ABILENE ISD

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College and Career Planning Guide 2020-2021

The Abilene ISD College and Career Planning Guide is for informational purposes only and does not constitute a contract. The District makes every effort to ensure that this catalog contains complete and accurate information at the time of publication. However, circumstances may arise that require the District to change or correct existing policies, rules, or course and program information. The version of the AISD College and Career Planning Guide posted to the District's website will always reflect changes communicated in all errata.

ABILENE INDEPENDENT SCHOOL DISTRICT
2020-2021

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Tamika Braye	College Advisor

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Jennifer Seekins	Dean of Students

Abilene Independent School District

STRATEGIC PLAN

Vision

Inspired, skilled, engaged and empowered students make a difference in the world

Belief Statements

- Deep learning involves critical thinking, collaboration and problem solving.
- Relevant and meaningful student experiences are the core of the modern classroom.
- Initiative, innovation, a strong work-ethic and an entrepreneurial spirit are life skills each student needs.
- The cultivation of each student's strengths and passions leads to success.
- Respect, care and having high expectations for each student is the foundation for learning.

Strategic Priorities

- Make classrooms more meaningful and relevant for students and teachers.
- Develop a culture, climate and environment that values collaboration.
- Build partnerships with local business and organizations.
- Tell the AISD stories of inspiration, success and opportunity to the community, parents and staff.

TABLE OF CONTENTS

GENERAL INFORMATION

CLASSIFICATION

Classification is determined at the beginning of each school year based on the number of credits the student has earned by that time. Students, grades 9-12, will be classified on the following basis:

Credits Earned	Classification of Student
Promoted from grade 8	Grade 9 (Freshman)
6 (must include Algebra I and English I)	Grade 10 (Sophomore)
12	Grade 11 (Junior)
18	Grade 12 (Senior)

COURSE LIMITATIONS

Some courses listed in this guide may not work with some students' schedules due to availability, scheduling conflicts, or cancellations resulting from limited enrollment; therefore, students should always plan for alternative courses in case their first choices are unavailable.

Courses listed in the College and Career Planning Guide in the year which the student enters the 9th grade may or may not be offered in subsequent years, and additional courses may be added in subsequent years. Courses may be offered but will not be scheduled unless enrollment is sufficient to do so. New courses may be added by the Texas Education Agency and the State Board of Education or by local decision at any time.

COURSES

Students should be enrolled in 7 classes per semester. Students enrolled in Career Preparation or a Practicum course must take a minimum of 5 classes a day. A senior who is not on the Foundation Plan with an endorsement and/or has not passed state assessments for graduation must be enrolled in seven (7) instructional classes per semester and will not be eligible for a reserve period.

To be considered a full-time student and compete in UIL-sanctioned activities, students must be enrolled in school for a minimum of 5 credit-bearing periods a day.

When registering for classes, please note that AISD will offer transportation between Abilene High and Cooper High, when possible, to accommodate students desiring to take courses not offered at their home campus.

HIGH SCHOOL COURSES OFFERED IN MIDDLE SCHOOL

Students who satisfactorily complete a full year of Algebra I, Geometry, Pre-AP Art I, Theatre Arts I and/or Spanish I in middle school will receive the state required graduation credit(s) for grades 9-12.

Students who satisfactorily complete Principles of Manufacturing, Business Information Management I, Gateway, Communication Applications, or Health in middle school will receive state graduation elective credit for these courses.

High school courses taken in middle school are not used in high school GPA calculations.

CREDITS

Students may earn credit in summer school immediately following promotion from the 7th grade.

Students are required to obtain approval in advance from the principal or appointed designee in order to take a distance learning course.

Students enrolled in grades 9-12 may be awarded credit toward high school graduation for completing college-level courses. Such courses shall be provided only by institutions of higher education that are accredited by one of the following accrediting agencies:

- Southern Association of Colleges and Schools
- Middle States Association of Colleges and Schools
- New England Association of Schools and Colleges
- North Central Association of Colleges and Schools
- Western Association of Schools and Colleges
- Northwest Association of Schools and Colleges

To be eligible to enroll and be awarded credit toward state graduation requirements, a student should enroll in district approved dual credit course(s).

STATE ASSESSMENTS

To graduate from high school in the state of Texas, students must have satisfactory performance on the five State of Texas Assessments of Academic Readiness (STAAR) End-of-Course Assessments for the following: English I, English II, Algebra I, Biology and U.S. History.

NINTH GRADE ACADEMY

To assist ninth grade students with the transition from middle school to high school Abilene Independent School District created the **Ninth Grade Academies** at Abilene and Cooper High Schools. Emphasis is placed on the development of the whole student – academics, extracurricular, and building positive relationships. Students are scheduled with a team of core area teachers similar to the schedule at middle school, and the academy classes are located in specially designated areas on each campus. The Academies have staff to serve ninth grade students only. The core team of teachers is available for conferencing with parents and students. Since the pilot Academy began in 2005-06, the number of ninth graders failing core classes has decreased, attendance has improved, and more students have advanced to tenth grade.

STUDENTS TRANSFERRING TO ABILENE ISD

The following guidelines apply to the evaluation of the transcripts of students transferring to the Abilene Independent School District:

- No credit will be given for office aide and Driver's Education.
- Units of credit granted by high schools accredited by the Texas Education Agency, Texas Private School Accreditation Association, other state education agencies, or Department of Defense Schools will be honored.
- Units of credit earned from non-accredited schools and home study programs will require validation according to the following guidelines:
  - Credit for elective courses may be accepted, subject to review.
  - Required courses taken in sequence can validate credit in previously completed courses. (Example: English III completed successfully will validate English I and English II. Algebra II completed successfully will validate Algebra I).
  - Required courses that have no sequential course must be validated by examination or administrative approval. (Example: Geometry, World History, United States History).

PHYSICAL EDUCATION SUBSTITUTIONS

Students may receive TEA approved physical education credit for the following activities:

Activity	Semester	Credits
Athletics	1st and 2nd	up to 4 credits
Athletic Trainer	1st and 2nd	up to 4 credits
Cheerleading	1st and 2nd	1 credit only
Drill Team	1st and 2nd	1 credit only
Flag Corps	1st and 2nd	1 credit only
Marching Band	1st only	1 credit only
Musical Theatre	1st and 2nd	1 credit only
JROTC	1st and 2nd	up to 4 credits
Pep Squad	1st and 2nd	1 credit only
Revolution Strings	1st and 2nd	1 credit only
Show Choir	1st and 2nd	1 credit only

Private or Commercially-Sponsored Physical Activity Programs:
Students may also receive physical education credit by participating in private or commercially-sponsored physical activity programs, such as dance or martial arts, which have been approved by the Superintendent or designee. Students participating in this program may not be enrolled in another physical education class or athletics. Grades will be recorded as pass/fail and will not be calculated for GPA. Students interested in this program should contact the school counselor for an application.

SPECIAL EDUCATION

The special education department offers identified students with disabilities opportunities to develop abilities in the least restrictive environment. The ARD committee determines the course sequence for special education students as the graduation plan for each student is developed.

CREDIT BY EXAMINATION

CREDIT BY EXAM WITHOUT PRIOR INSTRUCTION

AVAILABILITY

Credit by Examination without prior instruction will be available to Abilene ISD students enrolled in grades 7-12 in the following courses:

Art 1
Algebra I, II
Biology
Chemistry
Economics
English I, II, III, IV
Environmental Systems
French I, II
Geometry
German I, II
Government
Health
Integrated Physics and Chemistry (IPC)
Latin I, II
Mathematical Models with Applications
Physics
Pre-Calculus
Spanish I, II
US History
World Geography
World History

UTILIZATION OF EXAMINATION SCORES

Credit for the respective course will be granted if a student scores at or above 80 on the placement examination. The examination score will be recorded on the academic achievement record transcript as the course grade. Grades earned through the credit by examination process will not be used in determining grade point averages or to establish eligibility.

CREDIT BY EXAM WITH PRIOR INSTRUCTION

AVAILABILITY

Subject to the limitation and eligibility criteria outlined in these guidelines, the credit by examination with prior instruction process will be available to Abilene ISD students enrolled in grades 7-12 to verify mastery after non-accredited instruction or to recover credit for a failed course:

Accounting
Algebra I, II
Art I
Astronomy
Banking and Financial Services
Business Information Management I
Biology
Business Law (.5 credit)
Chemistry
Child Development (.5 credit)
Communication Applications (.5 credit)
Digital and Interactive Media
Dollars and Sense
Economics (.5 credit)
English I, II, III, IV
Foundations of Personal Fitness
French I, II
Geometry
Government (.5 credit)
Health (.5 credit)
Hebrew Scriptures and New Testament
Individual Sports
Integrated Physics and Chemistry (IPC)
Lifetime Nutrition and Wellness
Math Models with Applications
Money Matters
Physics
Principles of Information Technology
Pre-Calculus
Psychology
Sociology
Spanish I, II, III
Team Sports
Theatre Arts
US History
World Geography
World History

UTILIZATION OF EXAMINATION SCORES

Credit for the respective course will be granted if a student scores a grade at or above 70 on the examination. The examination score will be recorded on the academic achievement record transcript as the course grade. Grades earned through the credit by examination process will not be used in determining grade point averages or to establish eligibility.

EXAMINATION

All examinations are purchased from an approved university. If taken to recover credit, the student taking an exam must pay the examination fee charged by the university. If taken to accelerate, there is no charge to the student. See EHDC (Legal) for additional information.

LIMITATION

Students who failed a course because they exceeded the maximum number of absences may not use credit by examination to receive credit for the respective course. A student is limited to two attempts per course to earn credit by exam.

STUDENT ELIGIBILITY

Unless excluded by the above limitation, a student will be permitted to attempt to receive credit by examination for a course if the following criteria are met:

- A written application which reflects parental approval has been submitted;
- The application is approved by the campus principal or designee.

DETERMINING GRADE POINT AVERAGE

The final grade point average (GPA) to determine the class rank for graduating students is computed by averaging the semester grades beginning with grade 9 and ending with the fifth six-week grading period of the final year. The second semester average for the final year is determined by averaging the grades for the fourth and fifth six-week grading periods.

If a course is retaken, the highest grade will be used in GPA calculations. Grades earned from high school courses taken in middle school, from dual-credit courses, from distance learning courses, and through credit by examination* are not used in GPA calculations (unless the dual credit class is also an AP class).

The formula used for computing GPA is as follows:

$$\frac{\text{(sum of grades)}}{\text{(number of grades)}} + \frac{\text{(number of AP/IB/local advanced honors grades 70 or above X 10)} + \text{(number of PreAP/IB/local honors grades 70 or above x 5)}}{\text{(standard number of grades accumulated at this point in academic career)}} = \text{GPA}$$

The "standard number of grades accumulated" is as follows:

All graduates - 56
Mid-term Senior (7 semesters) - 49
Junior (6 semesters) - 42
Sophomore (4 semesters) - 28
Freshman (2 semesters) - 14

The valedictorian will be the student graduating with the highest GPA. The salutatorian will be the student with the second highest GPA. If a tie occurs, co-valedictorians will be named.

The four other students with the highest GPA in the graduating class, together with the valedictorian and salutatorian, will appear on the platform and be officially recognized as part of the commencement program. For Abilene High and Cooper High, the 25 top-ranking students will be designated. Students with a GPA of 90 or above will be designated as honors graduates on the commencement program.

To be eligible for graduation honors described above, a student must complete the final two semesters prior to graduation in the District. Completion of a semester is defined as receiving semester grades from a District school.

Grades for transfer students will be recorded and averaged as received. Letter grades will be converted to numerical grades as follows:

A	=	95
B	=	85
C	=	77
D	=	72
F	=	no credit

A student may earn a maximum of one credit for a regular academic course, an advanced placement course, or a credit by examination* course with the same Texas Education Agency course number or one which covers the same required essential knowledge and skills.

Note: Juniors who wish to graduate early must notify the campus registrar and counselor of intent to graduate early. The deadline will be the end of the fourth six-weeks grading period of the junior year. Students must return the "Intent to Graduate Early" form to the counselor. Graduation, including participation in ceremonies, shall not occur without passing scores on all required End of Course exams.

***Credit by examination**—The District shall give a student in grades 6-12 credit for an academic subject in which the student has received no prior instruction if the student scores:

1. Eighty percent or above on a criterion-referenced examination for acceleration for the applicable course;
2. A three or higher on an advanced placement examination approved by the Board and developed by the College Board; or
3. A scaled score of 60 or higher on an examination approved by the Board and administered through the College-Level Examination Program.

If such credit is given, the District shall enter the examination score on the student's transcript, and the student is not required to take an end-of-the-course assessment instrument under Education Code 39.023(c) for that subject.

Students will have an annual review of their graduation plan to assess progress, discuss necessary adjustments and update the plan to revise course choices in order to meet new or additional goals. Students will be advised of courses recommended for college and career preparation and should keep themselves informed of changes in entry requirements and career trends. Parents/guardians will be consulted if major changes occur. (Note: In addition to completing curriculum requirements for graduation, all students must pass the required End-of-Course tests and complete the final semester of work to receive a diploma.)

Foundation High School Program with Endorsements

Students who complete the **Foundation High School Program** including Algebra II as one of four mathematics credits and the credit requirements specific to at least one endorsement will graduate with the **Distinguished Level of Achievement.** All students shall specify in writing the endorsement(s) the student intends to earn. Distinguished Level of Achievement allows students to be eligible for college admission under the top 10% automatic admissions provision.

More information about the Foundation High School Program and Endorsements can be found on page 11 and by reviewing Texas law using the QR code on this page or by navigating to http://ritter.tea.state.tx.us/rules/tac/chapter074/ch074b.html.

A student may also earn **Performance Acknowledgements** that will be placed on the student's diploma and transcript. Performance Acknowledgements may be earned by completing the following:

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

2. Outstanding Performance in Bilingualism or Biliteracy:
   - Completing all English Language Arts requirements and maintaining a minimum GPA of the equivalent of 80 on a scale of 100 and satisfying one of the following:
     - completion of a minimum of three credits in the same language in a language other than English with a minimum GPA of the equivalent of 80 on a scale of 100, and satisfying one of the following:
       - ❖ demonstrated proficiency in the Texas Essential Knowledge and Skills for Level IV or higher in a language other than English with a minimum GPA of the equivalent of 80 on a scale of 100; or
       - ❖ completion of at least three credits in foundation subject area courses in a language other than English with a minimum GPA of 80 on a scale of 100; or
       - ❖ demonstrated proficiency in one or more languages other than English through one of the following methods:
         - ➢ score of 3 or higher on a College Board Advanced Placement exam for a language other than English, or
         - ➢ score of 4 or higher on an International Baccalaureate Exam (IB) for a higher-level language other than English courses, or
         - ➢ performance on a national assessment of language proficiency in a language other than English of at least Intermediate High or its equivalent.
   - ELL students must complete the above criteria and also have participated and met the exit criteria for a bilingual or ESL program and scored at the Advanced High level on the Texas English Language Proficiency Assessment System (TELPAS).

3. Outstanding Performance on a College Board Advanced Placement test or International Baccalaureate examination by earning:
   - a score of three or above on a college Board advanced placement examination
   - a score of four or above on an International Baccalaureate examination for a higher-level course.

4. Outstanding Performance on the PSAT, the ACT-PLAN, the SAT or the ACT:
   - 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 (NBHRP) of the College Board or as part of the National Achievement Scholarship Program of the National Merit Scholarship Corporation; or.
   - achieving the college readiness benchmark score on at least two of the four subject tests on the ACT PLAN exam; or
   - a combined critical reading and mathematics score of at least 1250 on the SAT; or
   - a composite score on the ACT exam (without writing) of 28.

5. Earning a nationally or internationally recognized business or industry certification or license:
   - performance on an examination or series of examinations sufficient to obtain a nationally or internationally recognized business or industry certification; or
   - performance on an examination sufficient to obtain a government–required credential to practice a profession.

(Note: In addition to completing curriculum requirements for graduation, all students must pass the required End-of-Course tests and complete the final semester of work to receive a diploma.)

IMPORTANT NOTICE TO PARENTS

Students are eligible for admission to any general academic teaching institution (4-year state university) if they have completed the **Foundation High School Plan**. Students graduating on the Minimum Program may not be eligible for admission to a 4-year university. The legislation also adds the requirement that students in the top 10 percent of their high school graduating class are eligible for automatic admission to institutions of higher education *only* if they have completed the Foundation Distinguished Level diploma program. The University of Texas at Austin accepts the top 6 percent.

TEXAS HIGH SCHOOL GRADUATION REQUIREMENTS

Foundation School Program with Endorsements

Texas requires all students to begin high school with a four-year plan to earn at least 26 credits toward graduation with one of five endorsements. The five endorsements align to statewide programs of study toward future careers. Students are encouraged to consider their skills and interests as they select programs of study toward an endorsement.

Endorsements and Summary of Texas Career Pathways

STEM	BUSINESS & INDUSTRY	PUBLIC SERVICE	ARTS & HUMANITIES	MULTIDISCIPLINARY STUDIES
▪ Science, Technology, Engineering, & Mathematics (STEM)	▪ Agriculture, Food & Natural Resources ▪ Architecture & Construction ▪ Arts, A/V Technology and Communications ▪ Business, Marketing and Finance ▪ Hospitality and Tourism ▪ Information Technology ▪ Manufacturing ▪ Transportation, Distribution and Logistics	▪ Education and Training ▪ Health Science ▪ Human Services ▪ Law and Public Service ▪ Four years JROTC	▪ Arts ▪ Humanities	Select courses from the curriculum of each of the other endorsement areas; Credits in a variety of advanced courses from multiple content areas sufficient to complete the distinguished level of achievement under the foundation program. See p. 114 for more information.

REQUIRED COURSES	FOUNDATION SCHOOL PROGRAM WITH ENDORSEMENTS
ENGLISH LANGUAGE ARTS	**4 Credits English:** ELA I, II; English III or an AP English; and one credit in any authorized advanced English course (see pg.12 for course list)
MATHEMATICS	**4 Credits Mathematics:** Algebra 1**,** Geometry, two credits in any authorized advanced math course (STEM must take Algebra II) **Distinguished Level of Achievement:** Algebra I, Geometry, Algebra II, one credit in any authorized advanced math course (see pg. 11 for course list)
SCIENCE	**4 Credits Science:** Biology, two credits in any advanced science course, one credit in IPC, Chemistry or Physics (see pg.12) for course list)
SOCIAL STUDIES	**4 Credits Social Studies Highly Recommended** (3 Required)**:** World Geography is highly recommended; World History, U.S. History, and Government/Economics are required
PHYSICAL EDUCATION	**1 Credit:** Required credit may be from any combination of the following one-half to one credit courses: Foundations of Personal Fitness, Adventure/Outdoor Education, Aerobic Activities, or Team or Individual Sports. Credit may not be earned for any TEKS-based course more than once. Credit for any of the courses listed above may be earned through participation in the following activities: Athletics (up to 4 credits) Approved private/commercial (up to 4 credits) JROTC (1 credit) Drill Team (up to 1 credit) Marching Band (up to 1 credit) Cheerleading (up to 1 credit)
LANGUAGES OTHER THAN ENGLISH	**2 Credits**: In the same language or 2 credits selected from Computer Science I, II, or III
FINE ARTS	**1 Credit**
ELECTIVES	**6 Credits** Must be selected from the State Board of Education approved courses for grades 9-12
TOTAL CREDITS	**26**

In addition to endorsements, students may earn performance acknowledgements on their high school transcripts to reflect outstanding achievement in certain areas.

PERFORMANCE ACKNOWLEDGEMENTS (next page for additional detail)
▪ **Outstanding performance**: Dual credit coursework; bilingualism/bi-literacy; Advanced Placement or International Baccalaureate performance; national exam performance
▪ **Certification:** Nationally or internationally recognized business or industry certification or license

Abilene ISD Student 5-Year Plan

Student Name:_____ ID#: _____ Campus: ☐ Clack MS ☐ Craig MS ☐ Madison MS ☐Mann MS

This plan intends to give families a guide to use as students progress through high school and plan for college and careers. Review the plan each year to make sure students take the required courses for graduation with the honors sought. Ensure enrollment in academic courses that support student post-secondary plans.

Endorsement Selected

- ☐ STEM
- ☐ Business and Industry
- ☐ Public Service
- ☐ Arts and Humanities
- ☐ Multidisciplinary Studies

Post High School Plan

- ☐ Two-Year College
- ☐ Technical Training
- ☐ Four-Year College
- ☐ Military Service
- ☐ Employment
- ☐ Other

Disciplines	Credits
English	4
Math	4
Science	4
Social Studies	4
Foreign Language	2
Fine Arts	1
Physical Education	1
Electives	6
Total for Graduation with Endorsement	**26**

Distinguished Level of Achievement* and Performance Acknowledgement

Distinguished Achievement requires –

- Algebra II as one of 4 maths
- Four sciences
- Endorsement completed

*Required for the top ten percent for automatic admission to Texas public colleges and universities. Top six percent is required by UT at Austin.

Outstanding Performance in:

- ☐ Dual credit courses
- ☐ Bilingualism/bi-literacy
- ☐ AP or IB performance
- ☐ PSAT/ACT/SAT score
- ☐ National or international business or industry certification or government-required credential to practice a profession

Students need to select and take advanced coursework in their college and career-related disciplines. Students are strongly encouraged to take Pre-Advanced Placement, Advanced Placement, Dual Credit and Career and Technical Education courses. Students must also successfully complete the STAAR EOC for Algebra I, Biology, U.S. History, English I and English II.

SUBJECT/CREDIT GOAL	7th/8th Grade	9th Grade (7 courses)	10th Grade (7 courses)	11th Grade (7 courses)	12th Grade (7 courses)
English - **4**		English I	English II	English III	English IV
Mathematics - **4**					
Science - **4**					
Social Studies - **4**		World Geography	World History	US History	Gov/Eco
Endorsement Elective - **4**					
Additional Elective - **2**					
PE/Athletics - **1**					
Foreign Language - **2**					
Fine Arts - **1**					
Alternate Course					
Alternate Course					

Student Signature: _____ Parent Signature: _____ Parent Phone #: _____

Campus Review Dates: 9th Grade _____ 10th Grade _____ 11th Grade _____ 12th Grade _____

Copy 1 – High School Counselor Copy 2 – CTE Office Copy 3 – Student/Family Copy 4 – BUSIM Teacher

APPROVED ADVANCED COURSES FOR THE FOUNDATION AND ENDORSEMENT HIGH SCHOOL PLAN

These courses satisfy the advanced course requirements for the Foundation & Endorsement High School Plan in English, Mathematics, and Science. This list is subject to update at any time by the Texas Education Agency and the State Board of Education.

ENGLISH LANGUAGE ARTS:

- Advanced Broadcast Journalism III
- Advanced Journalism: Newspaper III
- Advanced Journalism: Yearbook III/Literary Magazine
- Business English
- College Prep for Post-Secondary Readiness in English Language Arts
- Communications Applications (must be combined with another half-credit from this list)
- Creative Writing
- Debate III
- English IV
- Humanities
- Independent Study in English
- Independent Study in English: Hebrew Scriptures
- Independent Study in English: New Testament
- Independent Study in Journalism
- Independent Study in Speech
- Literary Genres
- Oral Interpretation III
- Public Speaking III
- Research and Technical Writing
- AP English Language & Composition**o**
- AP English Literature & Composition
- Dual Credit Courses
- IB International Baccalaureate Language Studies A1 Higher Level

MATHEMATICS:

- Accounting II (CTE)♦
- Advanced Quantitative Reasoning
- Algebra II or PAP Algebra II
- Algebraic Reasoning⌘
- College Prep for Post-Secondary Readiness in Mathematics**o**
- Discrete Mathematics for Computer Science
- Discrete Mathematics for Problem Solving
- Engineering Mathematics (CTE)
- Independent Study in Math
- Mathematics for Medical Professionals (CTE)
- Pre-calculus or PAP Pre-calculus
- Statistics⌘
- Statistics & Business Decision Making (CTE)
- AP Calculus AB or BC
- AP Computer Science
- AP Statistics
- Dual Credit Courses
- IB Mathematical Studies Standard Level, IB Mathematics Standard Level, IB Mathematics Higher Level, or IB Further Mathematics Higher Level

SCIENCE:

- Advanced Animal Science (CTE)
- Advanced Plant and Soil Science (CTE)
- Anatomy & Physiology (CTE)
- Aquatic Science
- Astronomy
- Biotechnology I or II (CTE)
- Chemistry or PAP Chemistry
- Earth and Space Science
- Engineering Design and Problem Solving (CTE)
- Engineering Science (CTE)
- Environmental Systems
- Food Science (CTE)
- Forensic Science (CTE)
- Medical Microbiology (CTE)
- Pathophysiology (CTE)
- Physics◈
- Principles of Technology (CTE) ◈
- Scientific Research and Design (CTE)
- AP Biology
- AP Chemistry
- AP Environmental Science
- AP Physics I and II: Algebra-Based
- AP Physics C
- Dual Credit Courses
- IB Biology, IB Chemistry, IB Physics or IB Environmental Systems

♦ This course does not qualify as a fourth math credit. It may be taken as a third math or as an elective.
⌘ This course does not qualify as a fourth math credit for the STEM Endorsement.
o This course must be taken as a fourth course to count as an advanced credit.
◈ Credit may not be earned for both physics and Principles of Technology to satisfy science credit requirements.

LOCALLY-APPROVED ADVANCED CTE COURSES FOR THE FOUNDATION PLUS ENDORSEMENT HIGH SCHOOL PLAN

Not all courses listed will be offered annually. In addition to practicum courses listed below, CTE **Extended Practicum** and **Project-Based Research** courses qualify as locally-approved advanced CTE courses. **Career Preparation** and **Extended Career Preparation** courses qualify as locally-approved advanced CTE courses only when matched to the student's career cluster and as state electives otherwise. Students transferring from other districts may bring course credits that qualify as advanced under Texas CTE Programs of Study.

AGRICULTURE, FOOD AND NATURAL RESOURCES

- Agricultural Structures Design and Fabrication
- Livestock Production
- Practicum In Agriculture, Food, and Natural Resources
- Veterinary Medical Applications

ARCHITECTURE AND CONSTRUCTION

- Construction Technology II
- Electrical Technology II
- Mill and Cabinetmaking Technology
- Career Preparation I Extended
- Practicum in Construction Technology

ARTS, A/V TECHNOLOGY, AND COMMUNICATIONS

- Audio/Video Production II
- Audio/Video Production II with Lab
- Animation II with Lab
- Digital Audio Technology II
- Graphic Design and Illustration II with Lab
- Career Preparation I Extended
- Practicum in Animation
- Practicum in Audio/Video Production
- Practicum in Graphic Design and Illustration

BUSINESS, MARKETING, AND FINANCE

- Accounting II
- Business Management
- Statistics and Business Decision Making
- Career Preparation I Extended

EDUCATION AND TRAINING

- Child Guidance
- Instructional Practices
- Career Preparation I
- Career Preparation I Extended
- Practicum in Education and Training

LAW AND PUBLIC SERVICES

- Foreign Service and Diplomacy
- National Security
- Political Science II
- Practicum in Local, State, and Federal Government
- Revenue, Taxation, and Regulation

HEALTH SCIENCE

- Anatomy and Physiology
- Health Science Theory
- Medical Microbiology
- Practicum in Health Science

HOSPITALITY AND TOURISM

- Advanced Culinary Arts
- Career Preparation I Extended
- Practicum in Culinary Arts

HUMAN SERVICES

- Counseling and Mental Health
- Career Preparation I Extended

INFORMATION TECHNOLOGY

- Computer Technician Practicum
- Computer Technician Practicum (2nd time taken)
- Career Preparation I Extended
- Practicum in Information Technology

LAW AND PUBLIC SERVICE

- Anatomy & Physiology
- Correctional Services
- Counseling & Mental Health
- Firefighter I
- Firefighter II
- Forensic Science

LOCALLY-APPROVED ADVANCED CTE COURSES FOR THE FOUNDATION PLUS ENDORSEMENT HIGH SCHOOL PLAN

Not all courses listed will be offered annually. In addition to practicum courses listed below, CTE **Extended Practicum** and **Project-Based Research** courses qualify as locally-approved advanced CTE courses. **Career Preparation** and **Extended Career Preparation** courses qualify as locally-approved advanced CTE courses only when matched to the student's career cluster and as state electives otherwise. Students transferring from other districts may bring course credits that qualify as advanced under Texas CTE Programs of Study.

MANUFACTURING

- Career Preparation I Extended
- Practicum in Manufacturing
- Practicum/Extended Practicum in Manufacturing
- Welding II

SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS (STEM)

- Aerospace Engineering (PLTW)△
- Career Preparation I Extended
- Computer Integrated Manufacturing (PLTW)△
- Computer Science II
- Cybersecurity Capstone
- Engineering Design and Development (PLTW) △
- Engineering Science
- Networking
- Practicum in Information Technology
- Practicum in STEM

△ TEA approved CTE Innovative Courses cannot be the final course in a coherent sequence for endorsement in STEM

TRANSPORTATION, DISTRIBUTION, AND LOGISTICS

- Automotive Technology I: maintenance & Light Repair
- Automotive Technology II: Automotive Service
- Career Preparation I Extended
- Practicum in Transportation Systems

For students who entered high school on or before August 2019, these additional courses qualify as Local Advanced and Advanced CTE for the purpose of endorsement. Courses marked with a diamond may be taken as a third math or additional elective, but may not be the student's fourth math for endorsement. :

Advanced Animal Science
Advanced Energy and Natural Resource Management
Advanced Marketing
Advanced Plant and Soil Science
Agribusiness Management and Marketing
Agricultural Power Systems
Aircraft Powerplant Technology
Animation II
Applied Mathematics for Technical Professionals (CTE)♦
Architectural Design II
Biotechnology II
Building Maintenance Technology II
Business Information Management II
Business Law
Child Guidance
Commercial Photography II
Computer Programming II
Construction Management II
Cosmetology II
Court Systems and Practices
Digital Electronics♦
Engineering Design and Presentation II
Engineering Mathematics
Fashion Design II
Financial Analysis
Financial Math
Financial Mathematics (CTE)♦
Food Processing
Food Science
Global Business
Graphic Design and Illustration II
Hospitality Services
HVAC and Refrigeration Technology I (Cisco College)
HVAC and Refrigeration Technology II (Cisco College)
Interior Design II
Landscape Design and Management
Law Enforcement II
Manufacturing and Engineering Technology II (CTE)♦
Manufacturing Engineering
Mathematical Applications in Agriculture, Food and Natural Resources
Mathematical Applications in Agriculture, Food, and Natural Resources (CTE)♦
Mathematical Models with Applications♦
Networking*
Paint and Refinishing
Pathophysiology
Plumbing Technology II
Practicum in Architectural Design
Practicum in Business Management
Practicum in Commercial Photography
Practicum in Construction Management
Practicum in Distribution & Logistics
Practicum in Fashion Design
Practicum in Hospitality Services
Practicum in Human Services
Practicum in Interior Design
Practicum in Law, Public Safety, Corrections, and Security
Practicum in Marketing
Practicum in Masonry Technology
Practicum in Printing and Imaging Technology
Practicum in Science, Technology, Engineering, and Mathematics
Precision Metal Manufacturing II
Printing and Imaging Technology II
Range Ecology and Management
Robotics II (CTE)♦
Robotics Programming and Design♦
Scientific Research and Design
Small Engine Technology II
Solid State Electronics
Turf Grass Management
Video Game Design
Virtual Business
World Health Research

❖ *ADVANCED PLACEMENT/HONORS PROGRAM*

PURPOSES OF ADVANCED PLACEMENT/HONORS COURSES

Advanced Placement courses are college level courses taken by high school students in which they may receive college credit by passing a national exam. Students must take an AP exam to receive college credit. Colleges and universities set their own standards for awarding credit. Over 90% of the U.S. colleges and universities as well as those in twenty other countries award credit for AP exams.

