.

NTCA programs offer students in participating districts the opportunity to earn Level 1 certificates and microcredentials while experiencing hands-on work-based learning through partnerships with local businesses and industries. By combining classroom learning with real-world industry exposure, students graduate not only with credentials but also with the confidence and connections needed to immediately enter the workforce or continue their education.

"We are incredibly proud of how this innovative programming could transform career preparation for students across Northeast Texas. When small, rural schools partner with industry, they have the opportunity to create amazing opportunities for their students that would be much more difficult to do alone," said Heather McGregor, Deputy Executive Director of Region 8 Education Service Center. "With the support and efforts of Workforce Solutions Northeast Texas, Northeast Texas Community College, and industry partners, we're ensuring that our students have the skills and experiences they need to succeed in high-demand, livable-wage careers that support our local economy."

The NTCA currently offers programs in:

- **Programming & Software Development** – Preparing students for careers in software engineering, IT, and coding through hands-on coding labs and real-world technology projects.

- **Industrial Maintenance: Technician** – Providing training in electrical, mechanical, and manufacturing systems, preparing students for in-demand roles in advanced manufacturing and skilled trades.
- **Industrial Maintenance: Air Conditioning Technician** – Providing training in HVAC electrical, mechanical, and manufacturing systems, preparing students for in-demand roles in advanced manufacturing and skilled trades.
- **Business Management: Logistics** – Equipping students with the organizational, management, and logistics skills essential for careers in supply chain management, project management, and business operations.

Each pathway provides a clear bridge from high school to a local career, with industry partners offering mentorship, internships, and exposure to the latest technologies and workplace expectations. Students leave with not only credentials but with the experiences and professional networks that will help them thrive.

This pilot program is not only building a stronger workforce pipeline, it's also a model for innovative, collaborative programming that can be replicated across the state. By aligning educational opportunities directly with regional workforce needs, NTCA and its partners are ensuring that students are future-ready and that local industries have access to the skilled talent they need to thrive.

See following pages for programs.

