

2025 -  
2026

*AZLE HIGH  
SCHOOL*

*COURSE  
CATALOG &  
PLANNING  
GUIDE*

**Achieving Higher Standards**

## Azle Independent School District

### MOTTO:

"It Makes a Difference to This One"

### VISION:

Every child will be future-ready: not by chance, but by design.

### MISSION:

Making a Difference to Every Child, Every Chance, Everyday

### GOALS:

- Our actions will be **student-centered**.
- We will seek and overcome educational barriers to optimize the success and **continuous achievement** of all students.
- **Personalized instruction** will provide all students with **rigorous academic preparedness**.
- Education plans will provide academic, social-emotional, and personal **growth for all students**.
- Meaningful **extra-curricular and co-curricular** opportunities will be available for all students.
- Community **engagement and partnerships** will positively enhance educational experiences.

### Azle High School Mission Statement

The mission of Azle High School is to ensure that all of our students have access and opportunity to engage in rigorous curriculum designed to support their advancement into education and to develop their academic, technical, and social skills to be productive members of a global society.

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**Azle High School Principal: Nate Driver**

#### Assistant Principals

Carly Maddox, Associate Principal  
Heather Wilson, A-B  
Dustin Bell, C-GL  
Logan Enis, Go-L  
Macy Pruitt, M-Ro  
Misty White, Ru-Z  
Kristen Lybrand, 504 & Testing Coordinator

#### School Counselors

Heather Huffaker, Lead Counselor, A-B  
Amanda Terrell, C-GL  
Sarah Raj, Go-L  
Kristi Dowell, M-Ro  
Nicole Murray, Ru-Z  
Tenille Roberts, C.O.O.L. Advisor

Azle Independent School District does not discriminate on the basis of race, color, national origin, sex, disability, handicap or age in its vocational programs, services or activities and provides equal access to the Boy Scouts and other designated youth groups as required by Title VI of the Civil Rights act of 1964, as amended; Title IX of the Educational Amendments of 1972; the Age Discrimination Act of 1975, as amended and section 504 of the Rehabilitation Act of 1973, as amended.

Inquiries concerning application of this policy may be referred to:  
Robin Tarpley, Director of Student Services - Coordinator of Title IX  
Krista Macfarlane, Director of Special Services - Section 504  
300 Roe Street, Azle, Texas 76020  
(817) 444-3235

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## A MESSAGE FROM THE PRINCIPAL

Dear Students and Parents:

This planning guide is provided to assist you in making course selections that will meet your personal needs for the future, as well as meet high school graduation requirements. Please take some time to review the contents of this handbook before selecting courses for the coming year as well as for long-range academic goals. The scheduling process is the shared responsibility of students, parents, teachers, and counselors. Students and parents should carefully decide upon a course of study early, thus ensuring the most appropriate high school education possible in accordance with both present and future goals. Parents are strongly encouraged to assist students in the selection process by discussing alternatives with their students and by helping them analyze their individual interests, needs, and goals.

All required courses will be offered annually. Elective courses listed in the booklet will be offered on the basis of student needs/requests. The school reserves the right to cancel any course if there is insufficient enrollment or if certified staff is not available. The student's alternate course selections will be substituted for canceled courses. Recommended grade placement and prerequisites for each of the courses (required and elective) may be found on the pages that follow.

Careful consideration should be given to the combination of courses selected and the demand on the student's time for studying, practicing, performing, and competing. It is of extreme importance that the registration process be taken seriously and that the student's selected courses are commensurate with their academic abilities and interests. Once courses and alternates are selected, the student's schedule will be set for the entire year. The master schedule is set and the hiring of teachers is determined by course registration. When students are permitted to randomly change schedules, classes become overcrowded. As a result, all students are affected. Schedule changes will be approved only for mistakes in a student's schedule.

**ALL changes to course requests should be made BEFORE May 2, 2025**

Although counselors will inform, monitor, and advise students and parents regarding graduation requirements and plans available, it is the responsibility of the students, with parent approval, to take the courses that are required for the graduation plan chosen. Questions regarding courses, graduation requirements or scheduling should be directed to the AHS Counseling Department.