AP courses are taught by high school teachers or university professors who receive College Board training. Since AP students are working on a college level, AP courses are designated as Bonus Points courses, and the students receive additional points toward their GPA. All AP courses are open to students in grades 9-12 who are in good academic standing and have met the criteria for selection.

CRITERIA FOR SELECTION

Students who meet the following criteria should consider enrolling in Advanced Placement, PreAP or honors courses:

- Gifted and talented student;
- Have a semester grade of at least 80 in an AP, PreAP or honors course in the same or comparable academic area the previous semester;
- Have a grade of at least 90 in an on-level course in the same or comparable academic area the previous semester;
- Have teacher, counselor, or principal recommendation to enroll in the class.

NEW STUDENTS TO ABILENE ISD

A student new to Abilene ISD who has been enrolled in/or approved for an Advanced Placement, PreAP or honors program or the equivalent in a previous school will be offered placement in the Abilene ISD Advanced Placement program.

ADVANCED PLACEMENT/HONORS COURSES AVAILABLE

English	**Mathematics**	**Science**
PreAP English I	PreAP Algebra I	PreAP Biology
PreAP English II	PreAP Geometry	PreAP Chemistry
AP English III	PreAP Algebra II	AP Biology
AP English IV	PreAP Pre-Calculus	AP Chemistry
	AP Calculus	AP Physics 1: Algebra-Based
Fine Arts	AP Statistics	AP Physics 2: Algebra-Based
PreAP Art I		AP Physics C
PreAP Art II – Drawing		AP Environmental Science
PreAP Art III –Drawing	**Social Studies**	Engineering Science
AP Art/Drawing Portfolio	PreAP World Geography	
AP 2D Design Portfolio	AP Human Geography	**Foreign Language**
PreAP Art II – Photography	AP World History	PreAP Spanish I
PreAP Art III – Photography	AP US History	PreAP Spanish II
AP 2D Design Portfolio –	AP US Government and Politics	PreAP Spanish III
Photography/Digital Imaging	AP Macroeconomics	AP Spanish IV
AP 3D Design Portfolio	AP European History	AP Spanish V
AP History of Art	AP Psychology	PreAP French III
AP Music Theory	AP Government	AP French IV
Other:		
AP Seminar (Year I of AP Capstone)		
AP Research (Year 2 of AP Capstone)		

For additional information, see your counselor and visit www.apcentral.collegeboard.com

PROJECT LEAD THE WAY HONORS COURSES AVAILABLE

Introduction to Engineering Design
Computer Integrated Manufacturing
Aerospace Engineering
Engineering Design and Development

❖ *DUAL CREDIT COURSES*

Abilene ISD students have dual credit opportunities at six colleges and universities (Abilene Christian University, Angelo State University, Cisco College, Hardin-Simmons University, McMurry University, and Texas State Technical College-West Texas) and through the state-wide Advanced Technical Credit (ATC) Program. AISD may negotiate agreements with additional colleges for dual credit. Additional dual credit courses may be added at any time. Students must meet eligibility criteria for each course.

Students may earn both high school and college credit at the same time when enrolled in a dual credit course. Credit is posted to the student's high school transcript and college transcript upon successful completion of the course. The student is taught in the same way as college students who take the same course. With regard to dual credit courses taught by college or university faculty, grading procedures are determined by the college or university. Dual credit courses taught by AISD faculty follow AISD grading guidelines. **Only AP dual credit grades are included in GPA calculations.**

Dual enrollment classes are taught by one of the following teaching arrangements:

- The course may be taught on the college campus by a college instructor
- The course may be taught on a high school campus by a college instructor
- The course may be taught on a high school campus by a high school/college teacher

Policies regarding college tuition, fees, and required instructional supplies are set by the college or university. Students must meet specific college and Abilene ISD criteria before being accepted for enrollment in a dual credit course. Students should check with individual institutions of higher learning for admission requirements and details for awarding credit. Please note that students may be responsible for the cost of tuition and books. Interested students should check with their counselor for information and requirements for enrollment.

Please refer to the online or published 2020-2021 Dual Credit Supplement for the dual credit course offerings and conditions of enrollment. The Dual Credit Supplement has specific information from the universities regarding course offerings, course descriptions, fees, requirements and important dates. This supplement will be available in April or as soon as college courses are published at the college/university level. A District Dual Credit Informational Meeting also will be scheduled in the spring and registration dates for students to register with the universities will be announced then.

WHAT COUNTS IN COLLEGE ADMISSIONS

Factors Influencing Admission Decisions (NACAC Annual Admissions Survey)	
Grades in Academic/Challenging Courses	(80%)
SAT/ACT Scores	(52%)
Grades in All Subjects	(45%)
Class Rank	(31%)
Essay	(20%)
Teacher/Counselor Recommendations	(17%)
Community Service	(8%)
Work/School Activities	(8%)

The single most important credential in the applicant's folder is his/her academic record, particularly the junior year and the first half of the senior year. Usually you can help your college chances by making a strong effort to improve your course selections and grades during this time, showing you are "on the way up." College preparatory courses taken throughout high school are the most important factor in the college admission decision and will receive scrutiny by admissions officers.

The college admissions process is complex. Here are some points that may be valuable as you try to unravel its mysteries:

- Standardized examinations play a major role in the admission process. Students should take the PSAT, SAT, and ACT during their junior year. These scores are considered reliable predictors for college success when combined with high school grades in academic courses and rank in class.

- Extracurricular activities and community service play an important role in the admissions process. Colleges frequently state they look for students who will make a significant contribution to the college community. Because around 70% to 80% of all students can handle the academics, colleges often look for that extra dimension – musicians, editors, actors, photographers, athletes and others with a developed and usable talent as well as students with leadership qualities. Students with superior ability in these areas can expect to receive a special review by faculty with expertise and careful consideration by the admissions office.

- For most competitive colleges, recommendations are an essential part of an applicant's file. The exceptions to this rule are large state universities where written recommendations are often not required or given as much weight. Recommendations describe not only achievements and skills, but also character, motivation, integrity and patterns of growth. Teachers' reports also play an important role in selection process, particularly when the teachers know the student well and are willing to detail potential in specific areas.

- Correspondence with colleges should be initiated and followed up by the student. Many college admissions people see this as a reflection of a student's sense of responsibility and independence. It also indicates such items as accuracy, clarity, courtesy, and maturity. If there is a particular problem on the school record or the application that needs further clarification, the student should feel free to write the college. Just as colleges keep files on students, students should keep files on the colleges. Included in the files should be copies of letters, notes, and drafts of essays. Your guidance counselor and English teacher are excellent resources when corresponding with colleges, filling out applications, and writing the required essays.

For more information visit the Abilene Education Foundation's website at www.aaeeff.org.

Science, Technology, Engineering and Mathematics (STEM) Endorsement

Subject to State Board of Education approval and updates:

A student may earn a Science, Technology, Engineering and Mathematics Endorsement (STEM) by completing the requirements including Algebra II, chemistry, physics and:

1. a coherent sequence of courses for four or more credits in career and technical education (CTE) that consists of at least two courses in the same career cluster, including at least one advanced CTE course which includes any course that is the third or higher course in a sequence. The final course in the sequence must be obtained from the STEM career cluster.
2. a coherent sequence of four courses in computer science; or
3. five courses in mathematics by successfully completing Algebra I, geometry, Algebra II and two additional math courses for which Algebra II is a prerequisite; or
4. five courses in science by successfully completing biology, chemistry, physics and two additional science courses.
5. in addition to Algebra II, chemistry and physics, a coherent sequence of three additional credits from no more than two of the areas listed in 1, 2, 3 and 4.

ATEMS

ACADEMY OF TECHNOLOGY, ENGINEERING, MATH & SCIENCE

A STEM High School

On the campus of TSTC located at

650 E. HWY 80
Abilene, Texas 79601
325-794-4140

The Academy of Technology, Engineering, Math & Science is a public high school within Abilene ISD. The academic focus of this campus is on providing challenging, high-quality STEM (Science, Technology, Engineering, & Math) instruction in order to prepare students for success in STEM careers and higher education. ATEMS emphasizes academic excellence, personal responsibility, respect, professional communication, community service, and leadership.

The engineering program of study is comprised of courses that are part of the nationally-recognized Project Lead the Way program. PLTW provides course curriculum and extensive teacher-training. ATEMS utilizes traditional instruction as well as Project-Based Learning (PBL) and Problem-Based Learning (PrBL) and provides 1-to-1 technology access for all students. ATEMS offers rigorous Pre-AP, AP, and dual-credit courses as well as on-level academic courses. In order to encourage both communication and collaboration, students and teachers utilize a web-based learning management system.

ATEMS provides numerous opportunities for student leadership and involvement including Student Council, UIL academic competitions, robotics, National Honor Society, National Technical Honor Society, Mouse Squad, STARS, and conference-led activities and community service projects. In addition, ATEMS students may choose to participate in athletics, band, orchestra, choir, and Junior ROTC at Abilene and Cooper high schools.

Students who are interested in attending ATEMS may apply online at www.abileneisd.org/atems. Application dates and information are also available at that website. For information regarding coursework and extra-curricular participation, please contact the ATEMS counselor.

General schedule overview for students attending ATEMS

Grade 9	Grade 10	Grade 11	Grade 12
English 1- Academic or Pre-AP	English II- Academic or Pre-AP	English III- Academic or AP/DC	English IV- Academic or AP/DC
Algebra 1- Academic or Pre-AP, Geometry- Academic or Pre-AP	Geometry- Academic or Pre-AP, Algebra II- Academic or Pre-AP	Algebra II- Academic or Pre-AP, Pre-Calculus- Academic or Pre-AP	Pre-Calculus- Academic or Pre-AP, AP Calculus, AP Statistics
World Geography	World History	U.S. History Academic or AP U.S. History	Government/Economics Academic or AP Government/AP Economics
Biology- Academic or Pre-AP	Chemistry- Academic or Pre-AP	Physics Academic or AP Physics I, Additional science as offered	AP Physics II, AP/DC Biology, Additional science as offered
Spanish I- Academic or Pre-AP	Spanish II- Academic or Pre-AP	Spanish II Pre-AP or other elective	Elective
PE, JROTC, Athletics, or Fine Arts	PE, JROTC, Athletics, Fine Arts or elective	PE, JROTC, Athletics, Fine Arts or other elective	PE, JROTC, Athletics, Fine Arts or other elective
Course aligned with selected program of study	Course aligned with selected program of study	Course aligned with selected program of study	Course aligned with selected program of study

STEM Endorsement
*Advanced CTE course

The **Cybersecurity** program of study includes the occupations and educational opportunities related to planning, implementing, upgrading, or monitoring security measure for the protection of computer networks and information. This program of study may also include exploration into responding to computer security breaches and virus and administering network security measures.

COURSES

LEVEL 1

Foundations of Cybersecurity

LEVEL 2

Computer Science I

Computer Maintenance (or)
Computer Maintenance with Lab

LEVEL 3

Networking

LEVEL 4

Cybersecurity Capstone
(Beginning 2022-2023)

Practicum in Information Technology

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	GIAC Reverse Engineering Malware	System Networking, and LAN/WAN Management	Computer Systems Networking and Telecommunications	Computer Systems Analyst
	Certified Advanced Windows Forensic Examiner	Information Technology		Information Technology
	SAP Certified Technology Professional System Security Architect	Computer and Information Sciences, General		
	Cisco Certified Network Professional Security Certification	Computer Science		
Additional industry based certification information is available from the TEA CTE Website				
For more information on postsecondary options for this program of study, visit TXCTE.org.				

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Information Security Analysts	$91,915	814	29%
Network and Computer System Administrators	$82,597	2,814	19%
Computer Systems Analyst	$87,568	5,937	29%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Student organization = SkillsUSA or Technology Students Association
Job shadow a computer system analyst or information security analyst.

Work Based Learning Activities:
Obtain an industry based certification.

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

Successful completion of the Cybersecurity program of study will fulfill requirements of a STEM Endorsement.
Approved Statewide Program of Study - September 2019

Texas Education Agency

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Foundations of Cybersecurity	03580850 (1 credit)	None	9-12
Computer Science I	03580200 (1 credit)	PREQ: Algebra I	9-12
Computer Maintenance (or) Computer Maintenance with Lab	13027300 (1 credit) 08933 13027310 (2 credits) 08704	None (Recommended: Principles of Information Technology)	10-12
Networking	13027400 (1 credit)	None (Recommended: Principles of Information Technology, Computer Maintenance, and Computer Maintenance Lab)	10-12
Cybersecurity Capstone	03580855 (1 credit)	None (Recommended: Foundations of Cybersecurity)	11-12
Practicum in Information Technology	13028000 (2 credits)	PREQ: A minimum of two high school information technology courses	12

STEM - Cybersecurity Program

Foundations of Cybersecurity

Course #: 08963 — ***Credits: 1***

PEIMS #: 03580850 — ***Grades: 9-12***

In this course, students will develop the knowledge and skills needed to explore fundamental concepts related to the ethics, laws, and operations of cybersecurity. Students will examine trends and operations of cyberattacks, threats, and vulnerabilities. Students will review and explore security policies designed to mitigate risks. The skills obtained in this course prepare students for additional study in cybersecurity.

Prerequisites: None

Computer Science I (TACS1)

Course #: 09181 — ***Credits: 1***

PEIMS #: 03580200 — ***Grades: 9-12***

Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts. **This course will be offered at ATEMS during the 2020-2021 school year and will be available to all high school students beginning in 2021-2022.**

Prerequisites: Algebra I

Computer Maintenance (COMPMTN)

Course #: 08933 — ***Credits: 1***

PEIMS #: 13027300 — ***Grades: 10-12***

Students acquire knowledge of computer maintenance and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer maintenance. Students will apply technical skills to address the IT industry and emerging technologies. This course cannot be entered at mid-term.

Prerequisites: Principles of Information Technology recommended

Computer Maintenance with Lab (COMMTLAB)

Course #: 08704 — ***Credits: 2***

PEIMS #: 13027310 — ***Grades: 10-12***

Students acquire knowledge of computer maintenance and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer maintenance. Students will apply technical skills to address the IT industry and emerging technologies. This course cannot be entered at mid-term.

Prerequisites: Principles of Information Technology recommended

Networking* (NETWRK)

Course #: 08865 — ***Credits: 1***

PEIMS #: 13027400 — ***Grades: 10-12***

Students will develop knowledge of the concepts and skills related to data networking technologies and practices in order to apply them to personal or career development. To prepare for success, students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

Prerequisites: Principles of Information Technology, Computer Maintenance, and Computer Maintenance Lab recommended

Cybersecurity Capstone*

Course #: 08890 — ***Credits: 1***

PEIMS #: 03580855 — ***Grades: 11-12***

In the Cybersecurity Capstone course, students will develop the knowledge and skills needed to explore advanced concepts related to the ethics, laws, and operations of cybersecurity. Students will examine trends and operations of cyberattacks, threats, and vulnerabilities. Students will develop security policies to mitigate risks. **AISD plans to offer this course beginning in the 2022-2023 school year.**

Prerequisites: Foundations of Cybersecurity recommended

Practicum in Information Technology* (PRACIT1)

Course #: 08871 — ***Credits: 2***

PEIMS #: 13028000 — ***Grade: 12***

Students gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge and skills in the proper use of analytical and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an industry mentor, as an unpaid or paid internship, as part of a capstone project or as career preparation. **This course is only offered at ATEMS.**

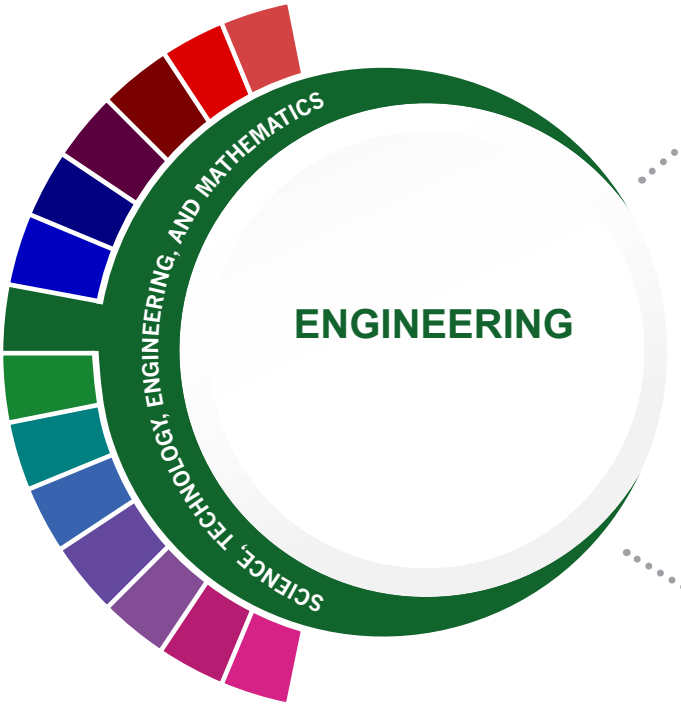
Prerequisites: A minimum of two high school information technology (IT) courses required.

STEM Endorsement

*Advanced CTE course

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

NOTE:
Engineering will be available to ATEMS students for the 2020-2021 school year.
It will be available for AHS, CHS, and ATEMS students in 2021-2022.



COURSES

LEVEL 1

Introduction to Engineering Design (PLTW)

LEVEL 2

Engineering Science

LEVEL 3

Computer Integrated Manufacturing (PLTW)

Aerospace Engineering (PLTW)

LEVEL 4

Engineering Design and Development (PLTW)

Practicum in Science, Technology, Engineering, and Mathematics

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Autodesk Certified Professional or User - Inventor	Engineer, Professional	Electrical and Electronics Engineering	Electrical and Electronics Engineering	Electrical and Electronics Engineering
	Fluid Power Systems Designer	Drafting and Design Technology/ Technician, General	CAD/CADD Drafting and/or Design Technology/ Technician	Mechanical Engineering
	Certified Biomedical Auditor	Engineering Technology	Bioengineering and Biomedical Engineering	Bioengineering and Biomedical Engineering
	Certified Cost Estimator/ Analyst		Construction Engineering Technology/ Technician	

Additional industry based certification information is available from the TEA CTE website.

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

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Aerospage Engineers	$110,843	481	9%
Industrial Engineers	$97,074	1,263	10%
Mechanical Engineers	$91,707	1,535	11%
Chemical Engineers	$112,819	474	9%
Electrical Engineers	$98,405	1,137	10%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Student organization = SkillsUSA

Career Preparation Activities:
Complete an engineering internship.
Job shadow a machinist.

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

Successful completion of the Engineering program of study as indicated above may **NOT** fulfill requirements of the Business and Industry or STEM Endorsement. Innovative courses cannot be the sole final course in the coherent sequence for an endorsement in STEM. Please work with your counselor to determine how to meet endorsement requirements. Approved Statewide Program of Study - September 2019

TEA Texas Education Agency

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE (Recommended)
Introduction to Engineering Design (PLTW)	N1303742 (1 credit) 08900	None	9-12
Engineering Science	13037500 (1 credit) 08981	PREQ: Algebra I; Biology, Chemistry, IPC, or Physics. AISD Requirement: Introduction to Engineering Design	10-12
Computer Integrated Manufacturing (PLTW)	N1303748 (1 credit) 08902	AISD Requirement: Introduction to Engineering and Engineering Science	9-12
Aerospace Engineering (PLTW)	N1303745 (1 credit) 08982	AISD Requirement: Introduction to Engineering and Engineering Science	9-12
Engineering Design and Development (PLTW)	N1303749 (1 credit) 08903	AISD Requirement: Introduction to Eng Design, Engineering Science, and either Computer Integrated Manufacturing or Aerospace Engineering	9-12
Practicum in Science, Technology, Engineering, and Mathematics	13037400 (2 credits) 08891	PREQ: Algebra I and Geometry (Recommended: Two STEM career cluster credits)	12

STEM - Engineering Program

The Abilene Independent School District utilizes the Project Lead the Way® Pre-engineering Program for grades 9 -12. Project Lead the Way® (PLTW) is a standards-based curriculum that will challenge the student to solve real-world engineering problems by applying knowledge and skills related to mathematics, science, and technology. A student who completes the challenging pre-engineering and academic curriculum will:

- use state-of-the-art computer hardware and software technology in use in the engineering industry;
- participate in a hands-on, team-oriented activity-based program;
- have the opportunity to enroll in a sequence of four courses covering the essentials of engineering technology; and
- take courses that will apply and reinforce the study of math, science and technical communication

Requirements to participate in Project Lead the Way® include

- having a strong interest in pursuing a career in engineering or engineering technology;
- enrolling in at least one college preparatory mathematics course each year in high school; and
- having a strong interest in science

The four-year sequence for pre-engineering Project Lead the Way® is as follows:

9th grade: Introduction to Engineering Design
10th grade: Engineering Science
11th grade: Computer Integrated Manufacturing and/or Aerospace Engineering
12th grade: Engineering Design and Development

Through the 2020-21 school year, all Project Lead the Way® courses are only available at the Academy of Technology, Engineering, Mathematics and Science (ATEMS) and are only open to ATEMS students. Beginning in 2021-22, the PLTW courses will be available to all AISD students through The LIFT Center.

Introduction to Engineering Design (PLTW) (IED)

Honors

Course #: 08900 — ***Credits: 1***

PEIMS #: N1303742 — ***Grades: 9-12***

This is the first course in the AISD Project Lead the Way® Pre-Engineering Program sequence. Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software and use an engineering notebook to document their work. **This course is only offered at ATEMS for 2020-2021. It will be offered at The LIFT for all high schools beginning in 2021-2022.**

Prerequisites: None

Engineering Science* (ENGSCIEN)

Honors

Course #:08981 — ***Credits: 1***

PEIMS #: 13037500 — ***Grades: 10-12***

Engineering Science is an engineering course designed to expose students to some of the major concepts and technologies that they will encounter in a postsecondary program of study in any engineering domain. Students will have an opportunity to investigate engineering and high-tech careers. Students will employ science, technology, engineering, and mathematical concepts in the solution of real-world challenge situations. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community. This course cannot be entered at mid-term. **This course is only offered at ATEMS for 2020-2021. It will be offered at The LIFT for all high schools beginning in 2021-2022.**

Prerequisites: Algebra I; Biology, Chemistry, IPC or Physics; Introduction to Engineering Design AISD required

Computer Integrated Manufacturing*△ (PLTW) (CIM)

Advanced Honors

Course #: 08902 — ***Credits: 1***

PEIMS #: N1303748 — ***Grades: 11-12***

This course is part of the AISD Project Lead the Way® Pre-Engineering sequence. Manufactured items are part of everyday life, yet most students have not been introduced to the high-tech, innovative nature of modern manufacturing. This course illuminates the opportunities related to understanding manufacturing. At the same time, it teaches students about manufacturing processes, product design, robotics, and automation. Students can earn a virtual manufacturing badge recognized by the National Manufacturing Badge System. This course cannot be entered at mid-term and **cannot be the sole final CTE course for the STEM endorsement. This course is only offered at ATEMS for 2020-2021. It will be offered at The LIFT for all high schools beginning in 2021-2022.**

Prerequisites: None state required; Introduction to Engineering Design and Engineering Science AISD required

STEM Endorsement

*Advanced CTE course

Aerospace Engineering*△ (PLTW) (AERO)

Advanced Honors

Course #: 08982	***Credits: 1***
PEIMS #: N1303745	***Grade: 11-12***

In this course students learn the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles. **This course cannot be the sole final CTE course for the STEM endorsement. This course is only offered at ATEMS for 2020-2021. It will be offered at The LIFT for all high schools beginning in 2021-2022.**

Prerequisites: None state required; Introduction to Engineering and Engineering Science AISD required; Either concurrent enrollment in either AP Physics or Pre-AP Pre-Cal or completion of Pre-Cal or Physics with a minimum final grade of 85 of Pre-AP PreCal with a minimum final grade of 80 recommended by AISD

Engineering Design and Development*△ (PLTW) (EDD)

Advanced Honors

Course #: 08903	***Credits: 1***
PEIMS #: N1303749	***Grade: 12***

The knowledge and skills students acquire throughout PLTW Engineering come together in Engineering Design and Development as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, completing Engineering Design and Development ready to take on any post-secondary program or career. This course cannot be entered at mid-term and **cannot be the sole final CTE course for the STEM endorsement. This course is only offered at ATEMS for 2020-2021. It will be offered at The LIFT for all high schools beginning in 2021-2022.**

Prerequisites: None state required; Engineering Science, Introduction to Engineering Design, and either Computer Integrated Manufacturing or Aerospace Engineering AISD required

Practicum in Science, Technology, Engineering, and Mathematics* (PRCSTEM1)

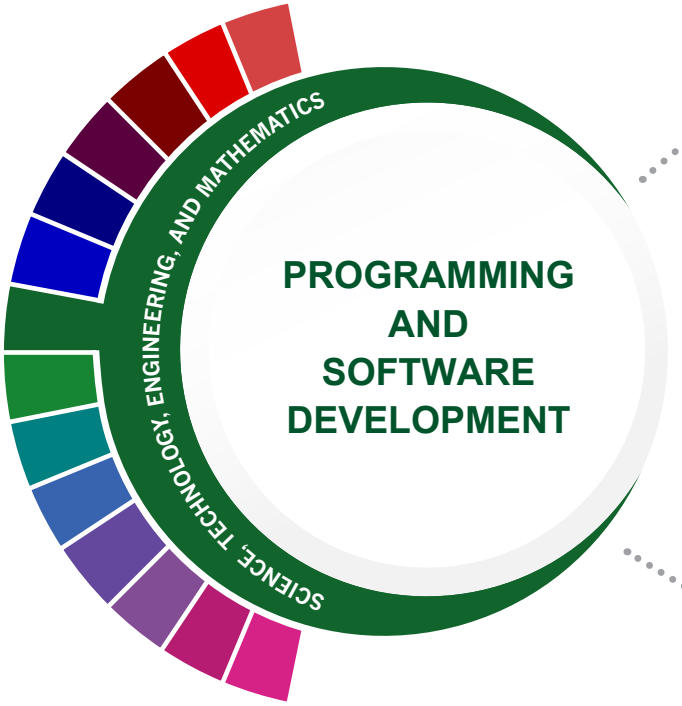
Course #: 08891	***Credits: 2***
PEIMS #: 13037400	***Grade: 12***

This course is recommended for students in grade 12. The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the science, technology, engineering, and mathematics career cluster. **This course is only offered at ATEMS for 2020-2021. It will be offered at The LIFT for all high schools beginning in 2021-2022.**

Prerequisites: Algebra I and Geometry; two STEM career cluster credits recommended

△Approved CTE Innovative Courses cannot be the sole final course in a coherent sequence for endorsement in STEM

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



COURSES

LEVEL 1

Computer Science I

LEVEL 2

Computer Science II
(Beginning 2022-2023)

LEVEL 3

Practicum in Information Technology

Career Preparation I Extended

LEVEL 4

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	Certified Computing Professional	Computer Programmer	Mangement Information Systems, General	
	Cloud Technology Associate Certification	Computer Software Engineer		
	AEM 6 Developer	Computer Science		
	Certifed Software Analyst	Information Science/Studies		

*Includes Level I and Level II Certificates

For more information on postsecondary options for this programs of study, visit TXCTE.org

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Computer Network Architect	$111, 633	1,454	9%
Software Developer, Systems Software	$103, 334	2985	25%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Student organization = SkillsUSA and/or Technology Student Association

Work Based Learning Activities:
Obtain an industry based certification.

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

Successful completion of the Programming and Software Development program of study will fulfill requirements of STEM Endorsement.
Approved Statewide Program of Study - September 2019

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE (Recommended)
Computer Science I	03580200 (1 credit)	PREQ: Algebra I	9-12
Computer Science II	03580300 (1 credit)	PREQ: Algebra I and either Computer Science I or Fundamentals of Computer Science	11-12
Practicum of Information Technology	13028000 (2 credits) 08871	PREQ: A minimum of two high school information technology courses	12
Career Preparation I Extended	12701305 (3 credits) 08958	None	11-12

STEM - Programming and Software Development Program

Computer Science I (TACS1)

Course #: 09181 — ***Credits: 1***

PEIMS #: 03580200 — ***Grades: 9-12***

Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts. **This course will be offered at ATEMS during the 2020-2021 school year and will be available to all high school students beginning in 2021-2022.**

Prerequisites: Algebra I

Computer Science II* (TACS2)

Course #: 09283 — ***Credits: 1***

PEIMS #: 03580300 — ***Grades: 11-12***

Computer Science II will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of computer science through the study of technology operations, systems, and concepts. **AISD plans to offer this course beginning in the 2021-2022 school year.**

Prerequisites: Algebra I and either Computer Science I or Fundamentals of Computer Science

Practicum in Information Technology* (PRACIT1)

Course #: 08871 — ***Credits: 2***

PEIMS #: 13028000 — ***Grade: 12***

Students gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge and skills in the proper use of analytical and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an industry mentor, as an unpaid or paid internship, as part of a capstone project or as career preparation. **This course is only offered at ATEMS.**

Prerequisites: A minimum of two high school information technology (IT) courses required.

Career Preparation I Extended* (EXCAREE1)

Course #: 08958 — ***Credits: 3***

PEIMS #: 12701305 — ***Grades: 11-12***

This course provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and prepares students with a variety of skills for a fast-changing workplace. Career Preparation includes employability skills, job interview techniques, communication skills, financial and budget activities, human relations, as well as job-specific skills related to a student's training station.

Prerequisites: None

△Approved CTE Innovative Courses cannot be the sole final course in a coherent sequence for endorsement in STEM

STEM Endorsement

*Advanced CTE course

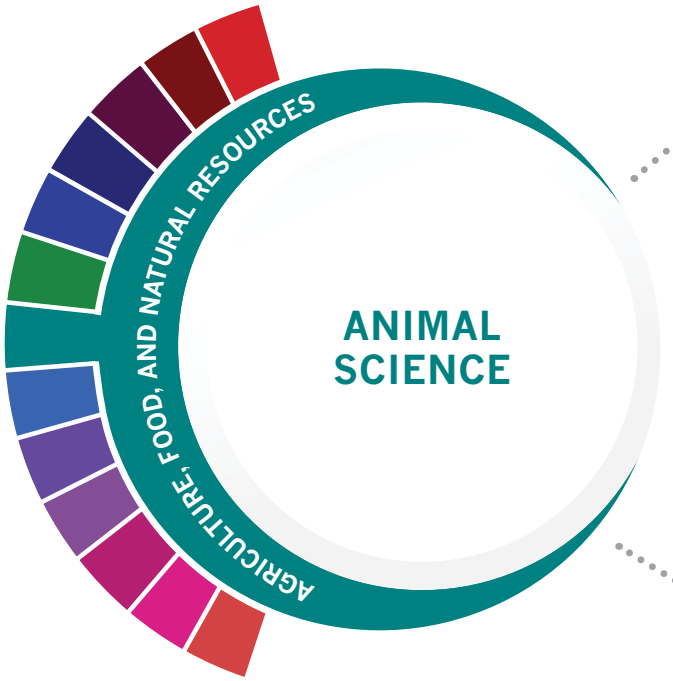
Business and Industry Endorsement

Subject to State Board of Education approval and updates:

A student may earn a Business and Industry Endorsement by completing the following requirements:

1. a coherent sequence of courses for four or more credits in career and technical education (CTE) that includes at least two courses in the same career cluster, including at least one advanced CTE course which includes any course that is the third or higher course in a sequence. The final course in the sequence must be selected from one of the following CTE career clusters:
    - Agriculture, Food and Natural resources
    - Architecture and Construction
    - Arts, Audio/Visual Technology and Communications
    - Business, Marketing and Finance
    - Hospitality and Tourism
    - Information Technology
    - Manufacturing
    - Transportation, Distribution and Logistics; or
2. four English elective courses, including three levels of one of the following areas:
    - Advanced Broadcast Journalism; or
    - Advanced Journalism: Newspaper; or
    - Advanced Journalism: Yearbook
    - Public Speaking; or
    - Debate
3. four technology applications credits
4. a coherent sequence of four credits from 1, 2, or 3.