PROGRAMMING AND SOFTWARE DEVELOPMENT	BUSINESS MANAGEMENT: LOGISTICS	INDUSTRIAL MAINTENANCE: TECHNICIAN	INDUSTRIAL MAINTENANCE: AIR CONDITIONING TECHNICIAN
9th - Fundamentals of Computer Science 05580140 (1 credit) - WBL Opportunities: Industry tours and classroom guest speakers	9th - Dual Credit Foundations of Business Communication and Technologies 1501400 (1 credit) - BCIS 1501 - Business Principles (5 hrs) - BCIS 1505 - Business Computer Applications (5 hrs) - WBL Opportunities: Industry tours & guest speakers	9th - Dual Credit Principles of Manufacturing 15052200 (1 credit) - MFGT 1502 - Introduction to Automated Manufacturing (5 hrs) - BMGT 1551 - Production and Operations Management (5 hrs) - WBL Opportunities: Industry tours & classroom guest speakers	9th - Dual Credit Principles of Manufacturing 15052200 (1 credit) - MFGT 1502 - Introduction to Automated Manufacturing (5 hrs) - BMGT 1551 - Production and Operations Management (5 hrs) - WBL Opportunities: Industry tours & classroom guest speakers
10th - Dual Credit Computer Science I 05580200 (1 credit; LOTE credit) - BCIS 1505 - Business Computer Applications (5 hrs) - COSC 1501 - Introduction to Computing (5 hrs) - WBL Opportunities: Industry tours and job shadowing	10th - Dual Credit Business Communication and Technologies 1501500 (1 credit) - BUSI 1507 - Personal Finance (5 hrs) - BMGT 1541 - Business Ethics (5 hrs) - WBL Opportunities: Industry tours & job shadowing	10th - Dual Credit Electrical Technology I 15005600 (1 credit) - ELPT 1511 - Basic Electrical Theory (5 hrs) - ELPT 1541 - Motor Control (5 hrs) - WBL Opportunities: Industry tours & job shadowing	10th - Dual Credit HVAC I 15005800 (1 credit) - ELPT 1511 - Basic Electrical Theory (5 hrs) - HART 1505 - Air Conditioning Control Principles (5 hrs) - WBL Opportunities: Industry tours & job shadowing
11th - Dual Credit Computer Science II 05580300 (1 credit; LOTE credit) - COSC 1556 - Programming Fundamentals I (5 hrs) - COSC 1557 - Programming Fundamentals 2 (5 hrs) - WBL Opportunities: Internships with IT related business & industry	11th - Dual Credit Business Management 15012100 (1 credit) - BUSI 2509 - Business Leadership (5 hrs) - UMGT 1519 - Intro to Business Logistics (5 hrs) - WBL Opportunity: Job shadowing	11th - Dual Credit Practicum in Manufacturing 15055000 (2 credits) - INMT 1505 - Introduction to Industrial Maintenance (5 hrs) - HYDR 1545 - Hydraulics and Pneumatics (5 hrs) - CBFM 2517 - Mechanical Maintenance (5 hrs) - ELPT 2519 - Programmable Logic Controller I (5 hrs) - WBL Opportunity: Internship	11th - Dual Credit Practicum in Manufacturing 15055000 (2 credits) - INMT 1505 - Introduction to Industrial Maintenance (5 hrs) - HART 1510 - HVAC Shop Practices and Tools (5 hrs) - HART 1556 - EPA Recovery Certification Preparation (5 hrs) - HART 1541 - Residential Air Conditioning (5 hrs) - WBL Opportunity: Internship
12th - Dual Credit Practicum in Information Technology 15028000 (2 credits) - COSC 2556 - Programming Fundamentals 3 (5 hrs) - COSC 1515 - Fundamentals of Programming in Java (5 hrs) - WBL Opportunities: Internships with IT related business & industry	12th - Practicum in Business Management 15012200 (2 credits) - UMGT 1525 - Warehouse and Distribution Center Management (5 hrs) - UMGT 1521 - Intro to Materials Handling (5 hrs) - WBL Requirement: Internship	12th - Dual Credit Practicum in Manufacturing 15055010 (2 credits) - ELPT 2555 - Programmable Logic Controller II (5 hrs) - INTC 1557 - AC/DC Motor Control (5 hrs) - WBL Requirement: Spring semester internship	12th - Dual Credit Practicum in Manufacturing 15055010 (2 credits) - CBFM 2517 - Mechanical Maintenance (5 hrs) - ELPT 1541 - Motor Control (5 hrs) - WBL Requirement: Spring semester internship
Credentials Available: Computer Programming Level I Certificate	Credentials Available: - Business Management OSA - Business Administration - Logistics Management Certificate	Credentials Available: - Certified Production Technician (CPT) - Industrial Electrical Technician OSA - Industrial Technician Level I Certificate	Credentials Available: - Certified Production Technician (CPT) - EPA Recovery Certification - HVAC Technician Assistant (OSA) - Air Conditioning Technician Level I Certificate



Information Technology Career Cluster

The Information Technology (IT) career cluster focuses on the design, development, support, and management of hardware, software, multimedia, and systems integration services. This career cluster includes occupations ranging from Software Developer and Programmer to Cybersecurity Specialists and Network Analysts.

Statewide Program of Study: Programming and Software Development

The Programming and Software Development program of study focuses on occupational and educational opportunities associated with researching, designing, developing, testing, and 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 includes creating, modifying, and testing the codes, forms, and script that allow computer applications to run.