Sincerely,

A handwritten signature in dark ink, appearing to read "ND", with a stylized flourish at the end.

Nate Driver, Principal

## GENERAL INFORMATION

Azle High School is a Texas Education Agency accredited high school that meets state requirements and also provides broad academic experiences for all students. Students and parents should thoroughly read the information provided in this guide in order to select the best possible courses according to students' needs, abilities, and career plans.

### **REGISTRATION**

Student registration will take place in the spring of each school year. Although students will receive specific instructions during that time from high school counselors, the responsibility for appropriate graduation and career choices rests with students and parents. The Counseling staff is available to assist in making decisions related to course selections. Students who do not participate in registration will have a schedule arranged for them by their counselor according to their academic needs and/or graduation plan.

There are many factors to consider in selecting courses that will meet individual needs for the high school experience. Remember to select courses to fit overall planning which projects beyond the high school years. Interest and ability should determine choices. Experience shows that those who plan an entire high school program early and frequently review the plan will be able to graduate without difficulty.

### **ENROLLMENT**

A student enrolling in the district for the first time must create an account on parent portal via [www.azleisd.net](http://www.azleisd.net) and complete the online enrollment. The student's legal guardian must upload satisfactory evidence of required immunization, proof of residence (electric bill, water bill, or lease agreement), copy of birth certificate, social security card, parent/guardian driver license. Once this documentation upload is complete, please contact the Azle High School Registrar. Students will need to bring a transcript and a withdrawal form from their previous school upon their start date to expedite the correct course placement.

### **ADVANCED ACADEMICS PROGRAM**

Texas believes a strong education is the foundation to our children's future. According to the Texas Education Agency, it is vital that our students have every opportunity to excel academically through rigorous and challenging coursework. Colleges recognize the role a rigorous high school curriculum plays in preparing students for college and workplace success. Accordingly, the National Association of College Admission Counseling's survey of college admissions officers showed the top factors in admission decisions were overall high school GPA, grades in college preparatory courses, strength of curriculum, and admission test scores.

Azle High School offers dual credit courses through Weatherford College and dual enrollment courses through The University of Texas OnRamps and Tarleton Today programs. Additionally, courses offered through the College Board's Advanced Placement (AP) program enable students to pursue college level coursework, while still in high school. All Honors, AP and dual enrollment courses require extra time on the part of student for class preparation, outside reading and/or labs, and completion of assignments. Students who take AP classes are expected to take the AP exam for that course.

#### **HONORS / ADVANCED PLACEMENT COURSES**

Honors and AP courses are college level classes that prepare students for the AP exams. Students will receive weighted GPA credit for passing semester grades in each Honors and AP course; however, a change from an Honors/AP course before the end of a semester will result in loss of weighted GPA credit. A semester grade of 70 or above earns credit for the course. The unweighted numerical grade will appear on student report cards and transcript. Students must earn a grade of 60 or better each grading period in all Honors and Advanced Placement courses to be eligible to participate in UIL Competitions. **Students who take AP classes are expected to take the AP exam for that course and pay the exam fee.** A successful score on an AP exam provides students with the opportunity to gain college credit at participating universities. It is the responsibility of the student to inquire if their college of choice accepts AP exam credit and to request that credit be given. Complete AP course descriptions and practice exam questions may be accessed at <https://apstudents.collegeboard.org/>. If a score of three or higher is obtained on an AP exam, the student may earn a Performance Acknowledgement. Schedule changes are usually not permitted during the school year due to classes becoming imbalanced.

<u>Honors Courses</u>	
Honors English I	Honors Geometry
Honors English II	Honors Algebra II
Honors World Geography	Honors Spanish II
Honors Biology	Honors Spanish III
Honors Chemistry	Honors French III
Honors Algebra I	

<u>AP Courses</u>	
AP English III	AP World History
AP English IV	AP Human Geography
AP Pre-calculus	AP Spanish IV
AP Calculus	AP Studio Drawing
AP Chemistry	AP Art History
AP Environmental Science	AP Music Theory

## DUAL CREDIT COURSES

Students may enroll in academic courses for college credit before they graduate from high school. Students are eligible for both high school and college credit upon successful completion of these courses. Dual Credit courses offered at AHS may be taught by an AHS teacher qualified to teach at the junior college level or an online college professor. To qualify to take a dual credit course, a student must:

- Have written permission from high school counselor or principal;
- Enroll and pay for classes at the college/university offering the course(s); and
- Meet the entrance requirement of the college/university including the required placement exams.