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



COURSES

LEVEL 1

Principles of Agriculture, Food, and Natural Resources

LEVEL 2

Small Animal Management/Equine Science
(Take as a pair. Offered every other year.)

LEVEL 3

Livestock Production
(Offered every other year.)

LEVEL 4

Veterinary Medical Applications

Practicum in Agriculture, Food, and Natural Resources

POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	Pet Groomer	Food Science and Technology	Animal Sciences	Genetics
	Veterinary Technician	Veterinary Studies	Agriculture	Veterinary Medicine
	Licensed Breeder	Biotechnology Laboratory Technician	Biology	Biological and Physical Sciences
		Biology Technician	Zoology/ Animal Biology	Biological and Biomedical Sciences

Additional industry based certification information is available from the TEA CTE website.

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

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Animal Breeders	$39,135	28	9%
Animal Scientists	$57,533	22	12%
Medical Scientists	$63,898	435	27%
Veterinarians	$93,496	294	24%
Zoologists and Wildlife Biologists	$67,309	45	32%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Student organization = Texas FFA

Work Based Learning Activities:
Agri-Science Fair
4H
Volunteer at a local farm or veterinary office.

The Agriculture, Food, and Natural Resources (AFNR) Career Cluster® focuses on the essential elements of life—food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist.

Successful completion of the Animal Science program of study will fulfill requirements of the Business and Industry Endorsement.
Approved Statewide Program of Study - September 2019

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE (Recommended)
Principles of Agriculture, Food, and Natural Resources	13000200 (1 credit) 08800	None	9-12
Small Animal Management	13000400 (0.5 credit)	None	10-12
Equine Science	13000500 (0.5 credit)	None	10-12
Livestock Production	13000300 (1 credit) 08714	None	10-12
Veterinary Medical Applications	13000600 (1 credit) 08941	PREQ: Equine Science, Small Animal Management, or Livestock Production	11-12
Practicum in Agriculture, Food, and Natural Resources	13002500 (2 credits) 08809	None	11-12

Agriculture, Food & Natural Resources - Animal Science Program

Principles of Agriculture, Food and Natural Resources (PRINAFNR)

Course #: 08800 ***Credits: 1***

PEIMS #: 13000200 ***Grades: 9-12***

This course will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices and expectations. This course may be taken to satisfy the speech credit.

Prerequisites: None

Small Animal Management (SMANIMGT)

Course #: 08957 ***Credits: ½***

PEIMS #: 13000400 ***Grades: 10-12***

In this course, students will acquire knowledge and skills related to small animals and the small animal management industry. Small Animal Management may address topics related to small mammals such as dogs and cats, amphibians, reptiles, and birds. **Course should be paired with Equine Science.**

Prerequisites: None

Equine Science (EQUINSCI)

Course #: 08802 ***Credits: ½***

PEIMS #: 13000500 ***Grades: 10-12***

In this course, students will acquire knowledge and skills related to equine animal systems and the equine industry. Equine Science may address topics related to horses, donkeys, and mules. **Course should be paired with Small Animal Management.**

Prerequisites: None

Livestock Production* (LIVEPROD)

Course #: 08714 ***Credits: 1***

PEIMS #: 13000300 ***Grades: 10-12***

This course is designed to develop knowledge and skills related to livestock and the livestock production industry. Livestock Production may address topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry.

Prerequisites: None

Veterinary Medical Applications* (VETMEDAP)

Course #:08941 ***Credits: 1***

PEIMS #: 13000600 ***Grades: 11-12***

This course covers topics relating to veterinary practices, including practices for large and small animal species.

Prerequisites: Equine Science, Small Animal Management or Livestock Production

Practicum in Agriculture, Food and Natural Resources* (First Time Taken) (PRACAFNR)

Course #: 08809 ***Credits: 2***

PEIMS #: 13002500 ***Grades: 11-12***

Practicum in Agriculture, Food and Natural Resources* (Second Time Taken)(PRACAFNR2)

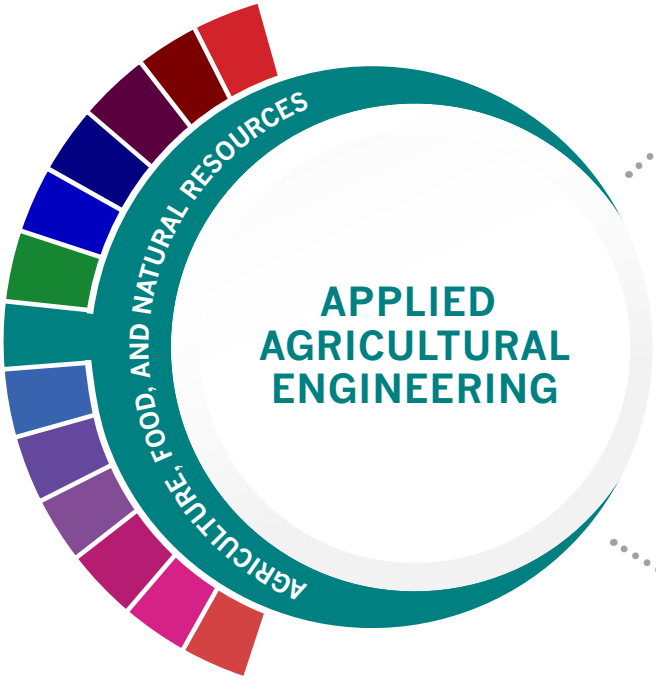
Course #:08810 ***Credits: 2***

PEIMS #: 13002510 ***Grades: 12***

This course is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. To prepare for careers in agriculture, food and natural resources, students must attain academic skills and knowledge, acquire technical knowledge and skills related to the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings. **A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills.**

Prerequisites: Minimum age of 16 at time of enrollment, application and teacher approval; a minimum of one credit in Ag, Food & Natural Resources recommended

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



COURSES

LEVEL 1

Principles of Agriculture, Food, and Natural Resources

LEVEL 2

Agricultural Mechanics and Metal Technologies
(Offered every other year.)

LEVEL 3

Agricultural Structures Design and Fabrication
(Offered every other year.)

LEVEL 4

Practicum in Agriculture, Food, and Natural Resources

POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
AWS D1.1 or D9.1 (Ag Mechanics)	Certified Professional Agronomist	Heavy Equipment Maintenance Technology/ Technician	Agricultural Engineering	
NCCER Core Curriculum (Ag Mechanics)	Certified Reliability Engineer	Agricultural Mechanization, General	Agricultural Mechanization, General	
	Certified Irrigation Designer	Small Engine Mechanics and Repair Technology/ Technician		
	Fluid Power Mobile Hydraulic Mechanic	Welding Technology/ Welder		

Additional industry based certification information is available from the TEA CTE website.

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

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Outdoor Power Equipment and Other Small Engine Mechanics	$32,406	366	16%
Welders	$41,350	6,171	9%
Farm Equipment Mechanics and Service Technicians	$39,915	304	17%
Mobile Heavy Equipment Mechanics	$47,299	1,627	16%
Agricultural Engineers	$64,792	9	13%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Student organization = Texas FFA
Tour a farm products or machinery plant.

Work Based Learning Activities:
Earn a welding certification.
Intern at a farm products or machinery plant.

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

Successful completion of Applied Agricultural Engineering program of study will fulfill requirements of a Business and Industry Endorsement.
Approved Statewide Program of Study - September 2019

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE (Recommended)
Principles of Agriculture, Food, and Natural Resources	13000200 (1 credit) 08800	None	9-12
Agricultural Mechanics and Metal Technologies	13002200 (1 credit) 08807	None (Recommended: Principles of Agriculture, Food, and Natural Resources)	10-12
Agricultural Structures Design and Fabrications	13002300 (1 credit) 08808	None (Recommended: Agricultural Mechanics and Metal Technologies)	10-12
Practicum in Agriculture, Food, and Natural Resources	13002500 (2 credits) 08809	None	11-12

Agriculture, Food & Natural Resources – Applied Agricultural Engineering Program

Principles of Agriculture, Food and Natural Resources (PRINAFNR)

Course #: 08800 ***Credits: 1***

PEIMS #: 13000200 ***Grades: 9-12***

This course will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices and expectations. This course may be taken to satisfy the speech credit.

Prerequisites: None

Agricultural Mechanics and Metal Technologies (AGMECHMT)

Course #: 08807 ***Credits: 1***

PEIMS #: 13002200 ***Grades: 10-12***

This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tools operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques.

Prerequisites: None; Principles of Agriculture, Food and Natural Resources recommended

Agricultural Structures Design and Fabrication* (AGSDF)

Course #: 08808 ***Credits: 1***

PEIMS #: 13002300 ***Grades: 10-12***

In this course students will explore career opportunities, entry requirements, and industry expectations. This course cannot be entered at mid-term.

Prerequisites: None; Ag Mechanics and Metal Technologies recommended

Practicum & Extended Practicum in Agriculture, Food and Natural Resources* (First time taken) (EXPRAFNR1)

Course #: 08944 ***Credits: 3***

PEIMS #: 13002505 ***Grades: 11-12***

Practicum & Extended Practicum in Agriculture, Food and Natural Resources* (Second time taken) (EXPRAFNR2)

Course #: 08945 ***Credits: 3***

PEIMS #: 13002515 ***Grades: 12***

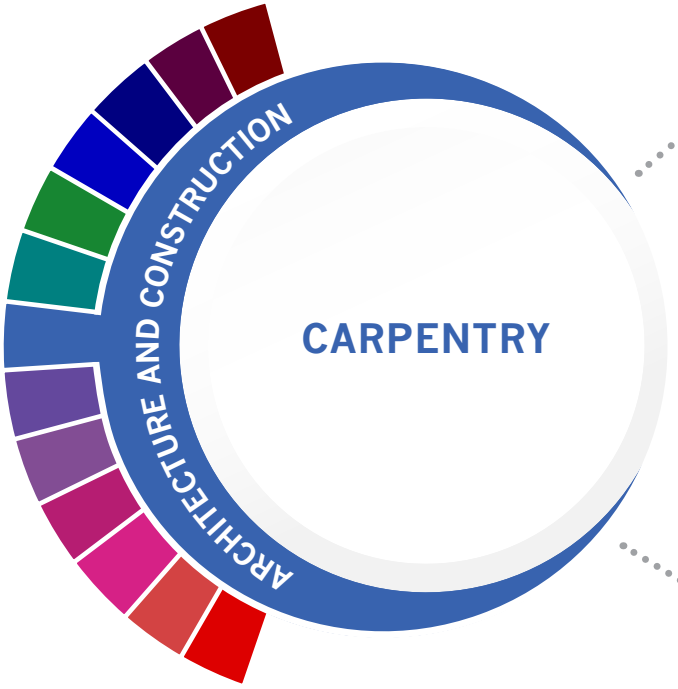
This course is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. To prepare for careers in agriculture, food and natural resources, students must attain academic skills and knowledge, acquire technical knowledge and skills related to the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings. **A student may repeat this course once for credit provided that the student is experiencing different aspects of the industry and demonstrating proficiency in additional and more advanced knowledge and skills.**

Prerequisites: Minimum age of 16 at time of enrollment, application and teacher approval; a minimum of one credit in Ag, Food & Natural Resources recommended

Business and Industry Endorsement

*Advanced CTE course

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



COURSES

LEVEL 1

Principles of Construction

LEVEL 2

Construction Technology I

LEVEL 3

Construction Technology II

Mill and Cabinetmaking Technology
(Beginning 2021-2022)

LEVEL 4

Practicum in Construction Technology

Career Preparation I Extended

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
NCCER Core Curriculum (Principles of Construction)	Certified Lead Carpenter	Carpentry/ Carpenter	Construction Science	Construction Management
NCCER Carpentry, Level 1 (Construction Technology I)	Certified Installer	Industrial Mechanics and Maintenance Technology		
	Certified Door Consultant			
	Fluid Power Connector and Conductor			

Additional industry based certification information is available from the TEA CTE website.

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

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Carpenters	$35,922	5,031	26%
Cost Estimators	$63,939	2,239	21%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Student organization = SkillsUSA
Shadow a carpenter or millwright.

Work Based Learning Activities:
Obtain an NCCER certification.

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

Successful completion of the Carpentry program of study will fulfill requirements of the Business and Industry Endorsement.
Approved Statewide Program of Study - September 2019

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE (Recommended)
Principles of Construction	13004220 (1 credit) 08702	None	9-12
Construction Technology I	13005100 (2 credits) 08812	None (Recommended: Principles of Construction)	10-12
Construction Technology II	13005200 (2 credits) 08813	PREQ: Construction Technology I	11-12
Mill and Cabinetmaking Technology (Beginning 2021-2022)	13005300 (2 credits)	None (Recommended: Principles of Construction)	10-12
Practicum in Construction Technology	13005250 (2 credits) 08894	PREQ: Construction Technology II, Electrical Technology II, or Mill and Cabinetmaking Technology	12
Career Preparation I Extended	12701305 (3 credits) 08958	None	11-12

Architecture and Construction - Carpentry Program

Principles of Construction (PRINCON)

Course #: 08702 — ***Credits: 1***

PEIMS #: 13004220 — ***Grades: 9-12***

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

Prerequisites: None

Construction Technology I (CONTECH1)

Course #: 08812 — ***Credits: 2***

PEIMS #: 13005100 — ***Grades: 10-12***

In this course students will gain knowledge and skills needed to enter the workforce as carpenters or building maintenance supervisors or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in safety, tool usage, building materials, codes, and framing. For safety considerations, limiting course enrollment to 15 students is recommended. **This course cannot be entered at mid-term.**

Prerequisites: None; Principles of Construction recommended

Construction Technology II* (CONTECH 2)

Course #: 08813 — ***Credits: 2***

PEIMS #: 13005200 — ***Grades: 11-12***

In this course students will gain advanced knowledge and skills needed to enter the workforce as carpenters, building maintenance technicians, or supervisors or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will build on the knowledge base from Construction Technology I and are introduced to exterior and interior finish-out skills. For safety considerations, limiting course enrollment to 15 students is recommended. **This course cannot be entered at mid-term.**

Prerequisites: Construction Technology I

Mill and Cabinetmaking Technology* (MACTECH)

Course #: 08960 — ***Credits: 2***

PEIMS #: 13005300 — ***Grades: 10-12***

In this course, students will gain knowledge and skills needed to enter the workforce in mill work and cabinet manufacturing and installation. Students may also apply these skills to professions in carpentry or building maintenance supervision or use the skills as a foundation for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in cabinet design, tool usage, jointing methods, finishes, and industry-level practices such as numerical and computer-control production methods. **AISD plans to offer this course beginning in the 2021-2022 school year.**

Prerequisites: None; Principles of Construction recommended

Practicum in Construction Technology* (PRACCM1)

Course #: 08818 — ***Credits: 2***

PEIMS #: 13005250 — ***Grades: 12***

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

Prerequisites: Construction Technology II, Electrical Technology II, or Mill and Cabinetmaking Technology

Career Preparation I Extended* (EXCAREE1)

Course #: 08958 — ***Credits: 3***

PEIMS #: 12701305 — ***Grades: 11-12***

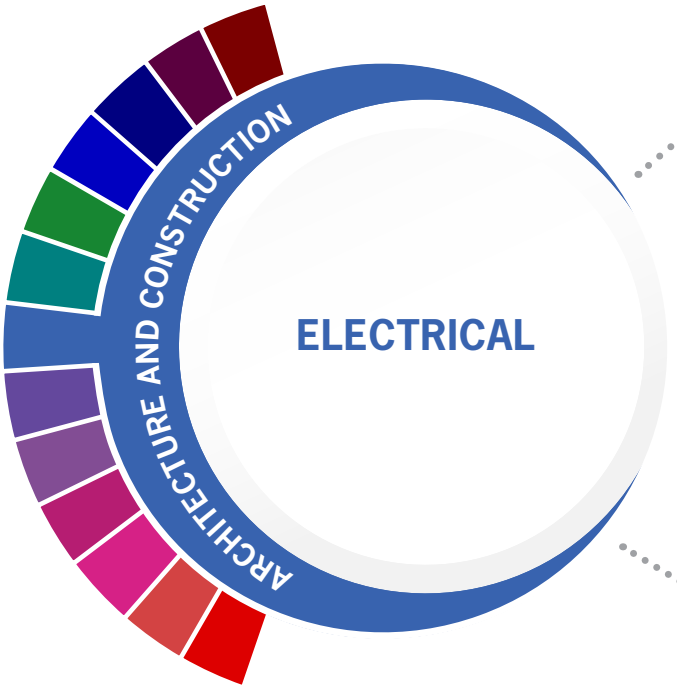
This course provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and prepares students with a variety of skills for a fast-changing workplace. Career Preparation includes employability skills, job interview techniques, communication skills, financial and budget activities, human relations, as well as job-specific skills related to a student's training station.

Prerequisites: None

Business and Industry Endorsement

*Advanced CTE course

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



COURSES

LEVEL 1

Principles of Construction

LEVEL 2

Electrical Technology I

LEVEL 3

Electrical Technology II

LEVEL 4

Practicum in Construction Technology

Career Preparation I Extended

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
NCCER Core Curriculum (Principles of Construction)	Electrical Plans Examiner	Electrician	Construction Science	Construction Management
NCCER Electrical Level 1 (Electrical Technology I)	Certified Electrical Inspector - Master	Communications Systems Installation and Repair Technology		
NCCER Electrical Level 2 (Electrical Technology II)	Fiber Optics Technician - Outside Plant			
OSHA 30	Certification in Fire Alarm Systems - Level 1			

Additional industry based certification information is available from the TEA CTE website.

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

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Electrical Linemen	$64,937	309	9%
Electricians	$44,013	8,460	21%
Electrical and Electronics Installers	$58,178	195	14%
Security and Fire Alarm Installers	$43,638	1,112	22%
Telecommunication Line Installers and Repairers	$49,150	1,228	10%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Student organization = SkillsUSA
Shadow an electrician or fiber optics line installer.

Work Based Learning Activities:
Intern or shadow an electrician.

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

Successful completion of the Electrical Program of Study will fulfill requirements of a Business and Industry Endorsement.
Approved Statewide Program of Study - September 2019

01-06-2020

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE (Recommended)
Principles of Construction	13004220 (1 credit) 08702	None	9-12
Electrical Technology I	13005600 (1 credit) 08814	None (Recommended: Principles of Construction)	10-12
Electrical Technology II	13005700 (2 credit) 08815	PREQ: Electrical Technology I	11-12
Practicum in Construction Technology	13005250 (2 credits) 08894	PREQ: Construction Technology II, Electrical Technology II, or Mill and Cabinetmaking Technology	12
Career Preparation I Extended	12701305 (3 credits) 08958	None	11-12

Architecture and Construction - Electrical Program

Principles of Construction (PRINCON)

Course #: 08702 ***Credits: 1***

PEIMS #: 13004220 ***Grades: 9-12***

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

Prerequisites: None

Electrical Technology I (ELECTEC1)

Course #: 08814 ***Credits: 1***

PEIMS #: 13005600 ***Grades: 10-12***

In this course students will gain knowledge and skills needed to enter the workforce as an electrician or building maintenance supervisor, prepare for a postsecondary degree in a specified field on construction or construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, and the reading of electrical drawings, schematics, and specifications. **This course is offered on the Abilene High School campus but is open to both AHS and CHS students. This course cannot be entered at mid-term.**

Prerequisites: Principles of Construction recommended

Electrical Technology II* (ELECTEC2)

Course #: 08815 ***Credits: 2***

PEIMS #: 13005700 ***Grades: 11-12***

In this course students will gain advanced knowledge and skills needed to enter the workforce as an electrician, a building maintenance technician, or a supervisor; prepare for a postsecondary degree in a specified field of construction or construction management; or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, alternating current and direct current motors, conductor installation, installation of electrical services, and electric lighting installation. **This course is offered on the Abilene High School campus but is open to all AHS and CHS students. This course cannot be entered at mid-term.**

Prerequisites: Electrical Technology I

Practicum in Construction Technology* (PRACCM1)

Course #: 08818 ***Credits: 2***

PEIMS #: 13005250 ***Grades: 12***

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

Prerequisites: Construction Technology II, Electrical Technology II, or Mill and Cabinetmaking Technology

Career Preparation I Extended* (EXCAREE1)

Course #: 08958 ***Credits: 3***

PEIMS #: 12701305 ***Grades: 11-12***

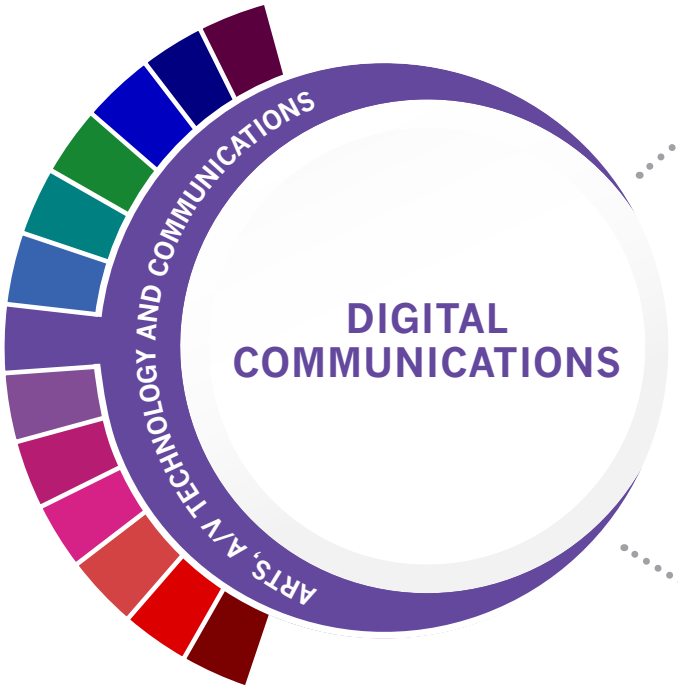
This course provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and prepares students with a variety of skills for a fast-changing workplace. Career Preparation includes employability skills, job interview techniques, communication skills, financial and budget activities, human relations, as well as job-specific skills related to a student's training station.

Prerequisites: None

Business and Industry Endorsement

*Advanced CTE course

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



COURSES

LEVEL 1

Audio/Video Production I
(Beginning 2021-2022)
(or)
Audio/Video Production I with Lab
(Beginning 2021-2022)

LEVEL 2

Digital Audio Technology I
(Beginning 2022-2023)

LEVEL 3

Audio/Video Production II
(Beginning 2023-2024)
(or)
Audio/Video Production II with Lab
(Beginning 2023-2024)

Digital Audio Technology II
(Beginning 2023-2024)

LEVEL 4

Practicum in Audio/Video Production
(Beginning 2024-2025)

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Adobe Certified Associate Certifications	Certified Video Engineer	Recording Arts Technology/Technician		Communications Technology/ Technician
	Commercial Audio Technician	Cinematography and Film/ Video Production		
	Certified AM Directional Specialist	Radio and Television Broadcasting Technology/ Technician	Radio and Television	
	Certified Broadcast Radio Engineer	Music Technology	Agricultural Communication/ Journalism	

Additional industry based certification information is available from the TEA CTE website.

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

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Sound Engineering Technicians	$39,562	79	27%
Camera Operators Television, Video and Motion Picture	$50,024	129	9%
Audio and Video Equipment Technicians	$40,581	757	29%
Film and Video Editors	$47,382	118	23%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Shadow a production team

Work Based Learning Activities:
Intern at a local television station or video production company

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

Successful completion of the Digital Communications program of study will fulfill requirements of a Business and Industry Endorsement.
Approved Statewide Program of Study - September 2019

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE (Recommended)
Audio/Video Production I	13008500 (1 credit) 09289	None	9-12
Audio/Video Production I with Lab	13008510 (2 credits)	None	9-12
Digital Audio Technology I	13009950 (1 credit)	None (Recommended: Audio/Video Production I)	10-12
Audio/Video Production II	13008600 (1 credit)	PREQ: Audio/Video Production I	10-12
Audio/Video Production II with Lab	13008610 (2 credits)	PREQ: Audio/Video Production I	10-12
Digital Audio Technology II	13009960 (1 credit)	PREQ: Digital Audio Technology I	10-12
Practicum in Audio/Video Production	13008700 (2 credits)	PREQ: Audio/Video Production II with Lab	11-12

Arts, A/V Technology & Communications – Digital Communications Program

Audio/Video Production I (AVPROD1)

Course #: 09289 ***Credits: 1***

PEIMS #: 13008500 ***Grades: 9-12***

In addition to developing technical knowledge and skills, students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video products. **AISD plans to offer this course beginning in the 2021-2022 school year.**

Prerequisites: None

Audio/Video Production I with Lab (AVPLAB1)

Course #: 09291 ***Credits: 2***

PEIMS #: 13008510 ***Grades: 9-12***

This is the Audio/Video Production I course with a lab included. The lab provides students the opportunity to work more extensively with the production and post-production process. **AISD plans to offer this course beginning in the 2021-2022 school year.**

Prerequisites: None

Digital Audio Technology I (DATECH1)

Course #: 08964 ***Credits: 1***

PEIMS #: 13009950 ***Grades: 10-12***

Digital Audio Technology I was designed to provide students interested in audio production careers such as audio for radio and television broadcasting, audio for video and film, audio for animation and game design, music production and live sound, and additional opportunities and skill sets. Students will be expected to develop an understanding of the audio industry with a technical emphasis on production and critical-listening skills. **AISD plans to offer this course beginning in the 2022-2023 school year.**

Prerequisites: None

Audio/Video Production II* (AVPROD2)

Course #: 09292 ***Credits: 1***

PEIMS #: 13008600 ***Grades: 10-12***

Building upon the concepts taught in Audio/Video Production, in addition to developing advanced knowledge and skills, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and postproduction products. This course may be implemented in an audio format or a format with both audio and video. **AISD plans to offer this course beginning in the 2023-2024 school year.**

Prerequisites: Audio/Video Production I

Audio/Video Production II with Lab* (AVPLAB2)

Course #: 09293 ***Credits: 2***

PEIMS #: 13008610 ***Grades: 10-12***

This is the Audio/Video Production II course with a lab included. The lab provides students the opportunity to work more extensively with the production and post-production process. **AISD plans to offer this course beginning in the 2023-2024 school year.**

Prerequisites: Audio/Video Production I

Digital Audio Technology II* (DATECH2)

Course #: 08965 ***Credits:***

PEIMS #: 13009960 ***Grades: 10-12***

Digital Audio Technology II was designed to provide additional opportunities and skill sets for students interested in audio production careers such as audio for radio and television broadcasting, audio for video and film, audio for animation and game design, and music production and live sound. Students will be expected to develop an understanding of the audio industry with a technical emphasis on production and critical-listening skills. **AISD plans to offer this course beginning in the 2023-2024 school year.**

Prerequisites: Digital Audio Technology I

Practicum in Audio/Video Production* (PRACAVP1)

Course #: 08966 ***Credits: 2***

PEIMS #: PRACAVP1 ***Grades: 11-12***

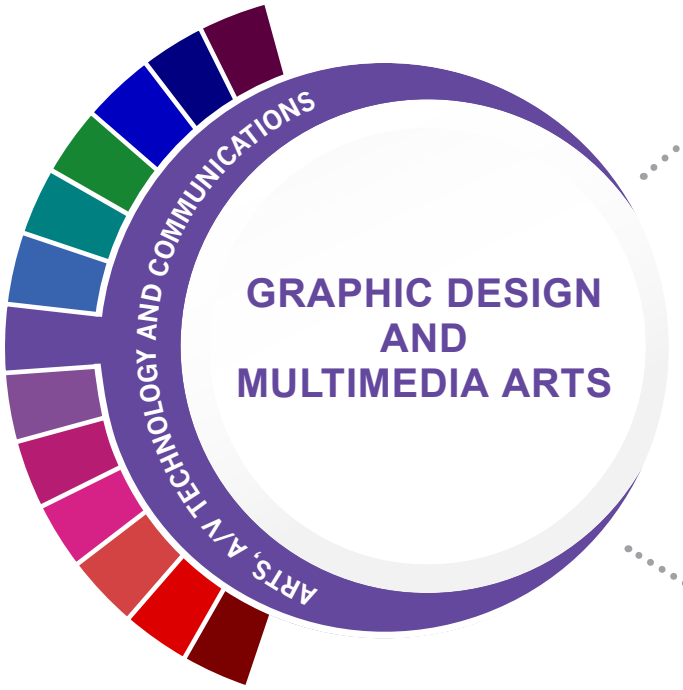
Building upon the concepts taught in Audio/Video Production II and its corequisite Audio/Video Production II Lab, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production audio and video products in a professional environment. This course may be implemented in an advanced audio/video or audio format. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities **AISD plans to offer this course beginning in the 2024-2025 school year.**

Prerequisites: Audio/Video Production II with Lab

Business and Industry Endorsement

*Advanced CTE course

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



COURSES

LEVEL 1

Digital Media

Video Game Design

LEVEL 2

Animation I
(Beginning 2021-2022)

Graphic Design and Illustration I
(Beginning 2021-2022)

LEVEL 3

Animation II with Lab
(Beginning 2022-2023)

Graphic Design and Illustration II with Lab
(Beginning 2022-2023)

LEVEL 4

Practicum in Animation
(Beginning 2023-2024)

Practicum in Graphic Design and Illustration
(Beginning 2023-2024)

Career Preparation I Extended

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Adobe Certified Associate Certifications	Certified Digital Designer	Animation, Interactive Technology, Video Graphics and Special Effects		
Adobe Certified Expert Certifications	WOW Certified Web Designer Apprentice	Graphic Design		
	Adobe Suite Certifications	Game and Interactive Media Design		Intermedia/ Multimedia

Additional industry based certification information is available from the TEA CTE website.

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

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Graphic Designers	$44,824	1,433	15%
Multimedia Artists and Animators	$67,392	186	21%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Join a website development group.
Visit "learn to code" educational websites.

Work Based Learning Activities:
Intern with a multimedia or animation studio.
Obtain a certificate in graphic design.