Secondary Courses for High School Credit

Level 1	- Principles of Information Technology - Fundamentals of Computer Science
Level 2	- Computer Science I - Game Programming and Design - Advanced Placement (AP) Computer Science Principles - Entrepreneurship I
Level 3	- Introduction to C# Programming Applications - Computer Science II - Advanced Cloud Computing - Discrete Mathematics for Computer Science - Mobile Application Development - Advanced Placement (AP) Computer Science A - International Baccalaureate (IB) Computer Science Standard Level - International Baccalaureate (IB) Computer Science Higher Level
Level 4	- Computer Science III - Independent Study in Technology Applications - Independent Study in Evolving/Emerging Technologies - Career and Technical Education Project-Based Capstone - Practicum in Audio/Video Production - Practicum in Audio/Video Production + Extended Practicum in Audio/Video Production - Practicum in Information Technology - Practicum in Information Technology + Extended Practicum in Information Technology - Practicum in Engineering - Practicum in Engineering + Extended Practicum in Engineering - Practicum in Entrepreneurship - Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship - Career Preparation for Programs of Study - Career Preparation for Programs of Study + Extended Career Preparation - Scientific Research and Design

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	- Intern at a local IT company to develop skills in programming and coding - Shadow a software developer to learn how they create and improve software to support efficient processes at their company
Expanded Learning Opportunities	- Program and create a game - Participate in SkillsUSA or TSA

Aligned Industry-Based Certifications

- Apple App Development with Swift Associate
- AWS Certified Cloud Practitioner
- AWS Certified DevOps Engineer - Professional
- AWS Certified Solutions Architect - Associate
- AWS Certified SysOps Administrator - Associate
- C++ Certified Associate Programmer
- C++ Certified Entry-Level Programmer
- Certified Associate Data Analyst with Python
- Certified Associate JavaScript Programmer
- Certified Associate Python Programmer
- Certified Associate Tester with Python
- Certified Entry-Level Data Analyst with Python
- Certified Entry-Level JavaScript Programmer
- Certified Entry-Level Python Programmer (PCEP)
- Certified Entry-Level Tester with Python
- Certified Entry-Level Web Developer
- Certified Professional: Programmer
- Certified User: Programmer
- CLA: C Programming Language Certified Associate
- CLE: C Certified Entry-Level Programmer
- CompTIA A+ Certification
- CompTIA Linux+
- CompTIA Server+
- CompTIA Tech+
- CPE: C++ Certified Entry-Level Programmer
- Information Technology Specialist Cloud Computing
- Information Technology Specialist Computational Thinking
- Information Technology Specialist Python
- Information Technology Specialist Software Development
- Information Technology Specialist: Java
- Information Technology Specialist: JavaScript
- Java SE Java Certified Foundations Associate
- Knowledge Pillars: AI Business Implementation Specialist (AIBIP)
- Knowledge Pillars: C# Coding Specialist (CSCS)
- Knowledge Pillars: Coding in AI Specialist (CIAIS)
- Knowledge Pillars: JavaScript Coding Specialist (JSCS)
- Knowledge Pillars: Python Coding Apprentice (PCA)
- Knowledge Pillars: Python Coding Specialist (PCS)
- Microsoft Certified: Azure Data Fundamentals
- Microsoft Certified: Azure Fundamentals
- Microsoft Certified: Azure Solutions Architect Expert
- Oracle Certified Associate Java SE 8 Programmer
- Oracle Database SQL Certified Associate
- Tosa JavaScript (Advanced or Expert)
- Tosa Python (Advanced or Expert)



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



Example Postsecondary Opportunities

Apprenticeships

- Computer Programmer Apprenticeship

Associate Degrees

- Computer Programming
- Web Page, Digital/Multimedia and Information Resources Design

Bachelor's Degrees

- Data Science
- Computer Engineering

Master's, Doctoral, and Professional Degrees

- Management Science
- Computer Software Engineering

Additional Stackable IBCs/License

- AWS Certified Developer Associate



Example Aligned Occupations

Computer User Support Specialists

Median Wage: \$51,823
Annual Openings: 6,387
10-Year Growth: 21%

Software Developers

Median Wage: \$127,000
Annual Openings: 12,350
10-Year Growth: 36%

Computer Programmers

Median Wage: \$99,177
Annual Openings: 657
10-Year Growth: 4%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.