Students must earn a grade of an A, B, or C to earn high school credit for dual credit courses. Students who earn a grade of a D or an F will not receive high school credit for that course and may be ineligible to take another dual credit course. Students will receive weighted GPA credit for passing semester grades in each dual credit course; *however, dual credit grades earned the spring semester of the senior year are not included in the student's high school GPA.* All unweighted numerical grades for dual credit courses attempted for high school credit are recorded on the student's high school transcript. A semester grade of 70 or above earns credit for the course. Students must earn a semester grade of 60 or better in dual credit courses to be eligible to participate in UIL Competitions. Each three-hour dual credit course taken with a grade earned of A or B may be used towards earning a Performance Acknowledgement. **Students who take dual credit courses are expected to pay the associated fees for the course.**

## DUAL ENROLLMENT COURSES

The University of Texas at Austin's OnRamps dual enrollment program and the Tarleton Today dual enrollment program provide opportunities for high school students to earn college credit. Both programs are designed to accelerate student success by providing university-level work and developing skills necessary for college. Dual enrollment students are enrolled in university-level learning experiences taught by either a UT or Tarleton trained Azle High School teacher on our high school campus. Dual enrollment means that there is a separate college course grade earned and a separate high school course grade earned. Dual enrollment courses differ from dual credit courses because dual enrollment courses allow a student who is not being successful to accept/decline the college grade. Students will receive weighted GPA credit for passing semester high school grades in each OnRamps and Tarleton Today course; however, a change from a dual enrollment course before the end of a semester will result in loss of weighted GPA credit. The unweighted numerical grade will appear on student report cards and transcript. A semester grade of 70 or above earns credit for the high school course. Students must earn a grade of 60 or better each grading period in high school courses to be eligible to participate in UIL Competitions.

In addition, students who successfully complete the college course receive core college credits (three, four or six) from the university guaranteed to transfer to any public college or university in Texas. Students are exempt from TSI requirements for dual enrollment courses. Each three-hour dual enrollment course taken with a college grade earned of A or B may be used towards earning a Performance Acknowledgement. **Students who take dual enrollment courses are expected to pay the associated fees for the course. The fee for dual enrollment courses is \$50 per 3 or 4 credit hour course. If a student in on free/reduced lunch, dual enrollment courses are free for the student.**

<b><u>Weatherford College Dual Credit Courses</u></b>	<b><u>OnRamps Dual Enrollment Courses</u></b>
Accounting II – ACNT 1304 (at AHS – 3 hours)	English – ENGL 1301 & 1302 (6 hours)
	US History – HIST 1301 & 1302 (6 hours)
<b><u>Tarleton Today Dual Enrollment Courses</u></b>	Economics – ECON 1302 (3 hours)
Psychology – PSYC 2301 (3 hours)	Government – GOVT 2302 (3 hours)
Accounting I – ACCT 2301 (3 hours)	Algebra – Math 1314 (3 hours)
Advanced Animal Science – ANSC 1319 & 1119 (4 hours)	Statistics - Math 1342 (3 hours)
Instructional Practices - EDUC 1301 (3 hours)	Biology 1306 & 1106 (4 hours)
Practicum in Education – EDUC 2301 & 2330 (6 hours)	Chemistry I & II – CH 1311 & 1312 and CH 1111 & 1112 (8 hours)
Anatomy & Physiology – BIOL 2401 (4 hours)	Geoscience - GEOL 1311 (3 hours)
	Physics- PHY 1301 & 1101 (4 hours)
	Computer Science - CS 302 (3 hours)
	Arts & Entertainment Technologies -AET 304 (3 hours)
	Quantum Computing – PHY 1307 (3 hours)

## **SPECIAL EDUCATION SERVICES**

The Special Education program provides a comprehensive program for each student between the ages of three and twenty-two who has been identified as having a handicapping condition and an educational need. Courses are available for students who meet the eligibility requirements for special education services with enrollment based on an Admission, Review and Dismissal (ARD) Committee decision and instructional arrangement. More information may be obtained by contacting the campus Special Education office.