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

Successful completion of the Graphic Design & Multimedia Arts program of study will fulfill requirements of a Business and Industry Endorsement. Approved Statewide Program of Study - September 2019

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE (Recommended)
Digital Media	13027800 (1 credit) 08869	None	9-12
Video Game Design	13009970 (1 credit)	None	9-12
Animation I	13008300 (1 credit)	None	10-12
Graphic Design and Illustration I	13008800 (1 credit)	None	10-12
Animation II with Lab	13008410 (2 credits)	PREQ: Animation I	11-12
Graphic Design and Illustration II with Lab	13008910 (2 credits)	PREQ: Graphic Design and Illustration I	10-12
Practicum in Animation	13008450 (2 credits)	PREQ: Animation II with Lab	11-12
Practicum in Graphic Design and Illustration	13009000 (2 credits)	PREQ: Graphic Design and Illustration II with Lab	10-12
Career Preparation I Extended	12701305 (3 credits) 08958	None	11-12

Digital Media (DIMEDIA)

Course #: 08869 ***Credits: 1***

PEIMS #: 13027800 ***Grades: 9-12***

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

Prerequisites: None

Video Game Design (VIDGD)

Course #: 08968 ***Credits: 1***

PEIMS #: 13009970 ***Grades: 9-12***

Video Game Design will allow students to explore one of the largest industries in the global marketplace and the new emerging careers it provides in the field of technology. Students will learn gaming, computerized gaming, evolution of gaming, artistic aspects of perspective, design, animation, technical concepts of collision theory, and programming logic. Students will participate in a simulation of a real video game design team while developing technical proficiency in constructing an original game design.

Prerequisites: None

Animation I (ANIMAT1)

Course #: 08969 ***Credits: 1***

PEIMS #: 13008300 ***Grades: 10-12***

In addition to developing technical knowledge and skills in animation, students will be expected to develop an understanding of the history and techniques of the animation industry. **AISD plans to offer this course beginning in the 2021-2022 school year.**

Prerequisites: None

Graphic Design and Illustration I (GRAPHDI1)

Course #: 08819 ***Credits: 1***

PEIMS #: 13008800 ***Grades: 10-12***

In addition to developing knowledge and skills in graphic design and illustration, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design. **AISD plans to offer this course beginning in the 2021-2022 school year.**

Prerequisites: None

Animation II with Lab* (ANILAB2)

Course #: 08976 ***Credits: 1***

PEIMS #: 13008410 ***Grades: 11-12***

In addition to developing advanced knowledge and skills in animation, students will be expected to create two- and three-dimensional animations. The instruction also assists students seeking careers in the animation industry. Note that this course includes a lab. **AISD plans to offer this course beginning in the 2022-2023 school year.**

Prerequisites: Animation I

Graphic Design and Illustration II with Lab* (GRDLAB2)

Course #: 08892 ***Credits: 2***

PEIMS #: 13008910 ***Grades: 10-12***

Students will be expected to develop an advanced understanding of graphic design and illustration and the associated industry. Students will focus on content knowledge and skills. **AISD plans to offer this course beginning in the 2022-2023 school year.**

Prerequisites: Graphic Design and Illustration I

Practicum in Animation* (PRACANI1)

Course #: 08977 ***Credits: 2***

PEIMS #: 13008450 ***Grades 11-12:***

Building upon the concepts taught in Animation II with Lab, in addition to developing advanced technical knowledge and skills, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production animation products in a professional environment. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. **AISD plans to offer this course beginning in the 2023-2024 school year.**

Prerequisites: Animation II with Lab

Practicum in Graphic Design and Illustration* (PRACGRD1)

Course #: 08906 ***Credits: 2***

PEIMS #: 13009000 ***Grades 10-12:***

In addition to developing technical knowledge and skills, students will be expected to develop a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. **AISD plans to offer this course beginning in the 2023-2024 school year.**

Prerequisites: Graphic Design and Illustration II with Lab

Career Preparation I Extended* (EXCAREE1)

Course #: 08958 ***Credits: 3***

PEIMS #: 12701305 ***Grades: 11-12***

This course provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and prepares students with a variety of skills for a fast-changing workplace. Career Preparation includes employability skills, job interview techniques, communication skills, financial and budget activities, human relations, as well as job-specific skills related to a student's training station.

Prerequisites: None

Business and Industry Endorsement

*Advanced CTE course

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

COURSES

LEVEL 1

Business Information Management I

Money Matters

Principles of Business, Marketing, and Finance

LEVEL 2

Accounting I

Financial Mathematics

LEVEL 3

Accounting II

LEVEL 4

Career Preparation I Extended

POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Microsoft Office Specialist - Word (Beginning 2020-2021)	Certified Management Accountant	Real Estate	Accounting	Financial Accounting
Microsoft Office Specialist - Excel (Beginning 2020-2021)	Certified Internal Auditor	Financial, General		Business Administration
	Certified Income Specialist	Financial Planning and Services		Financial Planning
	Certified Public Accountant	Certified Income Specialist		

Additional industry based certification information is available from the TEA CTE website.

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

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Accountants and Auditors	$71,469	14,436	22%
Loan Officers	$68,598	2,419	19%
Personal Financial Advisors	$86,965	1,861	52%
Administrative Service Managers	$96,138	2,277	21%
Insurance Underwriters	$66,206	594	14%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Student organization = Business Professionals of America (BPA)

Work Based Learning Activities:
Internship with local accounting firm.
Microsoft Office Specialist (MOS) certifications

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.

Successful completion of the Accounting & Financial Services program of study will fulfill requirements of the Business and Industry Endorsement.
Approved Statewide Program of Study - September 2019

COURSE INFORMATION

COURSE NAME	SERVICE ID	**PREREQUISITES** (PREQ) **COREQUISITES** (CREQ)	GRADE (Recommended)
Principles of Business, Marketing, and Finance	13011200 (1 credit) 08917	None	9-11
Money Matters	13016200 (1 credit) 08931	None (Recommended: Principles of Business, Marketing, and Finance)	9-12
Business Information Management I	13011400 (1 credit) 08826	None	9-12
Accounting I	13016600 (1 credit)	None (Recommended: Principles of Business, Marketing, and Finance)	10-12
Financial Mathematics	13018000 (1 credit) 08939	PREQ: Algebra I	10-12
Accounting II	13016700 (1 credit) 08839	PREQ: Accounting I	11-12
Career Preparation I Extended	12701305 (3 credits) 08958	None	11-12

Business, Marketing, and Finance – Accounting and Financial Services Program

Business Information Management I (BUSIM1)

Course #: 08826 ***Credits: 1***

PEIMS #: 13011400 ***Grades: 9-12***

In this course students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software. This course cannot be entered at mid-term**. This course is offered only at the four middle school campuses and Woodson.**

Prerequisites: None

Money Matters (MONEYM)

Course #08931 ***Credits: 1***

PEIMS #: 13016200 ***Grades: 9-12***

In this course, students will investigate money management from a personal financial perspective. Students will apply critical-thinking skills necessary to establish short-term and long-term financial goals. Students will examine various methods of achieving short-term and long-term financial goals through various methods such as investing, tax planning, asset allocating, risk management, retirement planning, and estate planning. This course may be entered at semester.

Prerequisites: None; Principles of Business, Marketing, and Finance recommended

Principles of Business, Marketing, and Finance (PRINBMF)

Course #: 08917 ***Credits: 1***

PEIMS #: 13011200 ***Grades: 9-11***

In this course students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. The course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing, and finance.

Prerequisites: None

Financial Mathematics (FINMATH)

Course #: 08939 ***Credits: 1***

PEIMS #: 13018000 ***Grades: 10-12***

This course is a course about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors.

Prerequisites: Algebra 1

Accounting I (ACCOUNT1)

Course #: 08838 ***Credits: 1***

PEIMS #: 13016600 ***Grades: 10-12***

Students will investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in the process or recording, classifying, summarizing, analyzing, and communicating accounting information. Students will formulate and interpret financial information for use in management decision making. This course cannot be entered at mid-term.

Prerequisites: None; Principles of Business, Marketing, and Finance recommended

Accounting II *(ACCOUNT2)

Course #: 08839 ***Credits: 1***

PEIMS #: 13016700 ***Grades: 11-12***

Students will continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in various managerial and cost accounting activities. Students will formulate and interpret financial information for use in management decision making. Students will use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real-world situations to maintain, monitor, control, and plan the use of financial records. This course cannot be entered at mid-term.

Prerequisites: Accounting I

Career Preparation I Extended* (EXCAREE1)

Course #: 08958 ***Credits: 3***

PEIMS #: 12701305 ***Grades: 11-12***

This course provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and prepares students with a variety of skills for a fast-changing workplace. Career Preparation includes employability skills, job interview techniques, communication skills, financial and budget activities, human relations, as well as job-specific skills related to a student's training station.

Prerequisites: None

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

COURSES

LEVEL 1

Business Information Management I

Principles of Business, Marketing, and Finance

LEVEL 2

Business Management

LEVEL 3

Statistics and Business Decision Making

LEVEL 4

Career Preparation I Extended

POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Microsoft Office Specialist - Word (Beginning 2020-2021)	Certified Records Manager	Business Administration		
Microsoft Office Specialist - Excel (Beginning 2020-2021)	Certified Facility Manager	Business/ Commerce		Business Management
	Certified Commercial Contracts Manager	Public Administration		
	Teradata 14 Basics/ Certified Technical Specialist	Business Management	Management Science	

Additional industry based certification information is available from the TEA CTE website.

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

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Administrative Service Managers	$96,138	2,277	21%
Management Analysts	$87,651	4,706	32%
General and Operations Managers	$107,640	18,679	20%
Operations Research Analysts	$78,083	1,128	38%
Supervisors of Administrative Support Workers	$57,616	14,982	20%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Student organization = Business Professionals of America (BPA)

Work Based Learning Activities:
Internship with local business or chamber of commerce.

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.

Successful completion of the Business Management program of study will fulfill requirements of the Business and Industry Endorsement.
Approved Statewide Program of Study - September 2019

12-12-2019

COURSE INFORMATION

COURSE NAME	SERVICE ID	**PREREQUISITES** (PREQ) **COREQUISITES** (CREQ)	GRADE (Recommended)
Business Information Management I	13011400 (1 credit) 08826	None	9-12
Principles of Business, Marketing, and Finance	13011200 (1 credit) 08917	None	9-11
Business Management	13012100 (1 credit) 08830	None	10-12
Statistics and Business Decision Making	13016900 (1 credit) 08840	PREQ: Algebra II	11-12
Career Preparation I Extended	12701305 (3 credits) 08958	None	11-12

Business, Marketing, and Finance – Business Management Program

Business Information Management I (BUSIM1)

Course #: 08826 ***Credits: 1***

PEIMS #: 13011400 ***Grades: 9-12***

In this course students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software. This course cannot be entered at mid-term**. This course is offered only at the four middle school campuses and Woodson.**

Prerequisites: None

Principles of Business, Marketing, and Finance (PRINBMF)

Course #: 08917 ***Credits: 1***

PEIMS #: 13011200 ***Grades: 9-11***

In this course students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. The course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing, and finance.

Prerequisites: None

Business Management* (BUSMGT)

Course #: 08830 ***Credits: 1***

PEIMS #: 13012100 ***Grades: 10-12***

Business Management is designed to familiarize students with the concepts related to business management as well as the functions of management, including planning, organizing, staffing, leading, and controlling. Students will also demonstrate interpersonal and project-management skills. This course cannot be entered at mid-term.

Prerequisites: None

Statistics and Business Decision Making* (STATSBDM)

Course #: 08840 ***Credits: 1***

PEIMS #: 13016900 ***Grades: 11-12***

This course in an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions and will determine appropriateness of methods used to collect data to ensure conclusions are valid.

Prerequisites: Algebra II

Career Preparation I Extended* (EXCAREE1)

Course #: 08958 ***Credits: 3***

PEIMS #: 12701305 ***Grades: 11-12***

This course provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and prepares students with a variety of skills for a fast-changing workplace. Career Preparation includes employability skills, job interview techniques, communication skills, financial and budget activities, human relations, as well as job-specific skills related to a student's training station.

Prerequisites: None

Business and Industry Endorsement

*Advanced CTE course

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

COURSES

LEVEL 1

Introduction to Culinary Arts

Principles of Hospitality and Tourism

LEVEL 2

Culinary Arts

LEVEL 3

Advanced Culinary Arts

LEVEL 4

Practicum in Culinary Arts Career Preparation I Extended

POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
ServSafe Manager	Certified Chef	Hotel and Restaurant Management		
	Foodservice Management Professional	Restaurant Culinary and Catering Management	Food Service Systems Administration/Management	
	Comprehensive Food Safety	Hospitality Administration/Management, General		
	Certified Food and Beverage Executive	Culinary Arts/ Chef Training	Culinary Science and Food Service Management	Business Administration Management, General

Additional industry based certification information is available from the TEA CTE website.

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

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Food Service Managers	$55,619	1,561	28%
Chef and Head Cooks	$43,285	1,366	25%
Food Science Technicians	$34,382	236	11%
Food and Beverage Managers	$55,619	1,561	28%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Student organization = SkillsUSA

Work Based Learning Opportunities:
Plan a catering event.
Work for a catering company.
Participate in a cooking course.
Work in a restaurant.
Cook at home.

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

Successful completion of the Culinary Arts program of study will fulfill requirements of the Business and Industry Endorsement.
Approved Statewide Program of Study - September 2019

Texas Education Agency

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE (Recommended)
Introduction to Culinary Arts	13022550 (1 credit) 08703	None	9-10
Principles of Hospitality and Tourism	13022200 (1 credit) 08909	None	9-12
Culinary Arts	13022600 (2 credits) 08884	None (Recommended: Principles of Hospitality and Tourism or Introduction to Culinary Arts)	10-12
Advanced Culinary Arts	13022650 (2 credits) 08946	PREQ: Culinary Arts	10-12
Practicum in Culinary Arts	13022700 (2 credits) 08852	PREQ: Culinary Arts	11-12
Career Preparation I Extended	12701305 (3 credits) 08958	None	11-12

Hospitality and Tourism – Culinary Program

Introduction to Culinary Arts (INCULART)

Course #: 08703 ***Credits: 1***

PEIMS #: 13022550 ***Grades: 9-10***

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

Prerequisites: None

Principles of Hospitality and Tourism (PRINHOSP)

Course #: 08909 ***Credits: 1***

PEIMS #: 13022200 ***Grades: 9-12***

The hospitality and tourism industry encompasses lodging; travel and tourism; recreation, amusements, attractions, and resorts; and restaurants and food beverage service. The hospitality and tourism industry maintains the largest national employment base in the private sector. Students use knowledge and skills that meet industry standards to function effectively in various positions within this multifaceted industry.

Prerequisites: None

Culinary Arts (CULARTS)

Course #: 08884 ***Credits: 2***

PEIMS #: 13022600 ***Grades: 10-12***

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science or baking and includes management and production skills and techniques. This course is offered as a laboratory-based course.

Prerequisites: Principles of Hospitality and Tourism or Introduction to Culinary Arts recommended

Advanced Culinary Arts* (ADCULART)

Course #: 08946 ***Credits: 2***

PEIMS #: 13022650 ***Grades: 1-12***

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

Prerequisites: Culinary Arts

Practicum in Culinary Arts* (PRACCUL1)

Course #: 08852 ***Credits: 2***

PEIMS #: 13022700 ***Grade: 11-12***

This course is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. The practicum course integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace.

Prerequisites: Culinary Arts

Career Preparation I Extended* (EXCAREE1)

Course #: 08958 ***Credits: 3***

PEIMS #: 12701305 ***Grades: 11-12***

This course provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and prepares students with a variety of skills for a fast-changing workplace. Career Preparation includes employability skills, job interview techniques, communication skills, financial and budget activities, human relations, as well as job-specific skills related to a student's training station.

Prerequisites: None

Business and Industry Endorsement

*Advanced CTE course

The **Information Technology Support and Services** program of study explores the occupations and educational opportunities associated with administering, testing, and implementing computer databases and applying knowledge of database management systems. This program of study may also include analyzing user requirements and problems to automate or improve existing systems and review computer system capabilities. This program of study may also include exploration into the research, design, or testing of computer or computer-related equipment for commercial, industrial, military, or scientific use.

COURSES

LEVEL 1

Principles of Information Technology

LEVEL 2

Computer Maintenance (or)
Computer Maintenance with Lab

LEVEL 3

Computer Technician Practicum

LEVEL 4

Computer Technician Practicum (2nd time)

Practicum in Information Technology

Career Preparation I Extended

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	IBM Certified Specialist - InfoSphere Optim for Distributed Systems Fundamentals	Computer and Information Sciences, General		
	IBM Certified Database Associate - DB2 11 Fundamentals for z/OS	Computer and Information Systems Security/Information Assurance		Computer Systems Analysis/ Analyst
	HP ASE - ProLiant Server Solutions Integrator V2	Information Technology	Computer Engineering, General	
	Oracle Linux 6 Advanced System Administration	Computer Systems Networking and Telecommunications		Information Technology
Additional industry based certification information is available from the TEA CTE website				
For more information on postsecondary options for this program of study, visit TXCTE.org.				

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Database Administrator	$83,075	1,063	19%
Information Technology - Computer Occupations, All Other	$85,197	1,616	20%
Computer Hardware Engineer	$111,738	343	24%
Computer System Analyst and Support	$87,568	5,937	29%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Student organization = SkillsUSA
Job shadow a database administrator or computer hardware engineer.

Worked Based Learning Activities:
Obtain a certification.

The Information Technology (IT) Career Cluster® focuses on building linkages in IT occupations for entry level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.

Successful completion of the Information Technology Support and Services program of study will fulfill requirements of a Business and Industry Endorsement. Approved Statewide Program of Study - September 2019

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITE (PREQ) COREQUISITE (CREQ)	GRADE (Recommended)
Principles of Information Technology	13027200 (1 credit) 08863	None	9-10
Computer Maintenance (or) Computer Maintenance with Lab	13027300 (1 credit) 08933 13027310 (2 credits) 08704	None (Recommended: Principles of Information Technology)	10-12
Computer Technician Practicum	13027500 (2 credits) 08866	None (Recommended: Principles of Information Technology, Computer Maintenance, and Computer Maintenance with Lab)	10-12
Computer Technician Practicum (2nd time)	13027510 (2 credits) 08882	None (Recommended: Principles of Information Technology, Computer Maintenance, and Computer Maintenance with Lab)	10-12
Practicum in Information Technology	13028000 (2 credits) 08871	PREQ: A minimum of two high school information technology courses.	12
Career Preparation I Extended	12701305 (3 credits) 08958	None	11-12

Information Technology – Information Technology Support and Services Program

Principles of Information Technology (PRINIT)

Course #: 08863 ***Credits: 1***

PEIMS #: 13027200 ***Grades: 9-10***

Students develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment. This course cannot be entered at mid-term.

Prerequisites: None

Computer Maintenance (COMPMTN)

Course #: 08933 ***Credits: 1***

PEIMS #: 13027300 ***Grades: 10-12***

Students acquire knowledge of computer maintenance and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer maintenance. Students will apply technical skills to address the IT industry and emerging technologies. This course cannot be entered at mid-term.

Prerequisites: Principles of Information Technology recommended

Computer Maintenance with Lab (COMMTLAB)

Course #: 08704 ***Credits: 2***

PEIMS #: 13027310 ***Grades: 10-12***

Students acquire knowledge of computer maintenance and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer maintenance. Students will apply technical skills to address the IT industry and emerging technologies. This course cannot be entered at mid-term.

Prerequisites: Principles of Information Technology recommended

Computer Technician Practicum* (COMPT1) (First time taken)

Course #: 08866 ***Credits:2***

PEIMS #: 13027500 ***Grades: 10-12***

Students will gain knowledge and skills in the area of computer technologies, including advanced knowledge of electrical and electronic theory, computer principles, and components related the installation, diagnosis, service, and repair of computer-based technology systems. Students will reinforce, apply, and transfer their knowledge and skills to a variety of settings and problems. Proper use of analytical skills and application of information technology concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted either in a classroom setting with an instructor, with an industry mentor, or both.

Prerequisites: None. Principles of Information Technology, Computer Maintenance, and Computer Maintenance Lab recommended

Computer Technician Practicum* (COMPT2) (Second time taken)

Course #: 08882 ***Credits:2***

PEIMS #: 13027510 ***Grades: 10-12***

Students will gain knowledge and skills in the area of computer technologies, including advanced knowledge of electrical and electronic theory, computer principles, and components related the installation, diagnosis, service, and repair of computer-based technology systems. Students will reinforce, apply, and transfer their knowledge and skills to a variety of settings and problems. Proper use of analytical skills and application of information technology concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted either in a classroom setting with an instructor, with an industry mentor, or both.

Prerequisites: None. Principles of Information Technology, Computer Maintenance, and Computer Maintenance Lab recommended

Practicum in Information Technology* (PRACIT1)

Course #: 08871 ***Credits: 2***

PEIMS #: 13028000 ***Grade: 12***

Students gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge and skills in the proper use of analytical and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an industry mentor, as an unpaid or paid internship, as part of a capstone project or as career preparation. **This course is only offered at ATEMS.**

Prerequisites: A minimum of two high school information technology (IT) courses required.

Career Preparation I Extended* (EXCAREE1)

Course #: 08958 ***Credits: 3***

PEIMS #: 12701305 ***Grades: 11-12***

This course provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and prepares students with a variety of skills for a fast-changing workplace. Career Preparation includes employability skills, job interview techniques, communication skills, financial and budget activities, human relations, as well as job-specific skills related to a student's training station.

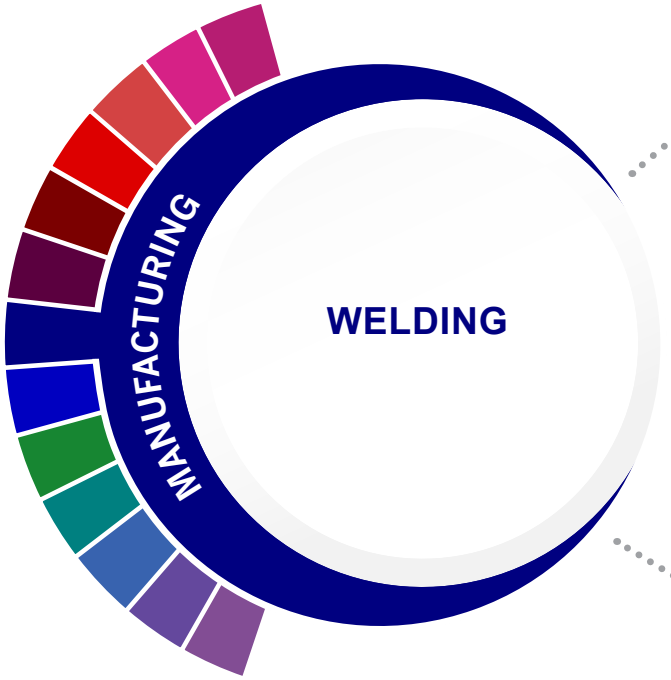
Prerequisites: None

Business and Industry Endorsement

*Advanced CTE course

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

COURSES



LEVEL 1

Introduction to Welding

LEVEL 2

Welding I

LEVEL 3

Welding II
(Dual Credit)

LEVEL 4

Practicum in Manufacturing (or)
Practicum /Extended Practicum in Manufacturing

Career Preparation I Extended

POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
AWS Certified Welder D1.1, D9.1 (Intro or Welding I)	Certified Welder or Welder Inspector	Welding Technology/ Welder	Welding Engineering Technology/ Technician	
	Machining Level 1 CNC Milling: Programming Setup & Operations	Machine Shop Technology/ Assistant	Biomedical Technology/ Technician	Occupational Health and Industrial Hygiene
	Certified Welding Engineering	Operations Management and Supervision		
	Certified Environmental, Safety, and Health Trainer	Occupational Safety and Health Technology/ Technician	Environmental Health	

Additional industry based certification information is available from the TEA CTE website.

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

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Welders, Cutters, Solderers, and Brazers	$41,350	6,171	9%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Student organization: SkillsUSA
Job shadow a machinist.

Work Based Learning Activities:
Apprenticeship at a local business or industry.
American Welding Society

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

Successful completion of the Manufacturing Technology program of study will fulfill requirements of the Business and Industry Endorsement.
Approved Statewide Program of Study - September 2019

Texas Education Agency

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE (Recommended)
Introduction to Welding	13032250 (1 credit) 08709	None (Recommended prerequisite or corequisite: Algebra I)	9-12
Welding I	13032300 (2 credit) 08879	AISD Requirement: Intro to Welding, Agricultural Mechanics and Metal Technologies, or demonstrated welding proficiency	10-12
Welding II (Dual Credit)	13032400 (2 credits) (Dual credit)	PREQ: Welding I (Recommended: Algebra I or Geometry)	11-12
Practicum in Manufacturing	**13033000 (2 credits)** **08883**	None (AISD Recommended: Welding II)	12
Practicum in Manufacturing/ Extended Practicum in Manufacturing	13033005 (3 credits) 08912	None (AISD Recommended: Welding II)	12
Career Preparation I Extended	12701305 (3 credits) 08958	None	11-12

Manufacturing – Welding Program

Introduction to Welding (INTRWELD)

Course #: 08709 ***Credits: 1***

PEIMS #: 13032250 ***Grades: 9-12***

This course will provide an introduction to welding technology with an emphasis on basic welding laboratory principles and operating procedures. Students will be introduced to the three basic welding processes. Topics include industrial safety and health practices, hand tool and power machine use, measurement, laboratory, welding career potentials, and introduction to welding codes and standards. Introduction to Welding will provide students with the knowledge, skills, and technologies required for employment in welding industries. Students will develop knowledge and skills related to welding and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills will prepare students for future success.

Prerequisites: Recommended prerequisite or corequisite Algebra 1

Welding I (WELD1)

Course #: 08879 or T8879 dual credit (TSTC) ***Credits: 2***

PEIMS #: 13032300 ***Grades: 10-12***

This course provides the knowledge, skills, and technologies required for employment in metal technology systems. Students will develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success. **This course is offered on the Cooper High School campus and is open to all AISD students.**

Prerequisites: Intro to Welding, Ag Mechanics and Metal Technologies, or demonstrated welding proficiency AISD requirement

Welding II* (WELD2)

Course #: 08880 or C8880 dual credit (Cisco) ***Credits: 2***

PEIMS #: 13032400 ***Grades: 11-12***

Welding II builds on the knowledge and skills developed in Welding I. students will develop advanced welding concepts and skills as related to personal and career development. Students will integrate academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Students will have the opportunity to complete the American Welding Society Sense certification. **This course is offered on the Cooper High School and Woodson CE campuses but is open to all AISD students.**

Prerequisites: Welding I required; Algebra I or Geometry recommended

Practicum in Manufacturing* (PRACMAN1)

Course #: 08883 ***Credits: 2***

PEIMS #: 13033000 ***Grades: 12***

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the manufacturing cluster. The practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

Prerequisites: None; Welding II recommended by AISD

Practicum in Manufacturing/Extended Practicum in Manufacturing* (EXPRMAN1)

Course #: 08912 ***Credits: 3***

PEIMS #: 13033005 ***Grades: 12***

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the manufacturing cluster. The practicum is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

Prerequisites: None; Welding II recommended by AISD

Career Preparation I Extended* (EXCAREE1)

Course #: 08958 ***Credits: 3***

PEIMS #: 12701305 ***Grades: 11-12***

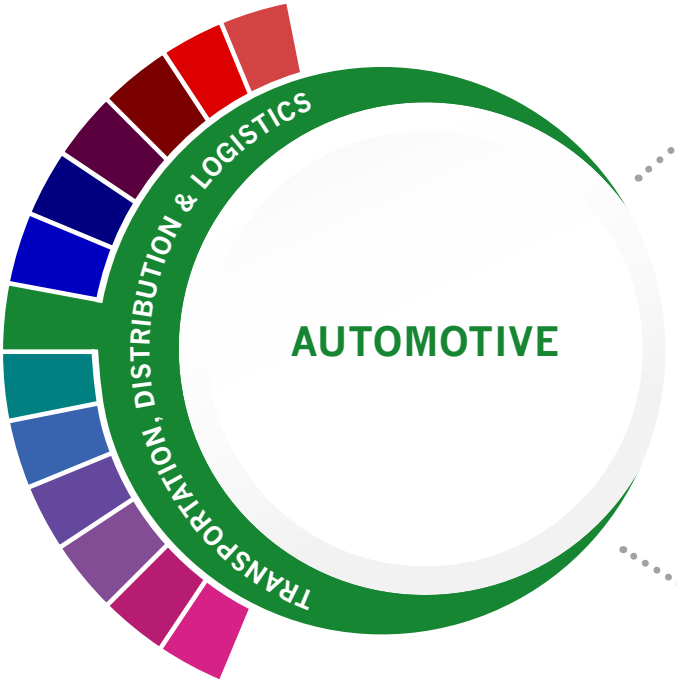
This course provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and prepares students with a variety of skills for a fast-changing workplace. Career Preparation includes employability skills, job interview techniques, communication skills, financial and budget activities, human relations, as well as job-specific skills related to a student's training station.

Prerequisites: None

Business and Industry Endorsement

*Advanced CTE course

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



COURSES

LEVEL 1

Automotive Basics

LEVEL 2

Automotive Technology I

LEVEL 3

Automotive Technology II

LEVEL 4

Practicum in Transportation Systems

Career Preparation I Extended

POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	Master Collision Repair and Refinishing Technician	Autobody/ Collision and Repair Technology/ Technician		Mechanical Engineering
	Automobile Technician: various systems and parts	Medium/ Heavy Vehicle and Truck Technology/ Technician		
	Engine Machinist Technician	Mechanical Engineering/ Mechanical Technology/ Technician		
	Collision Repair and Refinish			

Additional industry based certification information is available from the TEA CTE website.

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

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Automotive Body and Related Repairers	$40,144	1,456	25%
Automotive Service Technicians and Mechanics	$38,459	208	25%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Student organization = SkillsUSA

Work Based Learning Activities:
Work at a local automotive repair or body shop.

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

Successful completion of the Automotive program of study will fulfill requirements of the Business and Industry Endorsement.
Approved Statewide Program of Study - September 2019

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE (Recommended)
Automotive Basics	13039550 (1 credit) 08706	None	9-12
Automotive Technology I: Maintenance and Light Repair	13039600 (2 credits) 08895	AISD Requirement: Automotive Basics	10-12
Automotive Technology II	13039700 (2 credits) 08896	PREQ: Automotive Technology I: Maintenance and Light Repair	11-12
Practicum in Transportation Systems	13040450 (2 credits) 08948	None	11-12
Career Preparation I Extended	12701305 (3 credits) 08958	None	11-12

Transportation, Distribution and Logistics – Automotive Program

Automotive Basics (AUTOBASC)

Course #:08706 ***Credits 1***

PEIMS #:13039550 ***Grades:9-12***

Automotive Basics includes knowledge of the basic automotive systems and the theory and principles of the components that make up each system and how to service these systems. The course includes applicable safety and environmental rules and regulations. Students will gain knowledge and skills in the repair, maintenance, and servicing of vehicle systems. This study allows students to reinforce, apply and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability. **This course is offered at Abilene High only but is open to all AISD students.**

Prerequisites: None

Automotive Technology I: Maintenance and Light Repair* (AUTOTEC1)

Course #: 08895 ***Credits: 2***

PEIMS #:13039600 ***Grades:9-12***

This course includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. This course includes applicable safety and environmental rules and regulations. Students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability. **This course is offered at Abilene High only but is open to all AISD students.**

Prerequisites: Automotive Basics AISD requirement

Automotive Technology II: Automotive Service* (AUTOTEC2)

Course #: 08896 ***Credits: 2***

PEIMS #: 13039700 ***Grades: 11-12***

This course includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. The course includes applicable safety and environmental rules and regulations. Students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability. Students will have the opportunity to complete the Section 609 MVAC Technician certification. **This course is offered at Abilene High only but is open to all AISD students.**

Prerequisites: Automotive Technology I: Maintenance and Light Repair

Practicum in Transportation Systems* (PRACTRS1)

Course #: 08948 ***Credits: 2***

PEIMS #: 13040450 ***Grades: 11-12***

This course is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience such as internship, mentorships, independent study, or laboratories. The Practicum can be either school-lab based or work-based. **This course is offered at Abilene High only but is open to all AISD students.**

Prerequisites: None

Career Preparation I Extended* (EXCAREE1)

Course #: 08958 ***Credits: 3***

PEIMS #: 12701305 ***Grades: 11-12***

This course provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and prepares students with a variety of skills for a fast-changing workplace. Career Preparation includes employability skills, job interview techniques, communication skills, financial and budget activities, human relations, as well as job-specific skills related to a student's training station.