For more information visit:

<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/it-programming-and-software-development-extendedppts.pdf>

Business and Industry – Programming and Software Development

- Fundamentals of Computer Science (Course Weight: G)
- Computer Science I (Course Weight: G)
- Computer Science II (Course Weight: G)
- Practicum in Informational Technology (Course Weight: A)



Manufacturing Career Cluster

The Manufacturing career cluster focuses on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and process engineering. This career cluster includes occupations ranging from welder and machinist to industrial engineering technician and semi-conductor processing technician.

Statewide Program of Study: Industrial Maintenance

The Industrial Maintenance program of study focuses on occupational and educational opportunities associated with maintaining and repairing manufacturing equipment and facilities. This program of study includes exploration of facility systems including electrical, welding, hydraulics, plumbing, heating, and air conditioning.



Secondary Courses for High School Credit

Level 1	- Principles of Manufacturing - Introduction to Welding - Introduction to Small Engine Technology
Level 2	- Construction Technology I - Electrical Technology I - Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology I - Industrial Maintenance (TBD)
Level 3	- Basic Fluid Power - Mechanical Maintenance (TBD)
Level 4	- Practicum in Manufacturing - Practicum in Manufacturing + Extended Practicum in Manufacturing - Career Preparation for Programs of Study - Career Preparation for Programs of Study + Extended Career Preparation

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities

- Shadow an equipment inspector at a power plant
- Intern at a local manufacturing company that makes hydraulics or automobiles

Expanded Learning Opportunities

- Tour a manufacturing facility
- Participate in SkillsUSA

Aligned Industry-Based Certifications

- Basic Hydraulic Systems
- C-200 Certified Industry 4.0 Automation Systems Specialist I - 201 Electrical Systems 1
- C-200 Certified Industry 4.0 Automation Systems Specialist I - 202 Electric Motor Control Systems 1
- C-200 Certified Industry 4.0 Automation Systems Specialist I - 204 Motor Control Troubleshooting 1
- Carpentry Level I
- Certified Fluid Power Level 1
- Certified Fluid Power Level 2
- Certified Fluid Power Level 3
- Certified Logistics Technician (CLT)
- Certified Production Technician (CPT) 4.0
- Certified Technician-Supply Chain Automation (CT-SCA)
- Construction Technology Certification Level I
- Core
- Electrical Level I
- Electrical Level II
- Electronic System Technician Level I
- Electronic System Technician Level II
- Employment Ready Certification - Air Conditioning
- Employment Ready Certification - Electrical
- Employment Ready Certification - Gas Heat
- Employment Ready Certification - Heat Pumps
- Employment Ready Certification - Light Commercial Air Conditioning
- Fundamentals of Fluid Power - Hydraulics/Pneumatics
- HBI Pre-Apprenticeship Certificate Training (PACT), Core
- HBI Pre-Apprenticeship Certificate Training (PACT), Heating, Ventilation and Air Conditioning
- HVACR Level I
- Industrial Maintenance Mechanic Level I
- Industrial Maintenance Support Mechanic
- Industrial Millwright
- Industrial Technology Maintenance (ITM) - Basic Mechanical Systems
- Industrial Technology Maintenance (ITM) - Basic Pneumatic Systems
- Industrial Technology Maintenance (ITM) - Electrical Systems
- Industrial Technology Maintenance (ITM) - Maintenance Operations
- Licensed Service Technician
- Millwright Level I
- Millwright Level II
- Sheet Metal Level I



Successful completion of the Industrial Maintenance program of study will fulfill requirements of the Business and Industry endorsement.