## **SECTION 504 & HOMEBOUND SERVICES**

**Section 504** of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) requires that Azle Independent School District not discriminate on the basis of handicap in any district program or activity. The district will identify, evaluate and provide an appropriate public education to students who are handicapped under Section 504, including homeless children. A handicapped person is one who has a mental or physical impairment which substantially limits one or more major life activities and has an educational need. For further information regarding Section 504, contact your student's counselor.

**Homebound instruction** Consistent with TEA's Student Attendance Accounting Handbook (SAAH), a student may be eligible for homebound services if the student is to be confined for a minimum of four weeks to a hospital or homebound setting for medical reasons specifically documented by a physician licensed to practice in the United States. Please contact the campus homebound coordinator for more information.

## **ESOL SERVICES**

All students who enroll in any school district will complete a home language survey. If this survey indicates that a language other than English is spoken in the home or is spoken by the student, the student may be referred to the ESOL (English for Speakers of Other Languages) teacher for evaluation. Tests will be administered and students who are found to be an English Language Learner (ELL) may enroll in ESOL classes. ESOL classes focus on intensive development of listening, speaking, reading, and writing skills in English. Two credits of ESOL may count as English I and II credits required for high school graduation.

## **COUNSELING SERVICES**

AHS school counselors believe:

- Every student can learn, and every student can succeed.
- Every student should have access to and opportunity for a high-quality education.
- Every student should graduate from high school prepared for postsecondary opportunities.
- Every student should have access to a comprehensive school counseling program.
- Effective school counseling is a collaborative process involving school counselors, students, families, teachers, administrators, other school staff and education stakeholders.
- School counselors are leaders in the school, district, state and nation.
- Comprehensive school counseling programs promote and enhance student academic, career and social/emotional outcomes.

## **COLLEGE OFFERS OPPORTUNITIES FOR LIFE – C.O.O.L. PROGRAM**

The mission of the College Offers Opportunities for Life (C.O.O.L.) College Advisor Program is to provide a full-time college advisor on the AHS campus to help students enroll in and successfully graduate from colleges, universities and other institutions of higher learning. The C.O.O.L. Advisor is located in room F0.

## **ACADEMIC INFORMATION**

### **ENDORSEMENT AREAS**

All 8th grade students are required to choose an Endorsement area based on their future career goals.

#### **Business and Industry Endorsement**

Students may earn this endorsement by completing a TEA-designated program of study related to Business and Industry. The Business and Industry programs of study may be completed in any of the following Career Clusters: Agriculture, Food and Natural Resources; Architecture and Construction; Manufacturing; Transportation, Distribution and Logistics; Business Management and Administration; Finance; Marketing; Hospitality and Tourism; Information Technology; Arts, Audio/Visual Technology and Communication. Additionally, students may also earn this endorsement by completing four English elective credits to include three levels in one of the following areas: Advanced Journalism Newspaper or Advanced Journalism Yearbook.

#### **Public Services Endorsement**

Students may earn this endorsement by completing a TEA-designated program of study related to Public Services. The Public Services programs of study may be completed in any of the following Career Clusters: Education and Training; Government and Public Administration; Health Science; Human Services; and Law, Public Safety, Corrections and Security.

#### **Arts and Humanities Endorsement**

Students may earn this endorsement by completing one of the following sequence of courses: A total of five social studies credits; four levels of the same language in a language other than English (LOTE); two levels of the same language in a LOTE and two levels in a different language in a LOTE; a coherent sequence of four credits from one or two of the following categories: Art, Music, Dance or Theatre.

#### **Science, Technology, Engineering and Math Endorsement**

Students may earn this endorsement by completing Algebra 2 and Physics. Additionally, students must complete either two additional math courses for which Algebra 2 is a prerequisite, or two additional science courses.