Prerequisites: None

Business and Industry Endorsement

*Advanced CTE course

Public Services Endorsement

Subject to State Board of Education approval and updates:

A student may earn a Public Services Endorsement by completing the following requirements:

1. a coherent sequence of courses for four or more credits in CTE that consists at least two courses in the same career cluster, including at least one advanced CTE course which includes any course that is the third of higher course in a sequence. The final course in the sequence must be selected from one of the CTE career clusters listed in the following:
    - Education and Training
    - Health Science
    - Human Services
    - Law and Public Service; or
2. four credits in Junior Reserve Officer Training Corps (JROTC)

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

COURSES

LEVEL 1
Principles of Education and Training
Principles of Human Services

LEVEL 2
Child Development

LEVEL 3
Child Guidance

LEVEL 4
Career Preparation I

POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Child Development Associate		Early Childhood Education and Teaching		
Educational Aide I	Texas Educator Certification Program	Multicultural Early Childhood Development		
	County Librarian	Kindergarten/ Preschool Education and Training	Early Childhood	Educational, Instructional, and Curriculum Supervision
	Professional Counselor	Psychology/Sociology		Educational Leadership and Administration

Additional industry based certification information is available from the TEA CTE website.

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

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Kindergarten Teachers, except Special Education	$53,310	1,848	17%
Preschool Teachers	$27,851	4,330	17%
Special Education Teachers, Preschool	$55,670	148	27%
Elementary School Teachers	$54,140	13,121	16%
Education Administrators, Elementary and Secondary School	$79,830	2,407	16%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Student organizations = Texas Association of Future Educators (TAFE); Family, Career, & Community Leaders of America (FCCLA)

Work Based Learning Activities:
Teach a community education class.
Volunteer as a teaching assistant.

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.

Successful completion of the Early Learning program of study will satisfy the requirements for the Public Service Endorsement.
Approved Statewide Program of Study - September 2019

COURSE INFORMATION

COURSE NAME	SERVICE ID	**PREREQUISITES** (PREQ) **COREQUISITES** (CREQ)	GRADE (Recommended)
Principles of Education and Training	13014200 (1 credit) 08833	None	9-10
Principles of Human Services	13024200 (1 credit) 08910	None	9-12
Child Development	13024700 (1 credit) 08911	None (Recommended: Principles of Human Services)	10-12
Child Guidance	13024800 (2 credits) 08858	None (Recommended prerequisite: Principles of Human Services. Recommended pre- or corequisite: Child Development)	10-12
Career Preparation I **Career Preparation I Extended**	12701300 (2 credits) 08953 12701305 (3 credits) 08958	None	11-12

Education and Training – Early Learning Program

Principles of Education and Training (PRINEDTR)	
Course #: 08833	***Credits: 1***
PEIMS #: 13014200	***Grades: 9-10***
Principles of Education and Training is designed to introduce learners to the various careers available within the Education and Training Career Cluster. Students use self-knowledge as well as educational and career information to analyze various careers within the Education and Training Career Cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.	
Prerequisites: None	

Principles of Human Services (PRINHUSR)	
Course #: 08910	***Credit: 1***
PEIMS #: 13024200	***Grades: 9-12***
This laboratory course will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, personal care, and consumer services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers.	
Prerequisites: None	

Child Development (CHILDDEV)	
Course #: 08911	***Credits: 1***
PEIMS #: 13024700	***Grades: 10-12***
This technical laboratory course addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills, Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.	
Prerequisites: Principles of Human Services recommended	

Child Guidance* (CHILDGUI)	
Course #: 08858	***Credits: 2***
PEIMS #: 13024800	***Grades: 10-12***
This course is a technical laboratory course that addresses the knowledge and skills related to child growth and guidance equipping students to develop positive relationships with children and effective caregiver skills. Students use these skills to promote the well-being and healthy development of children, strengthen a culturally diverse society, and pursue careers related to the care, guidance, and education of children, including those with special needs. Instruction may be delivered through school-based laboratory training or through work-based delivery arrangements such as cooperative education, mentoring, and job shadowing. Students will begin compiling documentation for the Child Development Associate certification.	
Prerequisites: Principles of Human Services recommended; Child Development as recommended prerequisite or corequisite	

Career Preparation I* (CAREERP1)	
Course #: 08953	***Credits: 2***
PEIMS #: 12701300	***Grades: 11-12***

Career Preparation I Extended* (EXCAREE1)	
Course #: 08958	***Credits: 3***
PEIMS #: 12701305	***Grades: 11-12***
This course provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and prepares students with a variety of skills for a fast-changing workplace. Career Preparation includes employability skills, job interview techniques, communication skills, financial and budget activities, human relations, as well as job-specific skills related to a student's training station.	
Prerequisites: None	

Public Services Endorsement

*Advanced CTE course

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

COURSES

LEVEL 1

Principles of Education and Training

Principles of Human Services

LEVEL 2

Human Growth and Development

Child Development

LEVEL 3

Instructional Practices

LEVEL 4

Practicum in Education and Training

Career Preparation I Extended

POSTSECONDARY OPTIONS

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

Additional industry based certification information is available from the TEA CTE website.

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

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Adult Basic, Secondary Education and Literacy Teachers	$48,069	862	17%
Middle School Teachers, Except Special and Career/ Technical Education	$54,510	6,407	15%
Career and Technical Education Teachers, Secondary	$56,360	719	9%
Special Education Teachers, Secondary	$56,720	980	18%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Student organizations = Texas Association of Future Educators (TAFE); Family, Career and Community Leaders of America (FCCLA)

Work Based Learning Activities:
Teach a community education class.
Intern as a teaching assistant or tutor.
Serve as a camp counselor.

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.

Successful completion of the Teaching and Training program of study will fulfill requirements of the Public Service Endorsement.
Approved Statewide Program of Study - September 2019

Texas Education Agency

COURSE INFORMATION

COURSE NAME	SERVICE ID	**PREREQUISITES** (PREQ) **COREQUISITES** (CREQ)	GRADE (Recommended)
Principles of Education and Training	13014200 (1 credit) 08833	None	9-10
Principles of Human Services	13024200 (1 credit) 08910	None	9-12
Human Growth and Development	13014300 (1 credit) 08936	None (Recommended: Principles of Education and Training)	10-12
Child Development	13024700 (1 credit) 08911	None (Recommended: Principles of Human Services)	10-12
Instructional Practices	13014400 (2 credits) 08835	None (Recommended: Principles of Education and Training and Human Growth and Development)	11-12
Practicum in Education and Training	13014500 (2 credits) 08836	PREQ: Instructional Practices (Recommended: Principles of Education and Training and Human Growth and Development)	12
Career Preparation I Extended	12701305 (3 credits) 08958	None	11-12

Education and Training – Teaching and Training Program

Principles of Education and Training (PRINEDTR)

Course #: 08833 ***Credits: 1***

PEIMS #: 13014200 ***Grades: 9-10***

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

Prerequisites: None

Principles of Human Services (PRINHUSR)

Course #: 08910 ***Credit: 1***

PEIMS #: 13024200 ***Grades: 9-12***

This laboratory course will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, personal care, and consumer services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers.

Prerequisites: None

Child Development (CHILDDEV)

Course #: 08911 ***Credits: 1***

PEIMS #: 13024700 ***Grades: 10-12***

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

Prerequisites: Principles of Human Services recommended

Human Growth and Development (HUGRDEV)

Course #: 08936 ***Credits: 1***

EIMS #: 13014300 ***Grades: 10-12***

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

Prerequisites: None; Principles of Education and Training recommended

Instructional Practices * (INPRAC)

Course #: 08835 ***Credits: 2***

PEIMS #: 13014400 ***Grades: 11-12***

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

Prerequisites: None; Principles of Education and Training and Human Growth and Development recommended

Practicum in Education and Training* (PRACEDTR1)

Course #: 08836 ***Credits: 2***

PEIMS #: 13014500 ***Grades: 12***

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

Prerequisites: Instructional Practice) required, Principles of Education and Training and Human Growth and Development recommended

Career Preparation I* (CAREERP1)

Course #: 08953 ***Credits: 2***

PEIMS #: 12701300 ***Grades: 11-12***

Career Preparation I Extended* (EXCAREE1)

Course #: 08958 ***Credits: 3***

PEIMS #: 12701305 ***Grades: 11-12***

This course provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and prepares students with a variety of skills for a fast-changing workplace. Career Preparation includes employability skills, job interview techniques, communication skills, financial and budget activities, human relations, as well as job-specific skills related to a student's training station.

Prerequisites: None

Public Services Endorsement

*Advanced CTE course

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

COURSES

LEVEL 1

Medical Terminology

LEVEL 2

Principles of Health Science

LEVEL 3

Anatomy and Physiology Health

Health Science Theory

LEVEL 4

Medical Microbiology

Practicum in Health Science

POSTSECONDARY OPTIONS

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

Additional industry based certification information is available from the TEA CTE website.

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

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Medical Assistants	$29,598	8,862	30%
Surgical Technologists	$46, 310	1,150	21%
Dental Hygienists	$73,507	1,353	38%
Physicians and Surgeons	$213,071	1,151	30%
Dental Assistants	$34,840	4,422	31%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Student organization: Health Occupations Students of America (HOSA)

Work Based Learning Activities:
Volunteer at a community wellness center, hospital, assisted living, or nursing home.

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

Successful completion of the Healthcare Therapeutic program of study will fulfill requirements of the Public Service Endorsement.
Approved Statewide Program of Study - September 2019

Texas Education Agency

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ)	GRADE
Medical Terminology	13020300 (1 credit) 08707	None	9-12
Principles of Health Science	13020200 (1 credit) 08841	None	10
Anatomy and Physiology	13020600 (1 credit) 08847	PREQ: Biology and a second science credit	10-12
Health Science Theory	13020410 (2 credits) 08955 HLSCLIN-DHS 08956 HLSCLIN-CNA	PREQ: Biology AISD Requirement: Principles of Health Science	11-12
Medical Microbiology	13020700 (1 credit) 08708	PREQ: Biology and Chemistry (Recommended: A course from the Health Science career cluster)	11-12
Practicum in Health Science	13020500 (2 credits) 08845 PRACHLS1-CMA 08846 PRACHLS1-PHARM 08916 PRACHLS1-CNA 08922 PRACHLS1-RDA	PREQ: Health Science Theory and Biology	11-12

Program Overview:

Students who choose to complete the Healthcare Therapeutic program of study within the Health Science cluster generally complete Principles of Health Science and Medical Terminology during their freshman and sophomore years at Abilene High or Cooper High.

During their junior year, students attend Holland where they complete Health Science Theory with a clinical experience. While in this course, students choose to focus either on earning their Certified Nurse Aide/Assistant certification or on learning about a variety of healthcare career fields (this option is referred to as Diversified Healthcare Services). Juniors also complete Anatomy and Physiology either at Holland or on their home campuses.

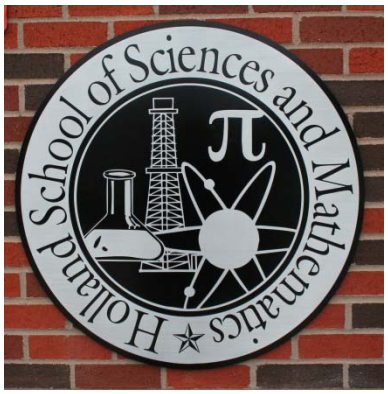
For their senior year, students complete both Medical Microbiology and Practicum in Health Science. During their Practicum course, students will choose to complete one of the following certification options:

- Pharmacy Technician certification,
- Registered Dental Assistant certification,
- Certified Nurse Aide/Assistant certification, or
- Certified Medical Assistant with EKG/ECG Technician certification.

HOLLAND MEDICAL HIGH SCHOOL

Students interested in pursuing careers in the health care field have the opportunity to attend Holland Medical High School on the beautiful campus of Hardin-Simmons University. Holland is a unique, collaborative partnership between HSU, Cisco College and the Abilene Independent School District. Constructed on the corner of Cedar and Vogel, Holland Medical High is located near the largest medical community in West Texas and is adjacent to Hendrick Health System.

Holland offers the Healthcare Therapeutic program of study to eleventh and twelfth grade students interested in the health field. Students divide their time each day between Holland and their home campuses. Beginning their junior year, students attend Holland Medical High School for three periods each day (either morning or afternoon) with the remainder of the day spent at their home campus where they complete additional courses and have the option to participate in extracurricular activities, such as athletics and fine arts. Principles of Health Science, a required prerequisite course, is available at both Cooper High and Abilene High for 10th through 12th graders. Medical Terminology, a recommended prerequisite, is open to 9th through 12th grade students. Students who complete the Healthcare Therapeutic program of study will be eligible for a Public Services Endorsement upon graduation.



Health Science Courses offered at Holland are:

- Health Science Theory/Health Science Clinical – Certified Nurse Aide
- Health Science Theory/Health Science Clinical – Diversified Healthcare Skills
- Practicum in Health Science – Pharmacy Technician
- Practicum in Health Science – Dental Assistant
- Practicum in Health Science – Medical Assistant
- Anatomy and Physiology
- Medical Microbiology

Holland students will have the opportunity to complete numerous certifications recognized by the health care industry. These certifications may include the following: ASHI First Aid; CPR; OSHA 10; Certified Nurse Aide; Pharmacy Technician; Registered Dental Assistant (Radiology, Infection Control, and Jurisprudence); Certified Electrocardiograph Technician; Certified Clinical Medical Assistant; and Phlebotomy Technician.

For additional information on Holland Medical High School and the AISD Health Science program of study, contact the Director of Holland at (325)794-4120.

Public Services Endorsement

*Advanced CTE course

Health Science – Healthcare Therapeutic Program

Medical Terminology (MEDTERM)

Course #:08707 — ***Credits: 1***

PEIMS #:13020300 — ***Grades: 9-12***

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

Prerequisites: None

Principles of Health Science (PRINHLSC)

Option for Dual Credit

Course #: 08841 — ***Credits: 1***

PEIMS #: 13020200 — ***Grade: 10***

This course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. In addition, the student will be instructed in various health care skills such as taking vital signs, body mechanics, infection control, and CPR/First Aid. This course is available at Abilene High and Cooper High and is a prerequisite for courses at Holland Medical High School. It cannot be entered at mid-term.

Prerequisites: None

Anatomy and Physiology* (ANATPHYS)

Course #: 08847 — ***Credits: 1***

PEIMS #: 13020600 — ***Grades: 11-12***

This course introduces a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. Students conduct laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem-solving. Note: This course can count as the fourth year of science for graduation requirements for students entering 9th grade in 2007-2008.

Prerequisites: Biology and a second science credit required; a course from the Health Science career cluster recommended

Health Science Theory*/Health Science Clinical - Diversified Healthcare Skills (HLSCLIN-DHS)

Course #: 08955 — ***Credits: 2***

PEIMS #: 13020410 — ***Grades: 11-12 (must be 16 by Nov 1)***

These courses are designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development. Health Science Theory and Health Science Clinical must be taken concurrently. At the completion of this course, students will engage in an unpaid work-based, job shadowing experience. The course prepares the student for transition into further training or work-based experience in healthcare. At the completion of this course, students will engage in an unpaid work-based, job shadowing experience. The course prepares the student for transition into further training or work-based experience in healthcare. **This course is only available at Holland Medical High.**

Prerequisites: Biology required; Principles of Health Science AISD requirement

Health Science Theory*/Health Science Clinical - Certified Nurse Assistant (HLSCLIN-CNA)

Course #: 08956 — ***Credits: 2***

PEIMS #: 13020410 — ***Grades: 11-12 (must be 16 by Nov 1)***

These courses are designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development. Health Science Theory and Health Science Clinical must be taken concurrently. During the fall semester students will participate in a Texas Department of Health approved Nurse's Aide certification program. During the spring semester students will participate in clinical rotations at participating health care facilities. **This course is only available at Holland Medical High.**

Prerequisites: Biology required; Principles of Health Science AISD requirement

Medical Microbiology* (MICRO)

Course #: 08708 — ***Credits: 1***

PEIMS #: 13020700 — ***Grades: 11-12***

This course is designed to explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug-resistant organisms, and emerging diseases. **This course is only available at Holland Medical High.**

Prerequisites: Biology and Chemistry required; a course from the Health Science Career Cluster recommended

Practicum in Health Science – Medical Assistant* (PRACHLS2-CMA)

Course #: 08915 — ***Credits: 2***

PEIMS #: 13020510 — ***Grade: 12***

This practicum is designed to provide the knowledge and skills for students to obtain national-approved medical assistant certifications. In the fall, students are offered a certification as a Certified Electrocardiograph Technician (CET). This semester consists of learning how to perform an EKG and patient monitoring during cardiac procedures and interpreting EKG results. In the spring, students are offered a certification as a Certified Clinical Medical Assistant. This semester consists of learning skills such as patient history and assessment, minor office procedures, phlebotomy, EKG, specimen collection and front-office admission skills. Students will do clinicals at the hospital and physician offices. This course cannot be entered at midterm. **This course is only available at Holland Medical High.**

Prerequisites: Principles of Health Science and Biology required; Health Science Theory/Health Science Clinical Recommended

Practicum in Health Science – Pharmacy Technician* (PRACHLS2-PHARM)

Course #: 08914 — ***Credits: 2***

PEIMS #: 13020510 — ***Grade: 12***

This practicum is designed to give students the knowledge and skills to complete the national certification test for Pharmacy Technician. The practicum course provides an unpaid capstone experience for students participating in the health science coherent sequence. **This course is only available at Holland Medical High.**

Prerequisites: Principles of Health Science required; Health Science Theory/Health Science Clinical and Chemistry recommended

Public Services Endorsement

*Advanced CTE course

Practicum in Health Science – Dental Assistant* (PRACHLS2-ROA)

Course #: 08927 ***Credits: 2***

PEIMS #: 13020510 ***Grade: 12***

This practicum is designed to give students the knowledge and skills to complete the state certification test for Registered Dental Assistant. Students will have the opportunity to complete up to three of the certifications recognized in the state certification test. This practicum provides an unpaid internship in a dental office. **This course is only available at Holland Medical High.**

Prerequisites: Principles of Health Science

Practicum in Health Science – Certified Nurse Aide* (PRACHLSC2-CNA)

Course #: 08923 ***Credits: 2***

PEIMS #: 13020510 ***Grades: 12***

A course designed to provide for the development of multi-occupational knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skills development. During the fall semester students will participate in a Texas Department of Health approved Nurse's Aide certification program. During the spring semester students will participate in clinical rotations at participating local health care facilities. This course cannot be entered at mid-term. **This course is only available at Holland Medical High.**

Prerequisites: Principles of Health Science, Biology, and Health Science Theory/Health Science Clinical-DHS

Project-Based Research – Phlebotomy* (PROBS1)

Course #: 08950 ***Credits: 1***

PEIMS #: 12701500 ***Grade: 12***

Phlebotomy is an independent study course taught on the campus of Cisco College, offered as a continuing education credit. This course usually meets three nights a week during the spring semester. Phlebotomy provides a general overview of techniques, procedures and issues pertaining to the proper collection of blood specimens for routine clinical laboratory testing in order to develop well-trained, proficient and professional phlebotomists. Students will learn proper patient contact and procedures; phlebotomy techniques, procedures and equipment; the anatomy and physiology of the circulatory system; and laboratory organization and measurement. Training includes 84 hours of classroom instruction and clinical hours determined by the successful completion of 100 combined vein puncture and finger/heel sticks for students to receive a National Phlebotomy certification. **This course is only available at Holland Medical High.**

Prerequisites: Principles of Health Science

Project-Based Research – Research and Design* (PROBS1)

Course #: 08952 ***Credits: 1***

PEIMS #: 12701500 ***Grade: 12***

This independent study course is a project-based learning experience developed by a student or group of students and an interdisciplinary mentor team. The project provides opportunities for an in-depth study of at least one aspect of the healthcare industry. The student or group demonstrates the ability to utilize a variety of resources, advanced technology, and communication skills in the development and presentation of the project. **This course is only available at Holland Medical High.**

Prerequisites: Principles of Health Science, Health Science Theory, Practicum in Health Science

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

COURSES

LEVEL 1

Principles of Human Services

LEVEL 2

Child Development

Human Growth and Development

LEVEL 3

Counseling and Mental Health

LEVEL 4

Career Preparation I Extended

POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	Human Development and Family Studies	Human Development and Family Studies		
	Community Health Services/ Liaison/ Counseling	Human Services/Sciences, General		Marriage and Family Therapy/ Counseling
	Distance Credentialed Counselor	Family and Consumer Sciences		Human Services/ Sciences
	Educator Certification in Family and Consumer Sciences	Community Health Services	Child and Family Services	Family Studies

Additional industry based certification information is available from the TEA CTE website.

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

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Child, Family, and School Social Workers	$41,350	2,221	17%
Social and Community Services Managers	$65,146	608	33%
Marriage and Family Therapists	$42,266	217	35%
Social and Human Service Assistants	$32,448	2,822	25%
Mental Health, Substance Abuse, and Behavioral Disorder Counselors	$42,120	576	39%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Student organization: Family, Career and Community Leaders of America (FCCLA)

Work Based Learning Activities:
Volunteer at a community center.
Intern for a community non-profit organization.

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

Successful completion of the Family and Community Services program of study will fulfill requirements of the Public Service Endorsement.
Approved Statewide Program of Study - September 2019

012-07-2020

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITE (PREQ) COREQUISITE (CREQ)	GRADE (Recommended)
Principles of Human Services	13024200 (1 credit) 08910	None	9-12
Child Development	13024700 (1 credit) 08911	None (Recommended: Principles of Human Services)	10-12
Human Growth and Development	13014300 (1 credit) 08936	None (Recommended: Principles of Education and Training)	10-12
Counseling and Mental Health	13024600 (1 credit) 08967	None (Recommended: Principles of Human Services)	11-12
Career Preparation I Extended	12701305 (3 credits) 08958	None	11-12

Human Services – Family and Community Services Program

Principles of Human Services (PRINHUSR)	
Course #: 08910	***Credit: 1***
PEIMS #: 13024200	***Grades: 9-12***
This laboratory course will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, personal care, and consumer services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers.	
Prerequisites: None	

Child Development (CHILDDEV)	
Course #: 08911	***Credits: 1***
PEIMS #: 13024700	***Grades: 10-12***
This technical laboratory course addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills, Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.	
Prerequisites: Principles of Human Services recommended	

Human Growth and Development (HUGRDEV)	
Course #: 08936	***Credits: 1***
EIMS #: 13014300	***Grades: 10-12***
This course is an examination of human development across the lifespan with emphasis upon research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones. The course covers material that is generally taught in a postsecondary, one-semester introductory course in developmental psychology or human development.	
Prerequisites: None; Principles of Education and Training recommended	

Counseling and Mental Health* (COUNSMH)	
Course #: 08967	***Credits: 1***
PEIMS #: 13024600	***Grades: 11-12***
In this course, students model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students are expected to apply knowledge of ethical and legal responsibilities, limitations on their actions and responsibilities, and the implications of their actions. Students understand how professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities.	
Prerequisites: None; Principles of Human Services recommended	

Career Preparation I Extended* (EXCAREE1)	
Course #: 08958	***Credits: 3***
PEIMS #: 12701305	***Grades: 11-12***
This course provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and prepares students with a variety of skills for a fast-changing workplace. Career Preparation includes employability skills, job interview techniques, communication skills, financial and budget activities, human relations, as well as job-specific skills related to a student's training station.	
Prerequisites: None	

Public Services Endorsement

*Advanced CTE course

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

COURSES

LEVEL 1

Principles of Law, Public Safety, Corrections, and Security

LEVEL 2

LEVEL 3

Firefighter I

Anatomy and Physiology

Counseling and Mental Health

LEVEL 4

Firefighter II

POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Emergency Medical Technician - Basic		Emergency Medical Technology/Technician (EMT Paramedic)		
Basic Structure Fire Protection Certification	Fire Protection Personnel/ Firefighter	Fire Prevention and Safety Technology/ Technician	Natural Resources Law Enforcement and Protective Services	
	Fire Protection System Contractor	Fire Science/ Fire-fighting		
	Fire Inspector			

Additional industry based certification information is available from the TEA CTE website.

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

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Firefighters	$50,149	2,309	13%
Fire Inspectors and Investigators	$54,787	161	14%
Emergency Medical Technicians	$34,091	1,880	31%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Student organization = Texas Public Service Association (TPSA)
Attend local emergency awareness events.

Work Based Learning Activities:
Volunteer at a hospital or a fire station.

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

Successful completion of the Emergency Services program of study will fulfill requirements of the Public Service Endorsement.
Approved Statewide Program of Study - September 2019

COURSE INFORMATION

COURSE NAME	SERVICE ID	**PREREQUISITES** (PREQ) **COREQUISITES** (CREQ)	GRADE (Recommended)
Principles of Law, Public Safety, Corrections, and Security	13029200 (1 credit) 08873	None	9-12
Firefighter I	13029900 (2 credits) C8712	None (Recommended: Principles of Law, Public Safety, Corrections, and Security and Law Enforcement I)	10-12
Anatomy and Physiology	13020600 (1 credit) 08847	PREQ: Biology and a second science credit (Recommended: A course from the Health Science career cluster)	10-12
Counseling and Mental Health	13024600 (1 credit)	None (Recommended: Principles of Human Services)	11-12
Firefighter II	13030000 (3 credits) C8713	PREQ: Firefighter I	11-12

Law and Public Service – Emergency Services Program

Principles of Law, Public Safety, Corrections, and Security-LAW (PRINLPCS-LAW)

Course #: 08873L ***Credits: 1***

PEIMS #: 13029200 ***Grades: 9-12***

Principles of Law, Public Safety, Corrections, and Security-Law introduces students to professions in law enforcement, protective services, corrections, firefighting, and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, protective services, and corrections.

Prerequisites: None

Firefighter I* (FIRE1)

Course #: 08712 ***Credits: 2***

PEIMS #: 13029900 ***Grades: 10-12***

Firefighter I introduces students to firefighter safety and development. Students will analyze Texas Commission on Fire Protection rules and regulations, proper incident reporting and records, proper use of personal protective equipment, and the principles of fire safety. **This course is offered at CHS, but it is open to all AISD students.**

Prerequisites: Principles of Law, Public Safety, Corrections and Security and Law Enforcement I recommended

Anatomy and Physiology* (ANATPHYS)

Course #: 08847 ***Credits: 1***

PEIMS #: 13020600 ***Grades: 11-12***

This course introduces a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. Students conduct laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem-solving. Note: This course can count as the fourth year of science for graduation requirements for students entering 9th grade in 2007-2008.

Prerequisites: Biology and a second science credit required; a course from the Health Science career cluster recommended

Counseling and Mental Health* (COUNSMH)

Course #: 08967 ***Credits: 1***

PEIMS #: 13024600 ***Grades: 11-12***

In this course, students model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students are expected to apply knowledge of ethical and legal responsibilities, limitations on their actions and responsibilities, and the implications of their actions. Students understand how professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities.

Prerequisites: None; Principles of Human Services recommended

Firefighter II* (FIRE2)

Course #: 08713 ***Credits: 3***

PEIMS #: 13030000 ***Grades: 11-12***

Firefighter II is the second course in a series for students studying firefighter safety and development. Students will understand Texas Commission on Fire Protection rules and regulations, proper incident reporting and records, proper use of personal protective equipment, and the principles of fire safety. Students will demonstrate proper use of fire extinguishers, ground ladders, fire hoses, and water supply apparatus systems. **This course is offered at CHS, but it is open to all AISD students.**

Prerequisites: Firefighter I

Public Services Endorsement

*Advanced CTE course

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

COURSES

LEVEL 1

Principles of Law, Public Safety, Corrections, and Security

LEVEL 2

Law Enforcement I

Criminal Investigations

LEVEL 3

Correctional Services

Counseling and Mental Health

LEVEL 4

Forensic Science

POSTSECONDARY OPTIONS

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
	Law Enforcement Officer	Criminal Justice/Safety Studies/Law Enforcement Administration		
	Private Investigator/ Security Guard	Criminal Justice/ Police Science		
	Code Enforcement Officer	Corrections	Juvenile Corrections	
	Certified Law Enforcement Planner	Criminalistics and Criminal Science	Cyber/ Computer Forensics and Counterterrorism	Natural Resources Law Enforcement and Protective Servies

Additional industry based certification information is available from the TEA CTE website.

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

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Police and Sheriff's Patrol Officers	$60,112	5,241	13%
Probation Officers and Correctional Treatment Officers	$44,054	793	9%
Correctional Officers and Jailers	$40,186	4,683	9%
Immigration and Customs Inspectors	$78,104	1,236	9%
First-Line Supervisors of Police and Detectives	$91,312	253	25%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Student organization = Texas Public Service Association

Work Based Learning Activities:
Attend court hearings and other legal procedures.

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

Successful completion of the Law Enforcement, Investigations, Security, and Corrections program of study will fulfill requirements of the Public Service Endorsement. Approved Statewide Program of Study - September 2019

COURSE INFORMATION

COURSE NAME	SERVICE ID	**PREREQUISITES** (PREQ) **COREQUISITES** (CREQ)	GRADE (Recommended)
Principles of Law, Public Safety, Corrections, and Security	13029200 (1 credit) 08873	None	9-12
Law Enforcement I	13029300 (1 credit) 08874	None (Recommended: Principles of Law, Public Safety, Corrections, and Security)	10-12
Criminal Investigation	13029550 (1 credit) 08711	None (Recommended: Principles of Law, Public Safety, Corrections, and Security)	10-12
Correctional Services	13029700 (1 credit) 08877	None (Recommended: Principles of Law, Public Safety, Corrections, and Security)	10-12
Counseling and Mental Health	13024600 (1 credit)	None (Recommended: Principles of Human Services)	11-12
Forensic Science	13029500 (1 credit) 06431	PREQ: Biology and Chemistry (Recommended: Any Law, Public Safety, Corrections, and Security career cluster course)	11-12

Law and Public Service – Law Enforcement Program

Principles of Law, Public Safety, Corrections, and Security-LAW (PRINLPCS-LAW)

Course #: 08873L ***Credits: 1***

PEIMS #: 13029200 ***Grades: 9-12***

Principles of Law, Public Safety, Corrections, and Security-Law introduces students to professions in law enforcement, protective services, corrections, firefighting, and emergency management services. Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, protective services, and corrections.