Example Postsecondary Opportunities

Apprenticeships

- Millwright Apprentice

Associate Degrees

- Industrial Technology
- Instrumentation Technology
- Industrial Mechanics and Maintenance Technology
- Building/Property Maintenance

Bachelor's Degrees

- Engineering/Industrial Management
- Industrial Engineering
- Industrial Technology
- Industrial Mechanics and Maintenance Technology

Master's, Doctoral, and Professional Degrees

- Engineering/Industrial Management
- Industrial Engineering
- Materials Engineering
- Manufacturing Engineering



Example Aligned Occupations

Electrician's Helpers

Median Wage: \$42,692
Annual Openings: 1,299
10-Year Growth: 20%

Millwrights

Median Wage: \$58,305
Annual Openings: 311
10-Year Growth: 17%

Industrial Engineers

Median Wage: \$102,022
Annual Openings: 1,996
10-Year Growth: 26%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.



For more information visit:

<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/m-industrial-maintenance-extendedppts.pdf>

Business and Industry – Industrial Maintenance - Technician

- Principles of Manufacturing (Course Weight: G)
- Electrical Technology (Course Weight: G)
- Practicum in Manufacturing I (Course Weight: G)
- Practicum in Manufacturing II (Course Weight: A)



Manufacturing Career Cluster

The Manufacturing career cluster focuses on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance, and process engineering. This career cluster includes occupations ranging from welder and machinist to industrial engineering technician and semi-conductor processing technician.

Statewide Program of Study: Industrial Maintenance

The Industrial Maintenance program of study focuses on occupational and educational opportunities associated with maintaining and repairing manufacturing equipment and facilities. This program of study includes exploration of facility systems including electrical, welding, hydraulics, plumbing, heating, and air conditioning.



Secondary Courses for High School Credit

Level 1	- Principles of Manufacturing - Introduction to Welding - Introduction to Small Engine Technology
Level 2	- Construction Technology I - Electrical Technology I - Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology I - Industrial Maintenance (TBD)
Level 3	- Basic Fluid Power - Mechanical Maintenance (TBD)
Level 4	- Practicum in Manufacturing - Practicum in Manufacturing + Extended Practicum in Manufacturing - Career Preparation for Programs of Study - Career Preparation for Programs of Study + Extended Career Preparation

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	- Shadow an equipment inspector at a power plant - Intern at a local manufacturing company that makes hydraulics or automobiles
Expanded Learning Opportunities	- Tour a manufacturing facility - Participate in SkillsUSA

Aligned Industry-Based Certifications

- Basic Hydraulic Systems
- C-200 Certified Industry 4.0 Automation Systems Specialist I - 201 Electrical Systems 1
- C-200 Certified Industry 4.0 Automation Systems Specialist I - 202 Electric Motor Control Systems 1
- C-200 Certified Industry 4.0 Automation Systems Specialist I - 204 Motor Control Troubleshooting 1
- Carpentry Level I
- Certified Fluid Power Level 1
- Certified Fluid Power Level 2
- Certified Fluid Power Level 3
- Certified Logistics Technician (CLT)
- Certified Production Technician (CPT) 4.0
- Certified Technician-Supply Chain Automation (CT-SCA)
- Construction Technology Certification Level I
- Core
- Electrical Level I
- Electrical Level II
- Electronic System Technician Level I
- Electronic System Technician Level II
- Employment Ready Certification - Air Conditioning
- Employment Ready Certification - Electrical
- Employment Ready Certification - Gas Heat
- Employment Ready Certification - Heat Pumps
- Employment Ready Certification - Light Commercial Air Conditioning
- Fundamentals of Fluid Power - Hydraulics/Pneumatics
- HBI Pre-Apprenticeship Certificate Training (PACT), Core
- HBI Pre-Apprenticeship Certificate Training (PACT), Heating, Ventilation and Air Conditioning
- HVACR Level I
- Industrial Maintenance Mechanic Level I
- Industrial Maintenance Support Mechanic
- Industrial Millwright
- Industrial Technology Maintenance (ITM) - Basic Mechanical Systems
- Industrial Technology Maintenance (ITM) - Basic Pneumatic Systems
- Industrial Technology Maintenance (ITM) - Electrical Systems
- Industrial Technology Maintenance (ITM) - Maintenance Operations
- Licensed Service Technician
- Millwright Level I
- Millwright Level II
- Sheet Metal Level I



Successful completion of the Industrial Maintenance program of study will fulfill requirements of the Business and Industry endorsement.