Prerequisites: None

Law Enforcement I (LAWENF1)

Course #: 08874 ***Credits: 1***

PEIMS #: 13029300 ***Grades: 10-12***

Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. Students will understand the role of constitutional law at local, state, and federal levels; the United States legal system, criminal law, law enforcement terminology, and the classification and elements of crime.

Prerequisites: Principles of Law, Public Safety, Corrections, and Security recommended

Criminal Investigation (CRINVEST)

Course #: 08711 ***Credits: 1***

PEIMS #: 13029550 ***Grades: 10-12***

Criminal Investigation is a course that introduces students to the profession of criminal investigations. Students will understand basic functions of criminal investigations and procedures and will learn how to investigate or follow up during investigations. Students will learn terminology and investigative procedures related to criminal investigation, crime scene processing, evidence collection, fingerprinting, and courtroom presentation. Through case studies and simulated crime scenes, students will collect and analyze evidence such as fingerprint analysis, bodily fluids, hairs, fibers, shoe and tire impressions, bite marks, drugs, tool marks, firearms and ammunition, blood spatter, digital evidence, and other types of evidence. **This course is only available at CHS.**

Prerequisites: Principles of Law, Public Safety, Corrections and Security recommended

Correctional Services* (CORRSRVS)

Course #: 08877 ***Credits: 1***

PEIMS #: 13029700 ***Grades: 10-12***

In Correctional Services, students will learn the role and responsibilities of a county or municipal correctional officer; discuss relevant rules, regulations, and laws of municipal, county, state, or federal facilities; and discuss defensive tactics, restraint techniques, and first aid procedures as used in the municipal, county, state, or federal correctional setting. Students will analyze rehabilitation and alternatives to institutionalization for inmates.

Prerequisites: None

Counseling and Mental Health* (COUNSMH)

Course #: 08967 ***Credits: 1***

PEIMS #: 13024600 ***Grades: 11-12***

In this course, students model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students are expected to apply knowledge of ethical and legal responsibilities, limitations on their actions and responsibilities, and the implications of their actions. Students understand how professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities.

Prerequisites: None; Principles of Human Services recommended

Forensic Science* (FORENSCI)

Course #: 06431 ***Credits: 1***

PEIMS #: 13429500 ***Grades: 11-12***

Forensic Science is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science

Prerequisite: Biology and Chemistry required; Recommended prerequisite or corequisite: any Law, Public Safety, Corrections and Security career cluster course

Public Services Endorsement

*Advanced CTE course

Military Science/JROTC

AIR FORCE JUNIOR RESERVE OFFICER TRAINING CORPS (AFJROTC)

General Qualifications:

- Cadets must be able to perform physical training/exercise to include up to a mile and half run, push-ups and sit ups.
- Cadets are required to comply with AFJROTC grooming standards (hair/shave/makeup) and be of good moral character.
- Air Force issued uniforms will be worn once a week and at other times as directed.
- Activity fee required.

Program Benefits:

- Cadets will be taught life skills, discipline, citizenship, how to lead people and manage resources
- Cadets are provided books and uniforms at no cost.
- Cadets do not incur military service obligations.
- Students may take AFJROTC in lieu of Physical Education.
- Cadets can participate in extracurricular activities: Drill Teams, Rocket Teams, PT Teams, etc.
- Cadets who successfully complete the AFJROTC program and enlist in one of the military services may begin their military career at higher rank and pay grade. (Subject to change and as directed by each military service.)
- Senior ROTC scholarships are available for qualified applicants.
- Nominations to service academies are available for qualifying students.

Program Components:

The Air Force Junior Reserve Officer Training Corps (AFJROTC) course of study consists of three (3) major program components which are taught over four years. The curriculum is instrumental in developing citizens of character dedicated to serving our nation and communities:

1. **Leadership Education (LE):** Leadership Education courses are focused on AFJROTC mission, standards, drill, and discipline. This includes, but is not limited to courses of instruction in: Citizenship, customs and courtesies; Effective communication and leadership skills; introduction to career opportunities/life skills and tools for success after high school whether that be in college, civilian or military careers; importance of managers, management, and characteristics of what it takes to be a good leader.

2. **Aerospace Science (AS):** Aerospace Science is a broad area of study introducing cadets to patriotism, national security, fundamentals of aerodynamics, rocketry, space/astronomy, aerospace history, and people, governments and cultures. The senior cadets also learn how to manage the cadet corps. Cadets are encouraged to complete high school, pursue higher educational goals and skills, and even consider the Air Force or other military service as a possible career path.

3. **Wellness and Fitness (PT):** Wellness is an official and integral part of the AFJROTC program which consists of exercise programs focused upon individual base line improvements with the goal of achieving a national standard as calculated by age and gender. The Wellness curriculum is instrumental in developing citizens of character dedicated to serving our nation and communities.

Public Services Endorsement

*Advanced CTE course

Junior ROTC

Reserve Officers Training Corps I (SUBJ1)/(ROTC1)

Course #: 04910 (PE credit)	***Credits: 1***
Course #: 09161	***Credits: 1***
PEIMS #: PES00004 (PE credit)	***Grades: 9-12***
PEIMS #: 03160100	***Grades: 9-12***

AFJROTC I consists of: (1) Leadership Education which introduces cadets to the AFJROTC mission, objectives, dress and appearance, drill and ceremony, discipline, respect, values, and ethics. (2) Aerospace Science which explores the development of flight throughout the centuries. (3) Wellness which focuses on physical fitness through exercise and team building. This course satisfies the state Physical Education credit requirement if the student has not already satisfied this credit.

Prerequisites: None

Reserve Officers Training Corps II (ROTC 2)

Course #: 09263	***Credits: 1***
PEIMS #: 03160200	***Grades: 9-12***

AFJROTC II consists of: (1) Leadership Education which stresses communication skills, personal awareness, and group/team dynamics. (2) Aerospace Science offers either Science of Flight, which focuses on how airplanes fly, weather, how flight affects the human body, and flight and land navigation or An Introduction to Global Awareness which delves into the history, religion, languages, economics, social issues, environmental concerns and human rights of countries around the globe. (3) Wellness focuses on physical fitness through exercise and team building.

Prerequisites: None

Reserve Officers Training Corps III (ROTC 3)

Course #: 09265	***Credits: 1***
PEIMS #: 03160300	***Grades: 9-12***

AFJROTC III consists of: (1) Leadership Education which helps students plan for life after high school – college, finding a job, and financial planning are a few of the topics covered. (2) Aerospace Science studies the space environment, manned space flight and exploration, and the latest advances in space technology (3) Wellness focuses on physical fitness through exercise and team building.

Prerequisites: None

Reserve Officers Training Corps IV (ROTC 4)

Course #: 09367	***Credits: 1***
PEIMS #: 03160400	***Grade 12***

AFJROTC consists of: (1) Leadership Education which provides exposure to fundamentals of leadership and management. (2) Aerospace Science which explores Policy and Organization pertaining to the military services and the United States National Security Strategy. (3) Wellness focuses on physical fitness through exercise and team building. Senior cadets are responsible for the leadership and operation of the Corps.

Prerequisites: Senior or graduating junior; ROTC I, II, or III or interview.

For more information on the JROTC Program, please contact the Air Force JROTC instructors at either Abilene High or Cooper High Schools.

Public Services Endorsement

*Advanced CTE course

Arts and Humanities Endorsement

Subject to State Board of Education approval and updates:

A student may earn an Arts and Humanities Endorsement by completing the following requirements:

1. five Social Studies courses; or
2. four levels of the same language in a language other than English; or
3. two levels of the same language in a language other than English and two levels of a different language in a language other than English; or
4. four levels of American Sign Language; or
5. a coherent sequence of four credits by selecting courses from one or two categories or disciplines in fine arts.
6. four English elective credits by selecting from the following:
    - English IV
    - Independent Study in English
    - Literary Genres
    - Creative Writing
    - Research and Technical Writing
    - Advanced Placement English Literature and Composition; or
    - International Baccalaureate Language Students A1 Higher Level; or
    - Communications Applications

Multidisciplinary Studies Endorsement

Subject to State Board of Education approval and updates:

A student may earn a Multidisciplinary Studies endorsement by completing the following requirements:

1. four advanced courses that prepare a student to enter the workforce successfully or postsecondary education without remediation from one endorsement area or among endorsement areas that are not in a coherent sequence; or
2. four credits in each of four foundation subject areas (four English, four math, four science, four social studies) to include English IV or College Prep ELA and chemistry and/or physics; or
3. four credits in Advanced Placement courses or International Baccalaureate courses, or dual credit selected from English, mathematics, science, social studies, economics, languages other than English or fine arts.

Core Academic Courses

Core Academics – English & English Learners

English I (ENG 1)

Course #: 01121 — ***Credits: 1***

PEIMS #: 03220100 — ***Grades: 9-12***

This course focuses on an integration of writing (grammatical concepts, usage, capitalization, punctuation, and spelling) with literature. It also focuses on reading improvement through drama, short story, poetry, novel, and epic. Students will learn literary forms and terms associated with selections read. Preparation for End of Course testing will be included. **English I is required for graduation.**

Prerequisites: None

PreAP English I (ENG 1 PREAP)

Course #: 01101 — ***Credits: 1***

PEIMS #: 03220100 — ***Grades: 9-12***

Using the study of various literary genres as a base, emphasis is placed on critical thinking skills by discovering meaning in literature through language, imaging, characters, action, argument, strategies, and techniques used. Writing focuses on interpretation, analysis, and creativity. PreAP classes are a sequential program designed to lead to Advanced Placement credit. Preparation for End of Course testing will be included. **English I is required for graduation.** ***Summer reading may be assigned.***

Prerequisites: None

English II (ENG 2)

Course #: 01221 — ***Credits: 1***

PEIMS #: 03220200 — ***Grades: 10-12***

This course includes an integrated program of writing and reading skills. The literature units will include poetry, novels, drama, and short stories. Students will write multi-paragraph compositions. Preparation for End of Course testing will be included. **English II is required for graduation.**

Prerequisites: English I or PreAP English I

PreAP English II (ENG 2 PREAP)

Course #: 01201 — ***Credits: 1***

PEIMS #: 03220200 — ***Grades: 10-12***

PreAP classes are a sequential program designed to lead to Advanced Placement college credit. Using world literature as a base, subject matter will be covered in depth, and analytical reasoning skills will be further developed. Writing focuses on rhetorical analysis, synthesis with MLA citations, and argumentation. Preparation for End of Course testing will be included. **English II is required for graduation.** ***Summer reading may be assigned.***

Prerequisites: English I or PreAP English I

English III (ENG 3)

Course #: 01321 — ***Credits: 1***

PEIMS #: 03220300 — ***Grades: 11-12***

This course will emphasize a study of American literature, literary criticism, and techniques for writing the research paper along with other forms of communication. A focus on literary forms and terms will continue.

Prerequisites: English II or PreAP English II

AP English Language and Composition (APENGLAN)

Course #: 01301 — ***Credits: 1***

PEIMS #: A3220100 — ***Grades: 11-12***

AP English Language and Composition emphasizes preparation for the AP Exam and uses works in American literature to teach techniques of analysis, synthesis, and evaluation applicable to any written, spoken, or graphic English composition. In addition, a research paper is required. Students are expected to take the AP Exam. ***Summer reading may be assigned.***

Prerequisites: English II or Pre AP English II recommended

English IV (ENG 4)

Course #: 01421 — ***Credits: 1***

PEIMS #: 03220400 — ***Grade: 12***

This course is a survey of British literature and the development of the English language, which gives the college bound student a background in the history and culture of the English-speaking peoples. Reading, grammar, usage, mechanics, and composition skills are integrated into the literature units. Course research projects emphasize literary criticism.

Prerequisites: English III or AP English Language and Composition recommended

AP English Literature and Composition (APENGLIT)

Course #: 01405 — ***Credits: 1***

PEIMS #: A3220200 — ***Grade: 12***

AP English Language and Literature is a college level course with emphasis on training students to become skilled readers and writers in diverse genres and modes of composition. Utilizing world literature as a base, the course concentrates on individual interpretation and response. Writing includes a research paper in MLA or APA format. Students are expected to take the AP Exam. ***Summer reading may be assigned.***

Prerequisites: English III or AP English Language and Composition recommended

Business English (BUSENGL)

Course #: 08908 — ***Credits: 1***

PEIMS #: 13011600 — ***Grade: 12***

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

Prerequisites: English III

Independent Study in English (IND ENG)

Course #: 01435 — ***Credits: 1***

PEIMS #: 03221800 — ***Grade: 11-12***

This course provides students an opportunity to do additional advanced work in English. Students will be given opportunities to conduct research, produce original works in print, develop an advanced communication-related skill, or do advanced study in a specific area of interest.

Prerequisites: English III, teacher approval and concurrent enrollment in English IV

Independent Study in English: Hebrew Scriptures (HEBSCEN)

Course #: 01161 — ***Elective Credits: ½***

PEIMS #: 03221830 — ***Grade: 9-12***

In this course students will study the characters, poetry, and narratives of the Hebrew Scriptures that are prerequisites to understanding the contributions and influence of the Bible on contemporary society and culture, including literature, art, music, mores, oratory, and public policy. The content of the course will not endorse, favor or promote any particular religion or non-religious faith or religious perspective. Offered first semester only.

Prerequisites: None

Independent Study in English: New Testament (NEWTENG)

Course #: 01162 — ***Elective Credits: ½***

PEIMS #: 03221840 — ***Grade: 9-12***

In this course students will study the characters, poetry, and narratives of the New Testament that are prerequisites to understanding the contributions and influence of the Bible on contemporary society and culture, including literature, art, music, mores, oratory, and public policy. The content of the course will not endorse, favor or promote any particular religion or non-religious faith or religious perspective. Offered second semester only.

Prerequisites: None

Creative Writing (CREAT WR)

Course #: 01323 — ***Credits: ½***

PEIMS #: 03221200 — ***Grades: 11-12***

The students will explore figurative language and literary devices by incorporating them into a piece of discourse. They will learn how to use proportion, contrast, suspense, rhetorical repetition, and various points of view. They will analyze these devices in literary examples, while at the same time considering their own work as a piece of literature, a literary test. The production of original work will be paramount in this course.

Prerequisites: 80 or above average in previous English class and teacher approval recommended

Literary Genres (LIT GENR)

Course #: 01391 — ***Credits: ½***

PEIMS #: 03221500 — ***Grades: 11-12***

Students will explore various literary genres found in the literature of the world.

Prerequisites: 80 or above average in previous English class and teacher approval recommended

Practical Writing Skills (PRACT WR)

Course #: 01433 — ***Credits: 1***

PEIMS #: 03221300 — ***Grade: 12***

The study of writing allows high school students to earn credit while developing skills necessary for composing business letters and requests for information, as well as for completing job applications and résumés. 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.

Prerequisites: English III

College Preparatory English Language Arts (CPELA)

Course #: 01459 — ***Credits: 1***

PEIMS #: CP110100 — ***Grades: 12***

The focus of the course is on applying critical reading skills for organizing, analyzing and retaining material and developing written work appropriate to the audience, purpose, situation, and length of the assignment. This course is designed to prepare students for college-level reading and writing intensive courses including ENGL 1301. Students will learn to write effective, logical essays, utilizing textual support to develop reading comprehension strategies and to analyze, synthesize and make value judgments using critical thinking. The course fulfills The Texas Success Initiative (TSI) requirements for reading and writing. Students who successfully complete this course and pass the TSI will qualify to take ENGL 1301.

Prerequisites: Three English credits prior to enrollment

Journalism (JRNLSM)

Course #: 01131 — ***Credits: 1***

PEIMS #: 03230100 — ***Grades: 9-12***

This preparatory class for either the newspaper or the yearbook includes a study of the purpose and function of the media, basic features of journalism, current trends in format, techniques and typography, study of graphics, design, layout and the printing process, preparation of press-ready materials. Study includes news, editorial, feature and headline writing and editing.

Prerequisites: 80 or above average in previous English class recommended

Advanced Journalism: Yearbook I (YBK1)

Course #: 01225 — ***Credits: 1***

PEIMS #: 03230110 — ***Grades: 9-12***

Prerequisites: Journalism; teacher approval recommended

Advanced Journalism: Yearbook II (YBK2)

Course #: 01325 — ***Credits: 1***

PEIMS #: 03230120 — ***Grades: 10-12***

Prerequisites: Advanced Journalism I; teacher approval recommended

Advanced Journalism: Yearbook III (YBK3)

Course #: 01341 — ***Credits: 1***

PEIMS #: 03230130 — ***Grades: 11-12***

Prerequisites: Advanced Journalism II; teacher approval recommended

Staffers produce a quality product while working within time constraints and budget limitations, developing financial responsibility in producing the product, planning and implementing an advertising and circulation campaign, cutting and cropping photographs, writing and editing copy, producing graphic art, writing headlines and cutlines, and editing and proofreading copy, pages, and proof pages.

Advanced Journalism: Literary Magazine I (LM1)
Course #: 01229 ***Credits: 1***
PEIMS #: 03230170 ***Grades: 11-12***
Prerequisites: Journalism; teacher approval recommended

Advanced Journalism: Literary Magazine II (LM2)
Course #: 01329 ***Credits: 1***
PEIMS #: 03230180 ***Grades: 11-12***
Prerequisites: Advanced Journalism I; teacher approval recommended

Advanced Journalism: Literary Magazine III (LM3)
Course #: 01429 ***Credits: 1***
PEIMS #: 03230190 ***Grades: 11-12***
Prerequisites: Advanced Journalism II; teacher approval recommended

Staffers produce a quality product while working within time constraints and budget limitations, developing financial responsibility in producing the product, planning and implementing an advertising and circulation campaign, cutting and cropping photographs, writing and editing copy, producing graphic art, writing headlines and cutlines, and editing and proofreading copy, pages, and proof pages.

Advanced Journalism: Newspaper I (NP1)
Course #: 01263 ***Credits: 1***
PEIMS #: 03230140 ***Grades: 9-12***
Prerequisites: Journalism; teacher approval recommended

Advanced Journalism: Newspaper II (NP2)
Course #: 01363 ***Credits: 1***
PEIMS #: 03230150 ***Grades: 10-12***
Prerequisites: Advanced Journalism I; teacher approval recommended

Advanced Journalism: Newspaper III (NP3)
Course #: 01365 ***Credits: 1***
PEIMS #: 03230160 ***Grades: 11-12***
Prerequisites: Advanced Journalism II; teacher approval recommended

Staffers produce a quality product while working within time constraints and budget limitations, developing financial responsibility in producing the product, planning and implementing an advertising and circulation campaign, cutting and cropping photographs, writing and editing copy, producing graphic art, writing headlines and cutlines, and editing and proofreading copy, pages, and proof pages.

Reading I (READ1)
Course #: 01159 ***Credits: 1***
PEIMS #: 03270700 ***Grades: 9-10***

Reading II (READ2)
Course #: 01259 ***Credits: 1***
PEIMS #: 03270800 ***Grades: 10-11***

Reading III (READ3)
Course #: 01359 ***Credits: 1***
PEIMS #: 03270900 ***Grades: 11-12***

Reading I, II, and III offers students instruction in word recognition, comprehension strategies, and vocabulary to ensure that high school students have an opportunity to read with competence, confidence, and understanding. Students are given opportunities to locate information in varied sources, to read critically, to evaluate sources, and to draw supportable conclusions. Students learn how various texts are organized and how authors choose language for effect. All of these strategies are applied in texts that cross the subject fields.

Prerequisites: None

Visual Media Analysis and Production (VI MEDIA)
Course #: 01381 ***Credits: ½***
PEIMS #: 03221700 ***Grades: 9-12***

This course involves students in the principles and techniques of the visual media as an artistic and informative medium. The students identify the purposes of visual media, analyze techniques used in visual media, recognize associated terminology, develop and use standards for analyzing visual media, recognize the origin and development of visual media, compare with other art forms, explore the emotional and intellectual effects of visual media on viewers, analyze the content and values of visual media, and study the relationship between subject matter and choice of media for presenting that subject matter. The students create projects outside of class.

Prerequisites: None

Debate I (DEBATE 1)
Course #: 01246 ***Credits: 1***
PEIMS #: 03240600 ***Grades: 9-12***

Debate II (Debate 2)
Course #: 01248 ***Credits: 1***
PEIMS #: 03240700 ***Grades: 10-12***

Debate III (DEBATE 3)
Course #: 01346 ***Credits: 1***
PEIMS #: 03240800 ***Grades: 11-12***

These courses develop skills in analysis, research, and organization and provide opportunities to prepare and present debates in a variety of debate contexts. Debate I is a pre-competition class. Students may have the opportunity to debate in at least one TFA qualifying tournament. Major emphasis in Debate II and III will be placed on TFA, NFL, and UIL competition, which includes traveling to tournaments.

Prerequisites: Debate I – none; Debate II and III – completion of Debate 1 and teacher approval recommended

Oral Interpretation I (ORALINT1)

Course #: 01237 — ***Credits: 1***

PEIMS #: 03240200 — ***Grades: 9-12***

Oral Interpretation II (ORALINT2)

Course #: 01261 — ***Credits: 1***

PEIMS #: 03240300 — ***Grades: 10-12***

Oral Interpretation III (ORALINT3)

Course #: 01361 — ***Credits: 1***

PEIMS #: 03240400 — ***Grades: 10-12***

These courses furnish opportunities for students to develop competencies in analysis, adaptation, and performance of literature for an audience. Major emphasis in Oral Interpretation II and III will be placed on TFA, NFL and UIL competition.

Prerequisites: Oral Interpretation I – none; Oral Interpretation II and III – completion of Oral Interpretation I and teacher approval recommended

Public Speaking I (PUBSPKG1)

Course #: 01255 — ***Credits: 1***

PEIMS #: 03240900 — ***Grades: 9-12***

Public Speaking II (PUBSPKG2)

Course #: 01275 — ***Credits: 1***

PEIMS #: 03241000 — ***Grades: 10-12***

Public Speaking III (PUBSPKG3)

Course #: 01277 — ***Credits: 1***

PEIMS #: 03241100 — ***Grades: 10-12***

Emphasis in this course will be on the practical application of speech skills. The course will include an exploration of the following: concepts of rhetoric, outstanding public speakers of the past and present, topic selection, research skills, organization of ideas, selection of language, preparation and presentation of speeches, delivery skills, listening skills, and evaluation skills. Students will be expected to compete in speech competition.

Prerequisites: Public Speaking I – none; Public Speaking II and III – completion of Public Speaking I and teacher approval recommended

Independent Study/Speech (IND SPCH)

Course #: 01253 — ***Credits: 1***

PEIMS #: 03241200 — ***Grades: 10-12***

Independent study in speech provides opportunity for advanced students to plan, organize, produce, perform, and evaluate a project that enables them to develop advanced skills in communication, critical thinking, and problem-solving.

Prerequisites: Public Speaking I or Oral Interpretation I or Debate I and teacher approval recommended

Communication Applications (COMMAPP)

Course #: 01145 — ***Credits: ½***

PEIMS #: 03241400 — ***Grades: 9-12***

Subject areas included in this course are the identification, analysis, development, and evaluation of communication skills necessary for professional and social success in interpersonal situations, group interactions, and personal and professional presentations.

Prerequisites: None

Professional Communications (PROFCOMM)

Course #: 08823 — ***Credits: ½***

PEIMS #: 13009900 — ***Grades: 9-12***

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

Prerequisites: None

English I for Speakers of Other Languages (ENG1 SOL)

Course #: 01123 — ***Credits: 1***

PEIMS #: 03200600 — ***Grades: 9-10***

English II for Speakers of Other Languages (ENG2 SOL)

Course #: 01223 — ***Credits: 1***

PEIMS #: 03200700 — ***Grades: 9-10***

The goal of these classes is to increase the English proficiency of the students enrolled in these classes. These courses may be substituted for English I and II for immigrant students with limited English proficiency.

Prerequisites: Designated Limited English Proficiency (LEP)

English Language Development and Acquisition (ELDA1) *first time taken*

Course #: 01128 — ***Credits: 1***

PEIMS #: 03200800 — ***Grades: 9-12***

English Language Development and Acquisition (ELDA2) *second time taken*

Course #: 01228 — ***Credits: 1***

PEIMS #: 03200810 — ***Grades: 10-12***

This course is designed to provide instructional opportunities for secondary recent immigrant students with little or no English proficiency. These students have scored at the negligible/very limited academic language level of the state-approved English oral language proficiency tests. This course enables students to become increasingly more proficient in English in all four language domains.

Prerequisites: Designated Limited English Proficiency (LEP)

Corequisites: Must be taken concurrently with a course that awards English credit such as ESOL I-II or English III-IV. A student may take this course up to two times for credit when paired with different corequisites.

Core Academics - Fine Arts

Note: For Communications Applications, Debate, Oral Interpretation, Public Speaking and Professional Communications course descriptions, see the English Language Arts and Reading section, pages 105-106.

Art I (ART 1)

Course #: 02111 ***Credits: 1***

PEIMS #: 03500100 ***Grades: 9-12***

Art I provides the student an opportunity to develop skills in design, drawing, painting, printmaking, and sculpture. It includes four basic strands: perception; creative expression/performance; historical/cultural heritage; and critical evaluation. These provide unifying structures for organizing the knowledge and skills students are expected to acquire. Students will be required to use memory, imagination, and real life objects/experiences as sources for art works. This course cannot be entered at mid-term.

Prerequisites: None

PreAP Art I (ART 1 PREAP)

Course #: 02113 ***Credits: 1***

PEIMS #: 03500100 ***Grades: 9-12***

This course is designed for the art student that has shown advanced skills in middle school art. The student will continue developing (1) a sense of quality in their work and (2) decisive use of art elements and principles. This course cannot be entered at mid-term.

Prerequisites: Teacher approval recommended

PreAP Art II – Drawing (ART2DRAW PREAP)

Course #: 02213 ***Credits: 1***

PEIMS #: 03500500 ***Grades: 9-12***

This course requires that students develop basic drawing skills using a variety of media. Drawing is approached as a final product. The basic strands established in Art I will be emphasized. This course cannot be entered at mid-term.

Prerequisites: Art I; teacher approval recommended

PreAP Art II – Sculpture (ART2SCLP PREAP)

Course #: 02224 ***Credits: 1***

PEIMS #: 03501000 ***Grades: 9-12***

In this course students will construct sculptures using additive and subtractive methods in a variety of media. 3D design concepts such as form, plane and light, depth and space will be explored. This course cannot be entered at mid-term.

Prerequisites: Art I; teacher approval recommended

PreAP Art II – Photography (ART2PHTO PREAP)

Course #: 02229 ***Credits: 1***

PEIMS #: 03501200 ***Grades: 9-12***

This course introduces the student to advanced applied and aesthetic aspects of digital photography. Content includes a study of different digital camera types, parts and operation, fundaments of digital photography and imaging, composition, and natural and artificial lighting. This course cannot be entered at mid-term.

Prerequisites: Art I; teacher approval recommended

PreAP Art III– Drawing (ART3DRAW PREAP)

Course #: 02325 ***Credits: 1***

PEIMS #: 03501300 ***Grades: 10-12***

In this course, the student is required to draw in depth and will develop the ability to plan and execute drawings as the basis for painting, printmaking, and sculpture. This is a prerequisite for AP 2D Design Portfolio, AP 3D Design Portfolio, and AP Art Drawing Portfolio. This course cannot be entered at mid-term.

Prerequisites: Art II Drawing; teacher approval recommended

PreAP Art III– Photography (ART3PHTO PREAP)

Course #: 02423 ***Credits: 1***

PEIMS #: 03502200 ***Grades: 10-12***

This course introduces the student to advanced digital photography techniques, creative digital imaging, darkroom and alternative processes, and printing for competitions and exhibitions. Emphasis is placed upon preparation for entry into AP Two-Dimensional Design Portfolio (Photography/Digital Imaging). This course cannot be entered at mid-term.

Prerequisites: Art II Photography; teacher approval recommended

AP Studio Art: Drawing Portfolio (APSTARTD)

Course #: 02301 ***Credits: 1***

PEIMS #: A3500300 ***Grades: 11-12***

The requirements for this course reflect three major concerns: a sense of quality in a student's work; the student's concentration on a particular visual interest or problem; and the student's need for breadth of experience in the formal, technical, and expressive means of the arts. During this course, the student will be introduced to a variety of problems in drawing. This course cannot be entered at mid-term. Students are expected to submit an AP portfolio.

Prerequisites: Art II; teacher approval recommended

AP Studio Art: Two-Dimensional Design Portfolio (AP2DDP)

Course #: 02414 ***Credits: 1***

PEIMS #: A3500400 ***Grades: 10-12***

This portfolio is intended to address a very broad interpretation of two-dimensional design issues. This type of design involves purposeful decision-making about the use the elements and principles of art in an integrative way. The elements of design (line, shape, illusion of space, illusion of motion, pattern, texture, value, and color) are like a palette of possibilities that artists use to express themselves. For this portfolio, students are asked to demonstrate proficiency in two-dimensional design using a variety of art forms such as graphic design, typography, digital imaging, photography, collage, fabric design, weaving, illustration, painting, and printmaking. This course cannot be entered at mid-term. Students are expected to submit an AP portfolio.

Prerequisites: Art II; teacher approval recommended

AP Studio Art: Three-Dimensional Design Portfolio (AP3DDP)

Course #: 02514 — ***Credits: 1***

PEIMS #: A3500500 — ***Grades: 10-12***

This portfolio is intended to address a broad interpretation of sculptural issues in depth and space. These may include mass, volume, form, plane, light, and texture. Such elements and concepts can be articulated through additive, subtractive, and/or fabrication processes. A variety of approaches to representation, abstraction, and expression may be part of the student's portfolio. These might include, among others, traditional sculpture, architectural models, apparel, ceramics, three-dimensional fiber art or metal work. Students are expected to submit an AP Portfolio. This course cannot be entered at mid-term.

Prerequisites: Art II; teacher approval recommended

AP History of Art (APHISART)

Course #: 02314 — ***Credits: 1***

PEIMS #: A3500100 — ***Grades: 11-12***

This course is designed to provide the same benefits to secondary school students as are provided by an introductory college course in art history and the understanding and enjoyment of architecture, sculpture, painting, and other art forms with an historical and cultural context. The students will examine major forms of artistic expression and learn to look at works of art critically, with intelligence and sensitivity, and to articulate what they see or experience. This course cannot be entered at mid-term. Students are expected to take the AP exam.

Prerequisites: Teacher approval recommended

Theatre Arts I (TH1)

Course #: 02231 — ***Credits: 1***

PEIMS #: 03250100 — ***Grades: 9-12***

This is the first course in theatre, introducing theatre as an art, and beginning the study of the cultural contributions of the theatre, its plays and its performance, its production styles and techniques. The course introduces basic acting, the role of the actor in interpreting dramatic literature, and the historical evolution of performance styles. This course cannot be entered at mid-term.

Prerequisites: None

Theatre Arts II (TH2)

Course #: 02331 — ***Credits: 1***

PEIMS #: 03250200 — ***Grades: 9-12***

Theatre Arts III (TH3)

Course #: 02431 — ***Credits: 1***

PEIMS #: 03250300 — ***Grades: 10-12***

Theatre Arts IV (TH4)

Course #: 02433 — ***Credits: 1***

PEIMS #: 03250400 — ***Grade: 11-12***

These courses build on the background established in Theatre I, continuing the study of the cultural contributions of the theatre, its plays, and its performance and production styles and techniques. Basic principles of production are studied and applied through performances in various theatrical modes. Each level of theatre will require a greater degree of understanding and competency in technique and performance. This course cannot be entered at mid-term.

Prerequisites: Theatre I, audition and teacher approval

Technical Theatre I (TH1TECH)

Course #: 02241 — ***Credits: 1***

PEIMS: 03250500 — ***Grades: 10-12***

Technical Theatre II (TH2TECH)

Course #: 02341 — ***Credits: 1***

PEIMS: 03250600 — ***Grades: 11-12***

Technical Theatre III (TH3TECH)

Course #: 02441 — ***Credits: 1***

PEIMS: 03251100 — ***Grades: 12***

This course combines theories of design and stage-craft techniques with construction and operation of the various elements of technical theatre. This course cannot be entered at mid-term.

Prerequisites: Teacher approval

Theatre Production I (TH1PROD)

Course #: 02381 — ***Credits: 1***

PEIMS #: 03250700 — ***Grades: 9-12***

Theatre Production II (TH2PROD)

Course #: 02383 — ***Credits: 1***

PEIMS #: 03250800 — ***Grades: 10-12***

Theatre Production III (TH3PROD)

Course #: 02385 — ***Credits: 1***

PEIMS #: 03250900 — ***Grades: 11-12***

Theatre Production IV (TH4PROD)

Course #: 02387 — ***Credits: 1***

PEIMS #: 03251000 — ***Grade: 12***

Students will develop and practice acting concepts, skills, and many technical phases of theatre production. Students will also be provided opportunities to grow aesthetically through participation and observation of theatre events.

Prerequisites: Audition and teacher approval

Theatre and Media Communications 1 (TH1MCOM)

Course #: 02389 — ***Credits: 1***

PEIMS #: 03251300 — ***Grades: 9-12***

Theatre and Media Communication 1 provides students with a rigorous and relevant experiential study of theatre along with video and audio design. Creation and analysis of student performances will be balanced with explorations into contemporary practices in digital media. Students will learn how to bridge traditional stagecraft with current technology applications to create new digital media. The course will include a major project to address local issues within the community. This project will afford students an opportunity to learn and practice creative research skills, develop a narrative, engage an audience, and connect an online community to their project.

Prerequisites: None

Band I (MUS1BAND) *Year 1 only*	
Course #: 02652	***Credits: 1***
PEIMS #: 03150100	***Grades: 9-12***
Band II (MUS2BAND) *Years 2 and 4 only*	
Course #: 02752	***Credits: 1***
PEIMS #: 03150200	***Grades: 10-12***
Band III (MUS3BAND) *Year 3 only*	
Course #: 02852	***Credits: 1***
PEIMS #: 03150300	***Grades: 11-12***
This course is open by audition to students with previous instrumental training. First semester is devoted to preparation for marching contests, football halftime, pep rallies, parades, and Christmas literature. Second semester focuses on concerts, contests, festivals, and individual achievements such as solo and ensemble contests and region, area, and state band tryouts.	
Prerequisites: Director approval	

Band Flag/Guard I (MUS1BAND) *Year 1 only*	
Course #: 02153	***Credits: 1***
PEIMS: 03150100	***Grades: 9-12***
Band Flag/Guard II (MUS2BAND) *Years 2 and 4 only*	
Course #: 02253	***Credits: 1***
PEIMS: 03150200	***Grades: 10-12***
Band Flag/Guard III (MUS3BAND) *Year 3 only*	
Course #: 02353	***Credits: 1***
PEIMS: 03150300	***Grades: 11-12***
This course includes fundamentals of color guard/winter guard technique including flags, rifles, sabers, and other dance principals. Students will participate in the marching band during the fall semester and compete at winter guard competitions and shows in the spring. Placement is by audition.	
Prerequisites: Director approval	

Orchestra I (MUS1ORCH) *Year 1 only*	
Course #: 02658	***Credits: 1***
PEIMS #: 03150500	***Grades: 9-12***
Orchestra II (MUS2ORCH) *Years 2 and 4 only*	
Course #: 02758	***Credits: 1***
PEIMS #: 03150600	***Grades: 10-12***
Orchestra III (MUS3ORCH) *Year 3 only*	
Course #: 02858	***Credits: 1***
PEIMS #: 03150700	***Grades: 11-12***
This is a course for orchestra students. Style and technical skills are explored through the use of a variety of orchestral literature.	
Prerequisites: Director approval	

Jazz Band (MUS1JZBN) *Year 1 only*	
Course #: 02657	***Credits: 1***
PEIMS #: 03151300	***Grades: 9-12***
Jazz Band (MUS2JZBN) *Years 2 and 4 only*	
Course #: 02757	***Credits: 1***
PEIMS #: 03151400	***Grades: 10-12***
Jazz Band (MUS3JZBN) *Year 3 only*	
Course #: 02857	***Credits: 1***
PEIMS #: 03151500	***Grades: 11-12***
Jazz band explores various musical styles including jazz, blues, Funk, big band, cool, rock, and other popular forms. Available at Abilene High and Cooper High Schools.	
Prerequisites: Member of band and director approval	

Steel Drum Band (MUS1INEN) *Year 1 only*	
Course #: 02656	***Credits: 1***
PEIMS #: 03151700	***Grades: 9-12***
Steel Drum Band (MUS2INEN) *Years 2 and 4 only*	
Course #: 02756	***Credits: 1***
PEIMS #: 03151800	***Grades: 10-12***
Steel Drum Band (MUS3INEN) *Year 3 only*	
Course #: 02854	***Credits: 1***
PEIMS #: 03151900	***Grades: 11-12***
This course explores various musical styles including Afro-Cuban, Latin, and Caribbean. Students will learn the origins of steel drums and the history of the Trinidad/Tobago region. Outside performances are an expectation of this course. **(Abilene High school only)**	
Prerequisites: Music reading ability, audition, and director approval	

Revolution Strings (MUS1INEN) *Year 1 only*	
Course #: 02766	***Credits:1***
PEIMS #: 03151700	***Grades: 9-12***
Revolution Strings (MUS2INEN) *Years 2 and 4 only*	
Course #: 02866	***Credits:1***
PEIMS #: 03151800	***Grades: 10-12***
Revolution Strings (MUS3INEN) *Year 3 only*	
Course #: 02966	***Credits:1***
PEIMS #: 03151900	***Grades: 11-12***
Orchestra ensemble (Revolution Strings) includes auditioned string students who demonstrate advanced skills in performance. This course includes various styles including jazz, pop, Celtic, country/western, and other styles. Students incorporate choreography and dance into performance on a regular basis.	
Prerequisites: Director approval	

To ensure proper credit to students who persist in the fine arts program throughout their high school career, please follow notations in red to accurately schedule students and ensure credit.

Choir I (MUS1CHOR) *Year 1 only*	
Course #: 02660	***Credits: 1***
PEIMS #: 03150900	***Grades: 9-12***
Choir II (MUS2CHOR) *Years 2 and 4 only*	
Course #: 02760	***Credits: 1***
PEIMS #: 03151000	***Grades: 10-12***
Choir II (MUS3CHOR) *Year 3 only*	
Course #: 02860	***Credits: 1***
PEIMS #: 03151100	***Grades: 11-12***
These courses are open to students with and without previous vocal training. There is continued vocal training with emphasis on tone production, sight-reading, and a variety of choral literature.	
Prerequisites: Director approval	

Show Choir (MUS1VOEN) *Year 1 only*	
Course #: 02750	***Credits: 1***
PEIMS #:03152100	***Grades: 9-12***
Show Choir (MUS2VOEN) *Years 2 and 4 only*	
Course #: 02850	***Credits: 1***
PEIMS #: 03152200	***Grades: 10-12***
Show Choir (MUS3VOEN) *Year 3 only*	
Course #: 02950	***Credits: 1***
PEIMS #: 03152300	***Grades: 11-12***
Vocal ensemble includes auditioned vocal students who demonstrate advanced skills in vocal performance. This course includes various styles including jazz, pop, and Broadway musicals. Students will incorporate choreography and dancing in performance on a regular basis.	
Prerequisites: Director approval	

Musical Theatre I (MUSTH1)	
Course #: 02390	***Credits: 1***
PEIMS #: 03251900	***Grades: 9-12***
Musical Theatre II (MUSTH2)	
Course #: 02391	***Credits: 1***
PEIMS #: 03252000	***Grades: 10-12***
Musical Theatre III (MUSTH3)	
Course #: 02392	***Credits: 1***
PEIMS #: 03252100	***Grades: 11-12***
Musical Theatre IV (MUSTH4)	
Course #: 02393	***Credits: 1***
PEIMS #: 03251000	***Grade: 12***
Musical Theatre is an interactive class focusing on vocal training, dance styles, character analysis and creation and audition techniques. Students will study the work of the actor/singer/dancer and use their gained knowledge to develop as performers. Students will prepare and present as soloists as well as members of small groups and larger ensembles in speaking, singing, and dance disciplines. Since this is a workshop course, students will prepare material for class presentation and critique. Members of the class will have hands-on, performance-based opportunities to practice musical theatre technique. Students will need to provide appropriate clothing, jazz shoes, and character shoes for this course.	
Prerequisites: Audition	

AP Music Theory (APMUSTHY)	
Course #: 02701	***Credits: 1***
PEIMS #: A3150200	***Grades: 11-12***
This course is designed to prepare students to take the College Board AP Music Theory exam. This course is designed to develop a student's ability to recognize, understand and describe the basic materials and processes of music that are heard or presented in a score. This course cannot be entered at mid-term. Students are expected to take the AP exam.	
Prerequisites: Teacher approval and ability to read music	

Dance I (DANCE 1)	
Course #: 02066	***Credits: 1***
PEIMS #: 03830100	***Grades: 9-12***
Dance II (DANCE 2)	
Course #: 02366	***Credits: 1***
PEIMS #: 03830200	***Grades: 10-12***
Dance III (DANCE 3)	
Course #: 02266	***Credits: 1***
PEIMS #: 03830300	***Grades: 11-12***
Dance IV (DANCE 4)	
Course #: 02166	***Credits: 1***
PEIMS #: 03830400	***Grades: 12***
Dance may earn either Fine Arts or PE credit, but not both simultaneously. Fine Arts credit is available only to courses taught by an SBEC certified Dance instructor. Dance students develop perceptual thinking, movement principles and technical skills as they explore choreographic and performance qualities. Students develop self-discipline and healthy bodies that move expressively, efficiently, and safely while recognizing dance as a vehicle for understanding historical and cultural relevance, increasing an awareness of heritage and traditions of their own and others, and enabling them to participate in a diverse society.	
Prerequisites: Director approval	

Applied Music I (MUS1APL)	
Course #: 02710	***Credits: 1***
PEIMS #: 03152500	***Grades: 10-12***
Applied Music II (MUS2APL)	
Course #: 02711	***Credits: 1***
PEIMS #: 03152600	***Grades: 11-12***
Applied Music III (MUS3APL)	
Course #: 02712	***Credits: 1***
PEIMS #: 03152601	***Grades: 12***
Applied Music is a course for band students intent to advance their individual musical skill set. Areas addressed include, but are not limited to the following: technique and tone development, All-Region and Area audition preparation, Solo and Ensemble repertoire exploration, music listening analysis, an overview of musical historical context, and additional tailored instruction based on the individual needs of each student.	
Local Prerequisites: one year high school band	

To ensure proper credit to students who persist in the fine arts program throughout their high school career, please follow notations in red to accurately schedule students and ensure credit.

Core Academic Courses

Core Academics - Health

Health Education (HLTH ED)	
Course #: 04201	***Credits: ½***
PEIMS #: 03810100	***Grades: 9-12***
Topics are addressed that assist the students in understanding a healthy lifestyle, including body systems, substance abuse, accident prevention, human sexuality, mental health, disease control, self-esteem, and decision-making.	
Prerequisites: Recommended for 9th grade students	

Advanced Health Education (ADHLTHED)	
Course #: 04301	***Credits: ½***
PEIMS #: 03810200	***Grades: 9-12***
Students are provided opportunities for researching, discussing, and analyzing health issues. This higher level of involvement provides students with experiences designed to reinforce positive health behaviors. Students are given the opportunity to learn more about technology, how it affects health, and how to use electronic technology to gain health information. The emphasis in this course is less related to learning facts and more related to providing students with the skills necessary to access their own health information and services and become health literate.	
Prerequisites: Health Education recommended	

Sports Medicine I (SPORTMD1)	
Course #: 04205	***Credits: ½-1****
PEIMS #: N1150040	***Grades: 10-12***
Prerequisites: None	
Sports Medicine II (SPORTMD2)	
Course #: 04207	***Credits: 1***
PEIMS #: N1150041	***Grades: 10-12***
Prerequisites: Sports Medicine I	
Sports Medicine III (SPORTMD3)	
Course #: 04209	***Credits:1***
PEIMS #: N1150044	***Grades: 11-12***
Prerequisites: Sports Medicine II	
This course provides an opportunity for the study and application of the components of sports medicine including but not limited to sports medicine related careers, organizational and administrative considerations, prevention of athletic injuries, recognition, evaluation, and immediate care of athletic injuries, rehabilitation and management skills, taping and wrapping techniques, first aid/CPR/AED, emergency procedures, nutrition, sports psychology, human anatomy and physiology, therapeutic modalities, and therapeutic exercise. Individualized and independent assignments will be included in this course. This course will involve outside-of-class time, homework, and time required working with athletes and athletic teams. This course complements the classroom preparation of a student wishing to work in the sports medicine arena by working as student athletic trainer with the various high school sports teams. **Offered at Abilene High School only.** *Ninth graders may take the course during the Spring semester with teacher approval.	

Core Academics - Languages Other Than English

Spanish I (SPAN I)

Course #: 03141 ***Credits: 1***

PEIMS #: 03440100 ***Grades: 9-12***

Students will acquire listening, speaking, reading, and writing skills, and concepts at the novice level that result in the understanding of simple, routine situations. Students will also be made aware of concepts which result in the knowledge and awareness of the history and culture of another people. This course cannot be entered at mid-term.

Prerequisites: None

PreAP Spanish I (SPAN I PREAP)

Course #: 03144 ***Credits: 1***

PEIMS #: 03440100 ***Grades: 9-12***

This college preparatory course will focus on skills necessary for success in Advanced Placement classes. The course content will be covered in greater depth and/or at an accelerated pace. Student skills will include listening, speaking, reading, and writing of concepts at the novice level that will result in the understanding of simple, routine situations. Students will be made aware of the history and culture of another people. This course cannot be entered at mid-term.

Prerequisites: None

Spanish II (SPAN 2)

Course #: 03244 ***Credits: 1***

PEIMS #: 03440200 ***Grades: 9-12***

Students will continue to acquire listening, speaking, reading, and writing skills, and concepts at the novice level that result in the understanding of most routine questions, statements, and commands along with the ability to respond and to reproduce vocabulary sufficient to express themselves in everyday situations. Students will study the history and culture of another people within a range of different situations. Students will be aware of generalizations about how a language operates and the skills that result in the application of the language learning process to the study of other languages. This course cannot be entered at mid-term.

Prerequisites: Spanish I

PreAP Spanish II (SPAN 2 PREAP)

Course #: 03344 ***Credits: 1***

PEIMS #: 03440200 ***Grades: 9-12***

This college preparatory course will focus on skills necessary for success in Advanced Placement classes. Subject matter will be covered in greater depth and/or at an accelerated pace. Students will acquire listening, speaking, reading, and writing skills that result in the understanding of most routine questions, statements, and commands along with the ability to respond and to reproduce vocabulary sufficient to express themselves in everyday situations. Students will study the history and culture of another people within a range of different situations. This course cannot be entered at mid-term.

Prerequisites: Spanish 1 or PreAP Spanish I

PreAP Spanish III (SPAN 3 PREAP)

Course #: 03249 ***Credits: 1***

PEIMS #: 03440300 ***Grades: 10-12***

This preparatory course covers material in depth and prepares the student for AP Spanish IV. The following skills will be included in the course: listening and speaking on an intermediate-ability level emphasizing extemporaneous speech and comprehension of native-speakers; reading and writing on an intermediate-ability level emphasizing classical and/or contemporary literature and original compositions; cultural experiences emphasizing the awareness and knowledge of cultural differences; grammatical structure on an intermediate-ability level emphasizing mechanics and vocabulary. This course cannot be entered at mid-term.

Prerequisites: Spanish II or PreAP Spanish II

AP Spanish IV (APSPALAN)

Course #: 03446 ***Credits: 1***

PEIMS #: A3440100 ***Grades: 10-12***

This course emphasizes the use of the language for active communication and develops the following skills: the ability to comprehend formal and informal spoken Spanish; acquisition of vocabulary and a grasp of structure to allow the easy, accurate reading of newspaper and magazine articles, as well as of modern literature in Spanish; the ability to compose expository passages; and the ability to express ideas orally with accuracy and fluency. Course emphasizes preparation for the AP Spanish Language Exam. This course cannot be entered at mid-term. Students are expected to take the AP exam.

Prerequisites: PreAP Spanish III or teacher recommendation

AP Spanish V (APSPALIT)

Course #: 03546 ***Credits: 1***

PEIMS #: A3440200 ***Grades: 11-12***

This course emphasizes advanced reading and writing skills; introduces students to the diverse literature written in Spanish and helps them reflect on the many voices and cultures with an extensive reading list including works from seven centuries of Hispanic literature; course also requires advanced ability to express ideas in writing with accuracy and fluency; course emphasizes preparation for the AP Spanish Literature Exam. This course cannot be entered at mid-term. Students are expected to take the AP exam.

Prerequisites: AP Spanish IV or teacher recommendation

French I (FREN 1)

Course #: 03221 ***Credits: 1***

PEIMS #: 03410100 ***Grades: 9-12***

Listening, speaking, reading and writing skills, and concepts that result in the understanding of most routine situations will be taught. Students will be made aware of concepts which result in the knowledge and awareness of the history and cultures of other people. This course cannot be entered at mid-term.

Prerequisites: None

French II (FREN 2)

Course #: 03224 ***Credits: 1***

PEIMS #: 03410200 ***Grades: 9-12***

The students will acquire listening, speaking, reading and writing skills, and concepts that result in the understanding of most routine questions, statements, and commands along with the ability to respond and to reproduce vocabulary sufficient to express themselves in everyday situations. The students will study the history and cultures of other people within a range of different situations. The students will be aware of generalizations about how a language operates and the skills that result in the application of the language learning process to the study of other languages. This course cannot be entered at mid-term.

Prerequisites: French I

PreAP French II (FREN 2 PREAP)

Course #: 03326 ***Credits: 1***

PEIMS #: 03410200 ***Grades: 10-12***

This college preparatory course will focus on skills necessary for success in Advanced Placement classes. Subject matter will be covered in greater depth and/or at an accelerated pace. Students will acquire listening, speaking, reading, and writing skills that result in the understanding of most routine questions, statements, and commands along with the ability to respond and to reproduce vocabulary sufficient to express themselves in everyday situations. Students will study the history and cultures of other people within a range of different situations. This course cannot be entered at mid-term.

Prerequisites: French I

PreAP French III (FREN 3 PREAP)

Course #: 03228 ***Credits: 1***

PEIMS #: 03410300 ***Grades: 10-12***

This college preparatory course covers material in depth and prepares the student for AP French 4. The following skills will be included in the course: listening and speaking on an intermediate-ability level emphasizing extemporaneous speech and comprehension of native-speakers; reading and writing on an intermediate-ability level emphasizing classical and/or contemporary literature and original composition; culture experiences emphasizing the awareness and knowledge of cultural differences; grammatical structure on an intermediate-ability level emphasizing mechanics vocabulary. This course cannot be entered at mid-term.

Prerequisites: French II

AP French IV (APFR LAN)

Course #: 03328 ***Credits: 1***

PEIMS #: A3410100 ***Grades: 10-12***

This course emphasizes the use of the language for active communication and develops the following skills: the ability to understand spoken French in various contexts: a French vocabulary sufficiently ample for reading newspaper and magazine articles, literary texts, and other non-technical writings without dependence on a dictionary; and for viewing, understanding and responding to global current events via TV and/or technology; and the ability to express ideas coherently, resourcefully, and with reasonable fluency and accuracy in both written and spoken French. Course emphasizes preparation for the AP French Language Exam. This course cannot be entered at mid-term. Students are expected to take the AP exam.

Prerequisites: French III

Core Academics - Mathematics

Algebra I (ALG 1)

Course #: 05141 — ***Credits: 1***

PEIMS #: 03100500 — ***Grades: 9-12***

Algebra I provides the foundation concepts for Algebra 2, Geometry, and all high school mathematics. It establishes concepts in the areas of number operations, quantitative reasoning, algebraic thinking, and symbolic reasoning. An emphasis is placed on function concepts, the relationship between equations, and the use of these to model real world applications. Preparation for End of Course testing will be included.

Prerequisites: Grade 8 Math or its equivalent

PreAP Algebra I (ALG 1 PREAP)

Course #: 05101 — ***Credits: 1***

PEIMS #: 03100500 — ***Grades: 9-12***

This college-preparatory course covers the same material presented in regular Algebra I. Concepts will be explored in greater depth and problem-solving will be more varied and demanding. Technology including the graphing calculator and the computer will be used to a greater extent than in Algebra I. Additional topics to be covered are geometric representations of algebraic situations, quadratic systems with parabolas, and absolute value equations and inequalities. Preparation for End of Course testing will be included.

Prerequisites: Grade 8 Math or its equivalent

Geometry (GEOM)

Course #: 05251 — ***Credits: 1***

PEIMS #: 03100700 — ***Grades: 9-12***

Geometry consists of the study of geometric figures of zero, one, two, and three dimensions and the relationships among them. Connections are made between geometric concepts and solving real world problems by using a variety of representations (concrete, pictorial, algebraic, and coordinate), tools, technology, applications and modeling, logical reasoning, justification, and proof.

Prerequisites: Algebra I

PreAP Geometry (GEOM PREAP)

Course #: 05203 — ***Credits: 1***

PEIMS #: 03100700 — ***Grades: 9-12***

This college-preparatory course will contain the Texas Essential Knowledge and Skills in the regular geometry course. Concepts will be explored in greater depth and with rigor designed to properly prepare students to be successful in Pre-Advanced Placement Algebra 2.

Prerequisites: Algebra I

Mathematical Models with Applications (MTHMOD)

Course #: 05135 — ***Credits: 1***

PEIMS #: 03102400 — ***Grades: 10-12***

This course revisits Algebra I and Geometry concepts as a bridge to Algebra II. In addition, students will be introduced to applied math in real world situations, including personal finance (budgeting, insurance, savings, and credit.) This course may not fulfill the math entrance requirements of some colleges. Semesters are independent of each other.

Prerequisites: Algebra I; Geometry recommended

Algebra II (ALG 2)

Course #: 05241 — ***Credits: 1***

PEIMS #: 03100600 — ***Grades: 9-12***

Progression through the algebra concepts taught in this course allows students to develop logical reasoning and problem-solving skills vital in today's technology-oriented world. It prepares students for either school-to-work programs or progression to higher mathematics needed for post-secondary studies and emphasizes the need to master functional relationships and employ them to problem-solve real situations. Technology applications allow table building, coordinate graphing, algebraic analysis, and computation. Content encompasses the study of algebraic functions using data analysis, matrices, factoring, complex numbers, properties of exponents, graphs, and tables. The relationships between algebra and geometry are continuously integrated into the course. Abstract algebra concepts and their geometric graphs are linked together for such functions as linear, quadratic, radical, inverse, exponential, and logarithmic functions. Graphs of circles, ellipses, parabolas, and hyperbolas (the conic sections), and their respective algebraic descriptions are also studied and applied.

Prerequisites: Algebra I; Geometry recommended; Geometry can be taken concurrently

PreAP Algebra II (ALG 2 PREAP)

Course #: 05201 — ***Credits: 1***

PEIMS #: 03100600 — ***Grades: 9-12***

This college-preparatory course covers the same material presented in regular Algebra II in addition to other topics that will better prepare students for Pre-Advanced Placement Pre-Calculus. Concepts will be explored in greater depth and problem-solving will be more varied and demanding.

Prerequisites: Algebra I; Geometry recommended; Geometry can be taken concurrently

Pre-Calculus (PRE CALC)

Course #: 05353 — ***Credits: 1***

PEIMS #: 03101100 — ***Grades: 10-12***

Pre-Calculus combines the use of the real number coordinate system with an extensive study of functions and their graphs, including trigonometric functions and their periodicity, inverse, composite, polynomial, rational, exponential, and logarithmic functions. Functions, sequences and series, conic sections, parametric representations, and vectors will be used to model real life situations.

Prerequisites: Algebra I, Geometry, Algebra II

PreAP Pre-Calculus (PRE CALC PREAP)

Course #: 05301 — ***Credits: 1***

PEIMS #: 03101100 — ***Grades: 10-12***

This college-preparatory course is intended for students who have displayed a high degree of understanding in their previous math courses. It is designed to prepare students for AP Calculus. It includes the same concepts covered in Pre-Calculus but explored in greater depth, and problem solving will be more varied and demanding.

Prerequisites: Algebra I, Geometry, Algebra II

AP Calculus AB (APCALCAB)

Course #: 05403 ***Credits: 1***

PEIMS #: A3100101 ***Grades: 11-12***

This course will follow the course description for AP Calculus AB as defined by the college board. Students will be taught the Texas Essential Knowledge and Skills of calculus such as applying limit theorems, continuity, differentiation and integration of algebraic and transcendental (trigonometric, exponential, and logarithmic) functions. Also, applications of first and second derivatives including curve sketching, velocity and acceleration, maxima and minima, and related rates are covered. Indefinite and definite integration including applications are presented. Other subjects covered are differentiating composite functions using the chain rule, implicit differentiation problems, and other integration methods. Graphing calculator skills are required for solving some problems. Preparation for the College Board AP Calculus Exam is emphasized. Students are expected to take the AP exam.

Prerequisites: Pre-Calculus

AP Calculus BC (APCALCBC)

Course #: 05407 ***Credits: 1***

PEIMS #: A3100102 ***Grades: 11-12***

This course is equivalent to a first-semester college calculus course and the subsequent single-variable calculus course. It follows the curriculum as presented by the College Board to emphasize the big ideas of limits, derivatives, integrals, and series. Work focuses on mathematical proficiencies including reasoning with definitions and theorems, connecting concepts, implementing algebraic/computational processes, connecting multiple representations, building notational fluency, and communicating scholarly work. Preparation for the College Board AP Calculus Exam is emphasized. Students are expected to take the AP exam.

Prerequisites: Pre-Calculus

Statistics and Business Decision Making* (STATSBDM)

Course #: 08840 ***Credits: 1***

PEIMS #: 13016900 ***Grades: 11-12***

This course in an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions and will determine appropriateness of methods used to collect data to ensure conclusions are valid.

Prerequisites: Algebra II

AP Statistics (APSTATS)

Course #: 05405 ***Credits: 1***

PEIMS #: A3100200 ***Grades: 11-12***

This course will follow the course description for AP Statistics as defined by the college board. Students will be introduced to the major concepts and tools to collect, analyze, and draw conclusions from data. Topics are divided into four major themes: exploratory analysis, planning a study, probability, and statistical inference. Preparation for the College Board AP Statistics Exam is emphasized. Students are expected to take the AP exam.

Prerequisites: Algebra II and Geometry; Juniors concurrently enrolled in Pre-Calculus recommended

Mathematical Applications in Agriculture, Food and Natural Resources* (MATHAFNR)

Course #: 08919 ***Credits: 1***

PEIMS #: 13001000 ***Grades: 10-12***

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

Prerequisites: Algebra I. Recommended 1 credit from the courses in the Agriculture, Food, and Natural Resources cluster.

College Preparatory Math (CPMAT)

Course #: 05259 ***Credits: 1***

PEIMS #: CP111200 ***Grade: 12***

This course is designed to prepare 12th grade students for success in entry-level college math courses. Topics include the Real Number System, Algebraic Reasoning, Functions, Equations, Inequalities, and Quadratics. Students will work to increase math skills and problem-solving ability as they prepare for success on the TSI assessment as a measure of college readiness. This is an advanced fourth math credit for the Foundation Plan and Endorsements. The course is an elective credit for other graduation plans. It is not eligible for dual credit. Students may earn ½ credit for one semester.

Prerequisites: Three math credits prior to enrollment

Financial Mathematics (FINMATH)

Course #: 08939 ***Credits: 1***

PEIMS #: 1301800 ***Grades: 10-12***

This course is about personal money management. Students will apply critical-thinking to analyze personal financial decisions based on current and projected economic factors including career and postsecondary education planning. Topics include employment earnings, taxation, credit, housing, transportation, investments, and insurance.

Prerequisites: Algebra I

Algebraic Reasoning

Course #: 05367 ***Credits: 1***

PEIMS #: 03102540 ***Grades: 10-12***

This course will build upon the knowledge and skills for math from Kindergarten through Algebra 1 in order to develop a deeper understanding of algebraic reasoning. Topics include functions, relationships, patterns, numeric reasoning and data to increase workforce and college readiness.