Example Postsecondary Opportunities

Apprenticeships

- Millwright Apprentice



Associate Degrees

- Industrial Technology
- Instrumentation Technology
- Industrial Mechanics and Maintenance Technology
- Building/Property Maintenance

Bachelor's Degrees

- Engineering/Industrial Management
- Industrial Engineering
- Industrial Technology
- Industrial Mechanics and Maintenance Technology

Master's, Doctoral, and Professional Degrees

- Engineering/Industrial Management
- Industrial Engineering
- Materials Engineering
- Manufacturing Engineering



Example Aligned Occupations

Electrician's Helpers

Median Wage: \$42,692
Annual Openings: 1,299
10-Year Growth: 20%

Millwrights

Median Wage: \$58,305
Annual Openings: 311
10-Year Growth: 17%

Industrial Engineers

Median Wage: \$102,022
Annual Openings: 1,996
10-Year Growth: 26%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.



For more information visit:

<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/m-industrial-maintenance-extendedpctx.pdf>

Business and Industry – Industrial Maintenance - Air Conditioning Tech

- Principles of Manufacturing (Course Weight: G)
- HVAC I (Course Weight: G)
- Practicum in Manufacturing I (Course Weight: G)
- Practicum in Manufacturing II (Course Weight: A)



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. This career cluster includes occupations ranging from business owner and entrepreneur to accountant, retail manager, and market analyst.

Statewide Program of Study: *Business Management*

The Business Management program of study focuses on occupational and educational opportunities associated with planning, directing, and coordinating the administrative services and operations of an organization. It includes formulating policies, managing daily operations, and allocating the use of materials and human resources. This program of study also introduces students to mathematical modeling tools and organizational evaluation methods.



Secondary Courses for High School Credit

- | | |
|----------------|--|
| Level 1 | <ul style="list-style-type: none"> Principles of Business, Marketing, and Finance Foundations of Business Communication and Technologies Foundations of Business Communication and Technologies + Business Lab |
| Level 2 | <ul style="list-style-type: none"> Virtual Business Business Law Business Communication and Technologies Business Communication and Technologies + Business Lab Entrepreneurship I |
| Level 3 | <ul style="list-style-type: none"> Business Management Global Business Human Resources Management |
| Level 4 | <ul style="list-style-type: none"> Statistics and Business Decision Making Practicum in Business Management Practicum in Business Management + Extended Practicum in Business Management Practicum in Entrepreneurship Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship Career Preparation for Programs of Study Career Preparation for Programs of Study + Extended Career Preparation |

Work-Based Learning and Expanded Learning Opportunities

Work-Based Learning Activities	- Intern at local business in the HR department - Shadow the COO of a local business or chamber of commerce
Expanded Learning Opportunities	- Participate in BPA, DECA, FBLA, Young Billionaires Club, or related UIL events - Explore student membership in related professional organizations

Aligned Industry-Based Certifications

- | | |
|---|---|
| <ul style="list-style-type: none"> Associate Professional in Human Resources (aPHR) Business of Retail: Certified Specialist Certified Associate in Project Management (CAPM) Content Creation & Marketing Using Adobe Express Customer Service and Sales: Certified Specialist Entrepreneurship and Small Business General Management Knowledge Pillars: AI Industry Acceleration Specialist (AIIAS) Meta Certified Digital Marketing Associate Microsoft Certified: Dynamics 365 Fundamentals (ERP) Microsoft Office Specialist 2016 Master/MOS: Expert (365 Apps) | <ul style="list-style-type: none"> Microsoft Office Specialist: Microsoft Access Expert (2019+) Microsoft Office Specialist: Microsoft Excel Expert (2019+ or 365 Apps) Microsoft Office Specialist: Microsoft Word Expert (2019+ or 365 Apps) Online Marketing Certified Associate (OMCA) Project Management Institute (PMI) Project Management Ready Tosa Desktop Certified User for Google Workspace (Professional level) Tosa Desktop Certified User for Microsoft Office (Professional level) Tosa Google Sheets (Advanced or Expert) Tosa Microsoft Excel (Advanced or Expert) |
|---|---|



Successful completion of the Business Management program of study will fulfill requirements of the Business and Industry endorsement.