Prerequisites: Algebra I

Independent Study In Math I (INSTUMTH)

Course #: 05355 ***Credits: 1***

PEIMS #: 03102500 ***Grades: 9-12***

Independent Study In Math II (INSTMTH2)

Course #: 05356 ***Credits: 1***

PEIMS #: 03102501 ***Grades: 11-12***

Prerequisites: Geometry and Algebra II

*Advanced CTE course

Core Academics - Physical Education

Foundations of Personal Fitness (PEFOUND)	
Course #: 04900	***Credits: ½-1***
PEIMS #: PES00052	***Grades: 9-12***
This course will use a textbook in conjunction with fitness-related activities. The basic purpose of this course is to encourage students to strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness.	
Prerequisites: None	

Individual or Team Sports (PEITS)	
Course #: 04903	***Credits: ½-1***
PEIMS #: PES00055	***Grades: 9-12***
This class is designed for the development of health-related fitness through the selection of individual or team sport activities that can be pursued for a lifetime.	
Prerequisites: None	

Aerobic Activities (PEAA)	
Course #: 04902	***Credits: ½-1***
PEIMS #: PES00054	***Grades: 9-12***
Students in aerobic activities and weight training are exposed to a variety of activities that promote health-related fitness. A major expectation is for the student to design a personal fitness program that uses aerobic activities and weight training as a foundation.	
Prerequisites: None	

Adventure/Outdoor Education (PEAOA)	
Course #: 04901	***Credits: ½-1***
PEIMS: PES00053	***Grades: 9-12***
Adventure/Outdoor Education is expected to develop competency in outdoor education activities that provide opportunities for enjoyment and challenge which enhances a physically active lifestyle. These activities promote a respect for the environment and can be enjoyed for a lifetime.	
Prerequisites: None	

PE Substitution - Cheerleading (SUBCHLDG) (first time taken)	
Course #: 04972	***Credits: 1***
PEIMS: PES00013	***Grades: 9-12***
Cheerleading (CHEERLEADI) (each year thereafter)	
Course #: 04973	***local credit only***
PEIMS: 84200013	***Grades: 10-12***
Prerequisites: None	

PE Substitution - Pep Squad (SUBCHLDG) (first time taken)	
Course #: 04942	***Credits: 1***
PEIMS: PES00013	***Grades: 9-12***
Pep Squad (PEP SQUAD) (each year thereafter)	
Course #: 04943	***local credit only***
PEIMS: 84200015	***Grades: 10-12***
Prerequisites: None	

PE Substitution - Drill Team (SUBDT) (first time taken)	
Course #: 04974	***Credits: 1***
PEIMS: PES00014	***Grades: 9-12***
Drill Team (DRILL TEAM) (each year thereafter)	
Course #: 04975	***local credit only***
PEIMS: 84200014	***Grades: 10-12***
Prerequisites: None	

Dance I (DANCE 1)	
Course #: 02066	***Credits: 1***
PEIMS #: 03830100	***Grades: 9-12***
Dance II (DANCE 2)	
Course #: 02366	***Credits: 1***
PEIMS #: 03830200	***Grades: 10-12***
Dance III (DANCE 3)	
Course #: 02266	***Credits: 1***
PEIMS #: 03830300	***Grades: 11-12***
Dance IV (DANCE 4)	
Course #: 02166	***Credits: 1***
PEIMS #: 03830400	***Grades: 12***
Dance may earn either Fine Arts or PE credit, but not both simultaneously. Fine Arts credit is available only to courses taught by an SBEC certified Dance instructor. Dance students develop perceptual thinking, movement principles and technical skills as they explore choreographic and performance qualities. Students develop self-discipline and healthy bodies that move expressively, efficiently, and safely while recognizing dance as a vehicle for understanding historical and cultural relevance, increasing an awareness of heritage and traditions of their own and others, and enabling them to participate in a diverse society.	
Prerequisites: Director approval	

PE Substitution - Athletics (SUBATHL1)

Sport	*Year 1 PEIMS #: PES00000*	*Years 2 and 4 PEIMS #: PES00001*	*Year 3 PEIMS #: PES00002*
Baseball	04920	04921	04922
Basketball	04924	04925	04926
Cross Country	04980	04981	04982
Football	04928	04929	04930
Golf	04932	04933	04934
Gymnastics	04936	04937	04938
Powerlifting	04944	04945	04946
Soccer	04948	04949	04950
Softball	04952	04953	04954
Swimming	04956	04957	04958
Tennis	04960	04961	04962
Track	04964	04965	04966
Volleyball	04968	04969	04970
Prerequisites: Tryout and teacher approval			

Please see page 5 for information about additional opportunities to earn physical education credit for participation in –

- community or commercial activity programs
- Athletics Trainer program
- Flag Corps/Guard
- Junior ROTC
- Marching Band
- Musical Theatre
- Show Choir vocal ensemble
- Revolution Strings instrumental ensemble

Core Academics - Science

Biology (BIO)

Course #: 06121 — ***Credits: 1***

PEIMS #: 03010200 — ***Grades: 9-10***

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 the following: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; ecosystems; and plants and the environment. Preparation for End of Course testing will be included.

Prerequisites: None

PreAP Biology (BIO PREAP)

Course #: 06201 — ***Credits: 1***

PEIMS #: 03010200 — ***Grades: 9-10***

In PreAP Biology, students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical-thinking and scientific problem-solving. Students will design and conduct biological scientific experiments. Students in biology study a variety of topics that include the following: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; ecosystems; and plants and the environment. Students will be expected to perform on an advanced level in preparation for further upper-level science courses. Preparation for End of Course testing will be included.

Prerequisites: None

AP Biology (AP-BIO)

Course #: 06373 — ***Credits: 1***

PEIMS #: A3010200 — ***Grades: 11-12 (Grade 10 with teacher recommendation)***

The Advanced Placement Biology course is designed to be the equivalent of a college introductory biology course. The course will include those topics regularly covered in a college biology course, and differs from standard high school biology with respect to the kind of textbook used, the range and depth of topics covered, the kind of laboratory work done by students, and the time and effort required of students. The course aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. In essence, students will learn to think like scientists, including designing and conducting experiments, statistical analysis of data, drawing conclusions based on data analysis, and error analysis. Content requirements for AP Biology are prescribed in the College Board Publication Advanced Placement Course Description: Biology, published by the College Board. Students are expected to take the AP exam.

Prerequisites: Biology, Chemistry and Physics recommended (may be taken concurrently).

Integrated Physics and Chemistry (IPC)

Course #: 06327 — ***Credits: 1***

PEIMS #: 03060201 — ***Grade: 9-10***

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

Prerequisites: Biology recommended

Chemistry (CHEM)

Course #: 06263 — ***Credits: 1***

PEIMS #: 03040000 — ***Grades: 10-12***

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 the following: characteristics of matter; energy transformations during physical and chemical changes; atomic structure; periodic table of elements; behavior of gases; bonding; nuclear fusion and nuclear fission; oxidation-reduction reactions; chemical equations; solutes; properties of solutions; acids and bases; molar relationships; and chemical reactions. Students will investigate how chemistry is an integral part of our daily lives.

Prerequisites: Algebra I; Biology recommended. Completion or concurrent enrollment in a second year of math recommended. (If IPC is taken it must be completed before enrolling in chemistry or physics.)

PreAP Chemistry (CHEM PREAP)

Course #: 06203 — ***Credits: 1***

PEIMS #: 03040000 — ***Grades: 10-12 (Grade 9 with teacher recommendation)***

In PreAP 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 the following: characteristics of matter; energy transformations during physical and chemical changes; atomic structure; periodic table of elements; behavior of gases; bonding; nuclear fusion and nuclear fission; oxidation-reduction reactions; chemical equations; solutes; properties of solutions; acids and bases; molar relationships; and chemical reactions. Students will investigate how chemistry is an integral part of our daily lives. Students will be expected to perform on an advanced level in preparation for further upper-level science courses.

Prerequisites: Algebra I; Biology recommended. Completion or concurrent enrollment in a second year of math recommended (If IPC is taken it must be completed before enrolling in chemistry or physics.)

AP Chemistry (AP-CHEM)

Course #: 06473 ***Credits: 1***

PEIMS #: A3040000 ***Grades: 11-12 (10th grade with teacher recommendation)***

The Advanced Placement Chemistry course is designed to be the equivalent of the General Chemistry course usually taken during the first college year. For some students, this course enables them to undertake, as college freshmen, second-year work in the chemistry sequence, or to register in courses in other fields where general chemistry is a prerequisite. For other students, the AP Chemistry course fulfills the laboratory science requirement and frees time for other courses. This course differs from high school Chemistry I with respect to the kind of textbook used, the topics covered, the emphasis on chemical calculation and the mathematical formulation of principles, and the kind of laboratory work done by students. Quantitative differences appear in the number of topics treated, the time spent on the course by students, and the nature and the variety of experiments done in the laboratory. Content requirements for AP Chemistry are prescribed in the College Board Publication Advanced Placement Course Description: Chemistry, published by the College Board. Students are expected to take the AP exam.

Prerequisites: Algebra II and Biology; Chemistry or Physics recommended (may be taken concurrently).

Physics (PHYSICS)

Course #: 06371 ***Credits: 1***

PEIMS #: 03050000 ***Grades: 11-12***

In Physics, 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 the following: laws of motion, changes within physical systems and conservation of energy and momentum; force; thermodynamics; characteristics and behavior of waves; and quantum physics. This course provides students with a conceptual framework, factual knowledge, analytical, and scientific skills.

Prerequisites: Algebra I and Biology recommended. (IPC is not a prerequisite. If IPC is taken it must be completed before enrolling in chemistry or physics.)

AP Physics 1: Algebra-Based (APPHYS1)

Course #: 06427 ***Credits: 1***

PEIMS #: A3050003 ***Grade: 11-12***

AP Physics 1: Algebra-Based is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; and mechanical waves and sound. It will also introduce electric circuits. The focus is on a series of learning objectives that clarify the knowledge and skills students should demonstrate to qualify for college credit and placement. Please check the college you plan to attend for the acceptance of this course in your major field of study. Content requirements for Advanced Placement (AP) Physics are prescribed by the College Board Publication Advanced Placement Course Description: Physics 1, published by the College Board. Students are expected to take the AP Exam.

Prerequisites: Recommended Physics, Algebra 1, Algebra II, and Geometry

AP Physics 2: Algebra-Based (APPHYS2)

Course #: 06429 ***Credits: 1***

PEIMS #: A3050004 ***Grade: 11-12***

AP Physics 2: Algebra-Based is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics. The focus is on a series of learning objectives that clarify the knowledge and skills students should demonstrate to qualify for college credit and placement. Please check the college you plan to attend for the acceptance of this course in your major field of study. Content requirements for Advanced Placement (AP) Physics are prescribed by the College Board Publication Advanced Placement Course Description: Physics 2, published by the College Board. Students are expected to take the AP Exam.

Prerequisites: Algebra II, completion of Biology, Chemistry, AP Physics I, and concurrent enrollment in Pre-Calculus or Calculus is strongly recommended.

AP Physics C: Mechanics (APPHYSCM)

Course #: 05960 ***Credits: 1***

PEIMS #: A3050006 ***Grade: 12***

This course provides the student who is planning to specialize in physical science or engineering with the opportunity to meet his/her requirement for Introductory Physics. Use of calculus in problem-solving and in derivations increases as the course progresses. Please check the college you plan to attend for the acceptance of this course in your major field of study. Content requirements for AP Physics are prescribed in the College Board Publication Advanced Placement Course Description: Physics, published by the College Board. Students are expected to take the AP exam.

Prerequisites: Geometry, Algebra II, Biology, Chemistry, Physics or PreAP Physics, and Pre-Calculus, concurrent enrollment in Calculus strongly recommended.

Anatomy and Physiology* (ANATPHYS)

Course #: 08847 ***Credits: 1***

PEIMS #: 13020600 ***Grades: 11-12***

This course introduces a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. Students conduct laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem-solving. Note: This course can count as the fourth year of science for graduation requirements for students entering 9th grade in 2007-2008.

Prerequisites: Biology and a second science credit required; a course from the Health Science career cluster recommended

*Advanced CTE course

Forensic Science* (FORENSCI)

Course #: 06431 ***Credits: 1***

PEIMS #: 13429500 ***Grades: 11-12***

Forensic Science is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science

Prerequisite: Biology and Chemistry. Recommended prerequisite or corequisite: any Law, Public Safety, Corrections and Security career cluster course

Environmental Systems (ENVIRSYS)

Course #: 06233 ***Credits: 1***

PEIMS #: 03020000 ***Grades: 11-12***

In Environmental Systems, 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 the following: biotic and abiotic factors in habitats; ecosystems and biomes; interrelationships among resources and an environmental system; sources and flow of energy through an environmental system; relationships between carrying capacity and changes in populations and ecosystems; and changes in environments.

Prerequisites: Biology and a physical science recommended

AP Environmental Science (AP-ENVIR)

Course #: 06309 ***Credits: 1***

PEIMS #: A3020000 ***Grades: 11-12***

In AP Environmental Science students will study scientific principles that help them understand the relationships of the natural world. Students will identify environmental problems both natural and man-made and examine solutions for resolving these problems. Topics that will be covered include the following: flow of energy, nutrient cycles, earth dynamics, atmospheric pollution, biomes, population studies, renewable/nonrenewable resources, water and soil quality, evaluation, and human impact on environmental issues. Students are expected to take the AP exam.

Prerequisites: Algebra II and Biology; Chemistry and Physics recommended (may be taken concurrently).

Astronomy (ASTRMY)

Course #: 06379 ***Credits: 1***

PEIMS #: 03060100 ***Grades: 11-12***

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

Prerequisites: Recommended one unit of high school science

Core Academics - Social Studies

World Geography Studies (W GEO)

Course #: 07261 ***Credits: 1***

PEIMS #: 03320100 ***Grades: 9-12***

Students examine people, places, and environments at local, regional, national, and international scales from the spatial perspective of geography. Students describe the influence of geography on events of the past and present. A significant portion of the course centers on the physical environment; cultural patterns; the distribution and movement of world population; relationships among people, places, and environments; and the concept of region. This course cannot be entered at mid-term.

Prerequisites: None

PreAP World Geography Studies (W GEO PREAP)

Course #: 07210 ***Credits: 1***

PEIMS #: 03320100 ***Grades: 9-12***

Students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present. The course will focus on the physical processes that shape patterns in the physical environment, and the social processes that shape cultural patterns of regions. Students compare how components of culture shape the characteristics of regions and analyze the impact of technology and human modifications on the physical environment. Students use problem-solving and decision-making skills to ask and answer geographic questions. This course is the introductory course to the high school social studies AP Program. The course cannot be entered at mid-term.

Prerequisites: None

World History Studies (W HIST)

Course #: 07241 ***Credits: 1***

PEIMS #: 03340400 ***Grades: 10-12***

The major emphasis in this course is on the study of significant people, events, and issues from the earliest times to the present. Students analyze important events and issues in western civilization as well as in civilizations in other parts of the world. This course cannot be entered at mid-term.

Prerequisites: World Geography recommended

AP World History (APWHIST)

Course #: 07203 ***Credits: 1***

PEIMS #: A3370100 ***Grades: 10-12***

The purpose of AP World History is to develop a greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. Focused primarily on the past ten-thousand years of the global experience, the course builds on an understanding of cultural, institutional, and technological precedents. Specific themes provide further organization to the course, along with the consistent attention to contacts among societies that form the core of world history as a field of study. Preparation for the College Board AP Exam is emphasized. This course may be substituted for World History Studies. This course cannot be entered at mid-term. Students are expected to take the AP exam.

Prerequisites: World Geography or Pre-AP World Geography recommended

AP Human Geography (APHUMGEO)

Course #: 07301 ***Credits: 1***

PEIMS #: A3360100 ***Grades: 10-12***

This course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students employ spatial concepts and landscape analysis to analyze human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. Preparation for the College Board AP Exam is emphasized. This course cannot be entered at mid-term. This course may be used as a substitute for World Geography. Students are expected to take the AP exam.

Prerequisites: Pre-AP World Geography recommended

United States History Studies Since 1877 (US HIST)

Course #: 07111 ***Credits: 1***

PEIMS #: 03340100 ***Grades: 10-12***

Students study the history of the United States since Reconstruction to the present. Historical content focuses on the political, economic, and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies of the Cold War and post-Cold War eras, and reform movements including civil rights. This course cannot be entered at mid-term. Preparation for the College Board AP Exam is emphasized. Preparation for End of Course testing will be included.

Prerequisites: World History, World Geography recommended

AP United States History (APUSHIST)

Course #: 07401 ***Credits: 1***

PEIMS #: A3340100 ***Grades: 10-12***

Advanced Placement United States History is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in American history. This course, designed as a college-level course, prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. In this course students will learn to assess historical materials, their relevance to a given interpretive problem, their reliability, and their importance—and to weigh the evidence and interpretations presented in historical scholarship. Preparation for the College Board AP Exam is emphasized. This course may be substituted for U.S. History Since Reconstruction. This course cannot be entered at mid-term. Preparation for End of Course testing will be included and students are expected to take the AP exam.

Prerequisites: AP World History and Pre-AP World Geography recommended

United States Government (GOVT)

Course #: 07331 ***Credits: ½***

PEIMS #: 03330100 ***Grades: 11-12***

The focus of this course is on the principles and beliefs upon which the United States was founded 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.

Prerequisites: United States History recommended

AP United States Government and Politics (APUSGOVT)

Course #: 07403 ***Credits: ½***

PEIMS #: A3330100 ***Grade: 12***

Advanced Placement United States Government and Politics is designed for qualified students who wish to complete studies in high school equivalent to a one-semester college introductory course. It will give students an analytical perspective on government and politics. The student will become familiar with the Constitutional underpinnings of United States Government; political beliefs and behaviors; political parties and interest groups; the institutions and policy processes of national government; civil rights and civil liberties. Students will acquire the skills of analyzing data and writing and presenting written and oral arguments which will prepare them for the demands of beginning and intermediate college courses. Students are expected to take the AP exam.

Prerequisites: Pre-AP World Geography, AP World History, AP US History recommended

Economics with Emphasis on the Free Enterprise System and its Benefits (ECO-FE)

Course #: 07361 ***Credits: ½***

PEIMS #: 03310300 ***Grades:11-12***

The focus in this course is on the basic principles concerning production, consumption, and distribution of goods and services in the United States and a comparison with those in other countries around the world. Students examine the rights and responsibilities of consumers and businesses. Students analyze the interaction of supply, demand, and price, and study the role of financial institutions in a free enterprise system.

Prerequisites: None

AP Macroeconomics (APMACECO)

Course #: 07304 ***Credits: ½***

PEIMS #: A3310200 ***Grades: 11-12***

This course prepares students to take the College Board Macroeconomics AP Exam. This course is designed to give students a thorough knowledge and understanding of economic principles that apply to the economy as a whole. The course stresses the study of national income and price determination, economic performance measures, economic growth, and international economics. Students are expected to take the AP examination.

Prerequisites: Pre-AP World Geography, AP World History, AP US History recommended

AP United States Government and Politics (.5)(APUSGOVT) and AP Macroeconomics (.5) (APMACECO)

Course #:07425 ***Credits: 1***

PEIMS #: 84400101 ***Grades: 12***

Please see AP United States Government and Politics and AP Macroeconomics course descriptions. This course is taught in a blended format covering for AP Government and AP Macroeconomics throughout the entire year in preparation for the AP exams in Government and Economics. Note: Course credit for Government and/or Economics will not be issued until the end of the spring semester. Special consideration should be given if a student is considering a move outside of the district to instead take our course offerings that are not blended. Counselor will advise.

Prerequisites: Pre-AP World Geography, AP World History, AP US History recommended

AP European History (APEUHIST)

Course #: 07405 ***Credits: 1***

PEIMS #: A3340200 ***Grades: 11-12***

AP European History is a college-level course covering the political, economic, religious, and cultural history of Europe since the Renaissance. Preparation for the College Board AP Exam is emphasized. This course cannot be entered at mid-term. Students are expected to take the AP exam.

Prerequisites: AP World History, Pre-AP World Geography, AP United States History recommended

Sociology (SOC)

Course #: 07391 ***Credits: ½***

PEIMS #: 03370100 ***Grades: 11-12***

Students study dynamics and models of individual and group relationships; topics such as the history and systems of sociology, cultural and social norms, social institutions, and mass communication.

Prerequisites: None

Psychology (PSYCH)

Course #: 07281 ***Credits: ½***

PEIMS #: 03350100 ***Grades: 11-12***

Students consider the development of the individual and the personality. The study of psychology is based on an historical framework and relies on effective collection and analysis of data. Students study topics such as theories of human development, personality, motivation, and learning.

Prerequisites: None

Personal Financial Literacy (PFL)

Course #: 07265 ***Credits: ½***

PEIMS #: 03380082 ***Grades: 11-12***

Personal Financial Literacy will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility.

Prerequisites: None

PreAP Psychology (.5) (PSYCHPREAP) and AP Psychology (.5) (APPSYCH)

Course #: 07284/07283 ***Credits:1***

PEIMS #: 03350100/A3350100 ***Grades: 11-12***

The PreAP Psychology and AP Psychology courses introduce students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological bases of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. PreAP Psychology is offered 1st semester and must be completed to enter AP Psychology which is offered 2nd semester. **(Course only available at CHS and receives ½ credit for PreAP Psychology and ½ for AP Psychology)**

Prerequisites: None

Social Studies Advanced Studies – 20th Century Americans (SSADV1-20thCENT)

Course #:07385 ***Credits: 1***

PEIMS #:03380001 ***Grades: 10-12***

This two-semester course will examine the lives of Americans who have helped to shape the culture of the U.S., this nation's history and the lives of students. The course is intended to aid students who will enroll in U.S. History or have an interest in the topic. The course will include the names and events listed in English 2 and U.S. History TEKS that parallel the course curriculum. SAT/ACT vocabulary words will be embedded into the lessons. **This course is offered at AHS only.**

Prerequisites: None

Social Studies Advanced Studies – Holocaust and Genocide Studies (SSADV1-HOLGEN)

Course #:07387 ***Credits: 1***

PEIMS #: 03380001 ***Grades: 10-12***

The Holocaust and Genocide Studies course is designed to allow students an in-depth exploration of topics that typically generate high interest. Students will learn lessons on human behavior, citizen responsibility and accountability, the roots of prejudice, and the dangers of apathy and abuse of power. **This course is offered at CHS only.**

Prerequisites: None

Social Studies Advanced Studies – Women's History (SPTSS3)

Course #:07595 ***Credits: ½***

PEIMS #: 03380032 ***Grades: 10-12***

This course will help you understand the stories of women in several periods of American history. Students will build understanding of women's roles in several periods in American history, including political and economic history (the major events of the day) and social history (how people lived their lives on a day-to-day basis). **This course is offered at AHS only.**

Prerequisites: None

Social Studies Advanced Studies – African American History Since Reconstruction (SPTSS2)

Course #:07495 ***Credits: ½***

PEIMS #: 03380022 ***Grades: 10-12***

The purpose of this course is to examine the African American experience in the United States from 1863 to the present. Prominent themes include the end of the Civil War and the beginning of Reconstruction; African Americans' urbanization experiences; the development of the modern civil rights movement and its aftermath' and the thought and leadership of Booker T. Washington, Ida B. Wells-Barnett, W.E.B. Du Bois, Marcus Garvey, Martin Luther King, Jr., and Malcom X. **This course is offered at AHS only.**

Prerequisites: None

Specialty Classes

Specialty Classes

AP Seminar (APSMNR)

Course #: 01407 — ***Credits: 1***

PEIMS #: N1130026 — ***Grades: 11***

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, literary, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

Prerequisites: Successful completion of prior PreAP or AP coursework. Concurrent enrollment in AP Language and Composition recommended.

AP Research (APRES)

Course #: 01409 — ***Credits: 1***

PEIMS #: N1100014 — ***Grades: 12***

AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000-5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

Prerequisites: AP Seminar

Strategic Learning for High School Mathematics (STLNHSM)

Course #: 05409 — ***Credits: 1***

PEIMS #: N1100300 — ***Grades: 9-12***

This course is intended to create strategic mathematical learners from underprepared mathematics students. The basic understandings will stimulate students to think about their approach to mathematical learning. These basic understandings will include identifying errors in the teaching and learning process, input errors, physiological concerns, and key cognitive skills. The essential knowledge and skills will foster a deeper understanding of the task of learning mathematical concepts. Use of personal data and statistical analysis will establish relevance and aid in creation of individualized learning plans (ILPs).

Prerequisites: None

Peer Assistance and Leadership 1 (PAAL1)

Course #: 09364 — ***Credits: 1***

PEIMS #: N1290005 — ***Grades: 11-12***

Peer Assistance and Leadership 2 (PAAL2)

Course #: 09464 — ***Credits: 1***

PEIMS #: N1290006 — ***Grades: 11-12***

The Peer Assistance and Leadership program is a peer helping program in which selected high school students in grades 11 and 12 are trained to work as peer helpers with other students either on their own campus or from feeder middle schools or elementary schools. Participants will be trained in a variety of helping skills which will enable them to assist other students in having a more positive and productive school experience. PALS also perform service projects at various local non-profit agencies. The program is approved by the Texas Education Agency as an elective course for credit (1 unit) toward graduation. Students must submit an application and be interviewed before being selected for this course. This course requires a one year commitment and cannot be entered at mid-term. This course also requires a minimum of 3 Saturdays for volunteer work. AHS and CHS PALS partners with Big Brothers Big Sisters in working with elementary students.

Prerequisites: Application and interview

Advancement Via Individual Determination 1 (AVID1)

Course #: 09721 — ***Credits: 1***

PEIMS #: N1290001 — ***Grade: 9***

Advancement Via Individual Determination 2 (AVID2)

Course #: 09722 — ***Credits: 1***

PEIMS #: N1290002 — ***Grade: 10***

Advancement Via Individual Determination 3 (AVID3)

Course #: 09723 — ***Credits: 1***

PEIMS #: N1290030 — ***Grade: 11***

Advancement Via Individual Determination 4 (AVID4)

Course #: 09724 — ***Credits: 1***

PEIMS #: N1290033 — ***Grade: 12***

AVID is an elective course that prepares students in the academic middle for four-year college eligibility. For one period a day, they learn organizational and study skills, work on critical thinking and asking probing questions, get academic help from peers and tutors, and participate in enrichment and motivational activities that make college seem attainable.

Prerequisites: None

Countdown to College (SAT PREP)

Course #: 09486 — ***Local Credit***

PEIMS #: 85000104 — ***Grades: 10-12***

This course is designed for serious college-bound students who will take the PSAT in their junior year or SAT/ACT in their senior year. The purpose of the course is to increase the test scores of college-bound students and increase the opportunities for participants to receive academic college scholarships.

Prerequisites: Recommended for college bound students

Career Preparation I (CAREERP1)

Course #: 08953 ***Credits: 2***

PEIMS #: 12701300 ***Grades: 11-12***

This course provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and prepares students with a variety of skills for a fast-changing workplace. Career Preparation includes employability skills, job interview techniques, communication skills, financial and budget activities, human relations, as well as job-specific skills related to a student's training station.

Prerequisites: None

Career Preparation I/Extended Career Prep I (EXCAREE1)

Course #: 08958 ***Credits: 3***

PEIMS #: 12701305 ***Grades: 11-12***

This course provides opportunities for students to participate in a learning experience that combines classroom instruction with paid business and industry employment experiences and prepares students with a variety of skills for a fast-changing workplace. Career Preparation includes employability skills, job interview techniques, communication skills, financial and budget activities, human relations, as well as job-specific skills related to a student's training station. Extended Career Preparation provides opportunities for students to participate in a work-bases learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

Prerequisites: None

Career Preparation II (CAREERP2)

Course #: 08954 ***Credits: 2***

PEIMS #: 12701400 ***Grades: 12***

This course is a continuation of the instruction with paid business and industry employment experiences of Career Preparation I.

Prerequisites: Career Preparation I or Extended Career Preparation I

Career Preparation II/Extended Career Prep II (EXCAREE2)

Course #:08959 ***Credits: 3***

PEIMS #: 12701405 ***Grades: 12***

This course is a continuation of the instruction with paid business and industry employment experiences of Career Preparation I. Extended Career Preparation provides opportunities for students to participate in a work-bases learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

Prerequisites: Career Preparation I or Extended Career Preparation I

Parenting Education I (PAED1)

Course #: 08898 ***Credits: 1***

PEIMS #: N1302536 ***Grades: 9-12***

This course is designed to address the special needs and interests of students who are parents or expectant parents. Special emphasis is placed on prenatal care and development, postnatal care, infant care, child development, and parenting skills. Other units of study address personal development, responsible parenthood and adult roles, family problems and crises, conflict resolution, family health issues, nutrition, safety, management, and employability skills. Students develop the knowledge and skills to the multiple roles of student, parent, family member, and provider. ***Open to male and female students who are parents and to students who are pregnant.*** **This course expires in 2023-2024.**

Prerequisites: None

Parenting Education II (PAED2)

Course #: 08899 ***Credits: 1***

PEIMS #: N1302537 ***Grades: 10-12***

Parenting Education II is designed to build on education and experiences from Parenting Education I. This course provides more in-depth knowledge of parenting and child development including implications of expectations of children, child abuse, disabilities, and issues impacting young families such as employment, postsecondary education, transportation, child care, housing, and personal responsibility. Students develop the knowledge and skills to manage the multiple roles of being a student, parent, family member, and provider. ***Open to male and female students who are parents and to students who are pregnant. This course expires in 2023-2024.***

Recommended Prerequisites: Parenting Education I.

Methodology of Academic and Personal Success (MAPS1)

Course #: 09725 ***Credits: 1***

PEIMS #: N1130021 ***Grades: 9-10***

The course focuses on the skills and strategies necessary for students to make a successful transition into high school and an academic career. Students will explore the options available in high school, higher education, and the professional world in order to establish both immediate and long-range personal goals. After identifying their individual learning styles and abilities, students will build on these abilities by developing critical time-management, organization and study skills. The course focuses on self-understanding, decision-making, resiliency, attitude, character education, and leadership to help students maximize personal achievement. Students will develop the specific strategies necessary to achieve their personal and professional goals. The course emphasizes proactive problem-solving, self-determination, and independent thinking and learning skills. In addition, students will explore and experience collaboration as a tool for creative problem solving. As part of goal setting and leadership activities, students may complete an outside community service learning experience in addition to class assignments. **This course expires in 2021-2022.**

Prerequisites: None

General Employability Skills (GEMPLS)

Course #: 09726 ***Credits: 1***

PEIMS #: N1270153 ***Grades: 9-12***

This course provides students with knowledge of the prerequisite skills for general employment as well as the means of obtaining those skills. Employability skills include fundamentals of Maintenance of personal appearance and grooming. The course also includes the knowledge, skills, and attitudes that allow employees to get along with their co-workers, make important work-related decisions, and become strong members of the work team. Discovering job possibilities that link skills, abilities, interests, values, needs, and work environment preferences is a part of the process of obtaining employability skills and abilities and is experiential learning that takes place over time. **Course expiration TBD**.

Prerequisites: None

College Transition (CLGTRN)

Course #: 09727 ***Credits: 1***

PEIMS #: N1290050 ***Grades: 9-12***

College Transition is designed to equip students with the knowledge, skills, and abilities necessary to be active and successful learners, both in high school and in college. Students examine numerous research-based learning strategies that are proven to lead to academic success such as goal setting, effective time management, handling stress, note taking, active reading, test-taking strategies, and conducting research. In the College Transition course, students will research financial scholarships and grant opportunities, complete applications, and explore technical schools, colleges, and universities. **This course expires in 2021-2022**.

Prerequisites: None

Principles of Cosmetology Design and Color Theory (PRICOSMO)

Course #: 08710 ***Credits: 1***

PEIMS #: 13025050 ***Grades: 9-10***

In this course, students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Students will attain academic skills and knowledge as well as technical knowledge and skills related to cosmetology design and color theory. Students will develop knowledge and skills regarding various cosmetology design elements such as form, lines, texture, structure and illusion or depth as they relate to the art of cosmetology. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the TDLR requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included. **This course is offered on the Abilene High campus but is open to all AISD students.**

Prerequisites: Principles of Human Services recommended

Navigating Life with Hearing Loss (NAVLOSS)

Course #: 03601 ***Credits: 1***

PEIMS #: N1290330 ***Grade: 9-12***

This course provides the necessary information, resources, and opportunities that will empower students who are deaf or hard of hearing to effectively apply information and skills learned in educational, home, and community settings in order to facilitate achievement in secondary and postsecondary environments. The course is open to hearing students who are taking ASL and are interested in working in fields related to deafness.

Prerequisites: None

Introduction to Cosmetology (INTCOSMO)

Course #: 08860 ***Credits: 1***

PEIMS #: 13025100 ***Grade: 10***

In this course students explore career in the cosmetology industry. To prepare for success, students must have academic and technical knowledge and skills relative to the industry. Students may earn hours toward state licensing requirements. **This course is offered on the Abilene High campus but is open to all AISD students.**

Prerequisites: None

Cosmetology I (COSLAB1)

Course #: 08885 ***Credits: 3***

PEIMS #: 13025210 ***Grades: 10-11***

Students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the Texas Department of Licensing and Regulation (TDLR) requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included. **This course is offered on the Abilene High campus but is open to all AISD students.**

Prerequisites: Introduction to Cosmetology recommended

Cosmetology II* (COSLAB2)

Course #: 08887 ***Credits: 3***

PEIMS #:13025310 ***Grades: 11-12***

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

Prerequisites: Cosmetology I