Example Postsecondary Opportunities

Associate Degrees

- Business Administration and Management
- Human Resources Management

Bachelor's Degrees

- Business Analytics
- Accounting and Business

Master's, Doctoral, and Professional Degrees

- Business Administration and Management
- Organizational Leadership

Additional Stackable IBCs/License

- Professional Certificate in Team Leadership
- Property Tax Professionals



Example Aligned Occupations

First-Line Supervisors of Office and Administrative Support Workers

Median Wage: \$61,735
Annual Openings: 18,874
10-Year Growth: 9%

Human Resources Specialists

Median Wage: \$62,049
Annual Openings: 8,652
10-Year Growth: 23%

General and Operations Managers

Median Wage: \$96,046
Annual Openings: 44,419
10-Year Growth: 23%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.



For more information visit:

<https://tea.texas.gov/academics/college-career-and-military-prep/career-and-technical-education/bmf-business-management-extended.pdf>

Business and Industry – Business Management

- Foundations of Business Communication and Technologies (Course Weight: G)
- Business Communication and Technology (Course Weight: G)
- Business Management I (Course Weight: G)
- Practicum in Business Management (Course Weight: A)



MISCELLANEOUS/ ELECTIVE COURSES

Yearbook 1

Yearbook 2

Yearbook 3

Yearbook 4

Students enrolled in these courses are expected to plan, draft, and complete written and visual communications on a regular basis, carefully examining their copy for clarity, engaging language, and the correct use of the conventions and mechanics of written English. Students are expected to become analytical consumers of media and technology to enhance their communication skills. In addition, students will learn journalistic ethics and standards. Writing, technology, and visual and electronic media are used as tools for learning as students create, clarify, critique, write, and produce effective communications. Students will refine and enhance their journalistic skills, research self-selected topics, and plan, organize, and prepare projects. Students will create a high-quality yearbook, which reflects the spirit and the highlights of the school year while learning the numerous phases and techniques behind its development.

Grade: 9-12

Prerequisite: Application

Credit: 1

Course Weight: G

College Academy

This course prepares students in grades 9–10 for college readiness and academic success through the AVID (Advancement Via Individual Determination) framework. Students develop critical thinking, organization, note-taking, and study skills while exploring college and career pathways. Students must meet all admission requirements to Northeast Texas Community College. Cost of books and fees must be paid to NTCC. Students will have the opportunity to earn college credit in EDUC 1300 (fall)/SPCH 1315 (spring) at NTCC. Students wishing to receive accommodations in a dual credit class must contact NTCC.

Grade: 9-10

Prerequisite: None

Credit: 1

Course Weight: G

Psychology DC

This dual credit course introduces students to the scientific study of behavior and mental processes. Topics include human development, cognition, personality, psychological disorders, and research methods. Students gain an understanding of how psychology applies to everyday life while earning college credit. Students must meet all admission requirements to Northeast Texas Community College. Cost of books and fees must be paid to NTCC. Students will have the opportunity to earn college credit in PSYC 2301 at NTCC. Students wishing to receive accommodations in a dual credit class must contact NTCC.

Grade: 10-12

Prerequisite: None

Credit: .5

Course Weight: G

Sociology DC

This dual credit course examines human social behavior, relationships, and institutions. Students explore culture, socialization, social inequality, and group dynamics. The course encourages critical thinking about societal issues and helps students understand the structure and function of society. Students must meet all admission requirements to Northeast Texas Community College. Cost of books and fees must be paid to NTCC. Students will have the opportunity to earn college credit in SOCI 1301 at NTCC. Students wishing to receive accommodations in a dual credit class must contact NTCC.

Grade: 10-12

Prerequisite: None

Credit: .5

Course Weight: G

Tx Government DC

This dual credit course focuses on the principles, structure, and functions of Texas state government. Students study the Texas Constitution, political processes, public policy, and civic participation. Emphasis is placed on understanding the role of government and the responsibilities of informed citizens. Students must meet all admission requirements to Northeast Texas Community College. Cost of books and fees must be paid to NTCC. Students will have the opportunity to earn college credit in GOVT 2306 at NTCC. Students wishing to receive accommodations in a dual credit class must contact NTCC.

Grade: 10-12

Prerequisite: None

Credit: .5

Course Weight: G

Art Appreciation DC

This course introduces students to the visual arts through the study of artistic styles, movements, and cultural influences. Students learn to analyze and interpret works of art while developing an appreciation for creativity and artistic expression across time and cultures. Students must meet all admission requirements to Northeast Texas Community College. Cost of books and fees must be paid to NTCC. Students will have the opportunity to earn college credit in ARTS 1301 at NTCC. Students wishing to receive accommodations in a dual credit class must contact NTCC.

Grade: 10-12

Prerequisite: None

Credit: .5

Course Weight: A

Humanities DC

This dual credit course explores the connections between literature, philosophy, history, and the arts. Students examine major cultural developments and ideas that have shaped human experience. The course promotes critical thinking and an understanding of diverse perspectives. Students must meet all admission requirements to Northeast Texas Community College. Cost of books and fees must be paid to NTCC. Students will have the opportunity to earn college credit in PHIL 1301/PHIL 2306 at NTCC. Students wishing to receive accommodations in a dual credit class must contact NTCC.

Grade: 10-12

Prerequisite: None

Credit: 1

Course Weight: G

Music Appreciation DC

This course provides an overview of music from various historical periods and cultures. Students learn to listen actively, analyze musical elements, and understand the cultural significance of music. No prior musical experience is required. Students must meet all admission requirements to Northeast Texas Community College. Cost of books and fees must be paid to NTCC. Students will have the opportunity to earn college credit in MUSI 1306 at NTCC. Students wishing to receive accommodations in a dual credit class must contact NTCC.

Grade: 10-12

Prerequisite: None

Credit: .5

Course Weight: G

Theatre DC

This dual credit course introduces students to the fundamentals of theatre, including performance, production, and dramatic literature. Students explore acting techniques, stagecraft, and the history of theatre while developing confidence, creativity, and communication skills. Students must meet all admission requirements to Northeast Texas Community College. Cost of books and fees must be paid to NTCC. Students will have the opportunity to earn college credit in DRAM 1310 at NTCC. Students wishing to receive accommodations in a dual credit class must contact NTCC.

Grade: 10-12

Prerequisite: None

Credit: .5

Course Weight: G

Office Aide and Library Aide

In this course, students will be assigned to the front office, the library, or the counselor's office during the class time. Students will assist office personnel with the duties necessary to maintain an organized and efficient workplace.

Grade: 12

Credit: 1 Local

Course Weight: Unweighted

College/Career Preparation

The intention of this course is to help students increase college entrance exam scores. Students will learn different methods from a variety of study tools, including tests, drills, or games. This course will also offer test taking strategies and propose a personalized study plan. The program will cover all aspects of both tests including vocabulary, mathematics, science, critical reading, and writing skills to enhance the student's College Readiness including preparing for the ACT/SAT/TSIA.

Grade: 9-12

Prerequisite: None

Credit: 1

Course Weight: G

Early Release

A graduating student can opt to leave school early provided he/she has met all requirements for graduation.

Grade: 12

Prerequisite: None

Credit: 0

Course Weight: Unweighted

Study Skills

Students with room in their schedules may elect 1 period of study hall for local credit. Students will be expected to do class work, work on projects, and/or study for tests during this period. This class is dependent on teacher availability

Grade: 9-12

Prerequisite: None

Credit: 0

Course Weight: Unweighted