#### **Multidisciplinary Endorsement**

Students may earn this endorsement by completing four advanced courses that prepare the student to enter the workforce successfully or postsecondary education without remediation from within one endorsement area or among endorsement areas that are not in a coherent sequence. Additionally, students may also earn this endorsement by completing four courses in each of the four foundation subject areas to include English 4 and chemistry and/or physics. The final way to earn this endorsement is for a student to complete four Advanced Placement or dual credit courses from English, math, science, social studies, economics, fine arts or languages other than English.



## **ENDORSEMENTS AND DISTINGUISHED LEVEL OF ACHIEVEMENT (DLA)**

Students who graduate with an Endorsement and the Distinguished Level of Achievement are honored by completing a curriculum that provides a high level of skills and readiness for the labor market or college.

Students who graduate under the Distinguished Level of Achievement receive the following benefits:

- **College readiness** Many colleges and universities minimally require students to graduate with the Distinguished Level of Achievement for admission. In addition, students ranked in the top 10 percent of their graduating classes are eligible for automatic admission to most Texas public universities if they have completed the Distinguished Level of Achievement.
- **Test results** Research suggests that students who take additional English, math, social studies, and science courses make higher scores on the SAT® or ACT® college entrance exams. The DLA at Azle High School requires four credits in each of these core subject areas.

## **PERFORMANCE ACKNOWLEDGEMENTS**

Students may earn this distinction for outstanding performance in any ONE of the following areas:

- A score of a 3 or better on a College Board Advanced Placement (AP) exam. AP exams taken during the senior year will not have test scores returned in time to use for recognition at graduation.
- A score on the PSAT (taken the junior year) that qualifies the student as Commended Scholar
- A score of 1350 on the SAT or 29 on the ACT (excluding writing subscores)
- A grade point average (GPA) of 3.0 in 12 hours of college academic courses
- In bilingualism/biliteracy
- A business or industry certification

**The Foundation high school graduation program is available through an application process after the student's sophomore year or through an ARD or 504 meeting**

## **GRADE POINT AVERAGE**

A grade point average (GPA) is based on a 100-point scale and is computed using semester grades for all high school, dual credit and dual enrollment courses taken with the exception of local credits, unless excluded below. Due to the COVID-19 pandemic and school closure during the spring semester of the 2019–2020 school year, for students in the graduating classes of 2022, 2023, 2024, and 2025 the calculation of GPAs shall exclude grades earned during the spring semester of the 2019–2020 school year. Beginning with students in the graduating class of 2026, grades earned in high school credit courses taken during grades 7 & 8 are excluded in the calculation of GPAs. A semester grade of 70 or above earns credit for any course. Students will receive weighted GPA credit for passing semester grades in each Honors, AP, dual credit and dual enrollment course; however, a change from these courses before the end of a semester will result in loss of weighted GPA credit. The unweighted numerical grade will appear on student report cards and transcript. All grades transferred in from other accredited schools will be converted and computed to adhere to the AHS conversion scale. GPAs are final after the 3<sup>rd</sup> 9 weeks grading period of the student's senior year.

## **CLASS RANK POLICY**

Azle ISD uses a weighted grading scale for determining a student's overall class rank based on GPAs. In case of a tie in GPAs after calculation to the fourth decimal place, AHS will calculate a weighted numerical grade average using only eligible grades earned in English, mathematics, science, social studies, and languages other than English taken by each student involved in the tie. If the tie is not broken after applying this method, AHS will recognize all students involved in the tie as sharing the honor and title. Students recognized as "Top Ten" are the eligible senior students with the top ten weighted numerical grade averages. To be eligible for this local graduation honor, a student must: 1. Have been continuously enrolled in AHS the four semesters immediately preceding graduation; and 2. Be graduating after exactly eight semesters of enrollment in high school; and 3. Have completed the foundation program with the Distinguished Level of Achievement.

## GRADE AVERAGING

1. For all full-year courses, the final yearly average will be used to determine credit.
2. All courses are to be taken for the full year, unless they are designated as half-year courses.
3. If the district attendance committee fails to grant credit for one semester of a full-year required course, the student must meet with the counselor to reschedule the semester of the course failed. Courses may be repeated in summer school, if available, through credit recovery, or during the regular school year. Courses failed due to excessive absences cannot be used for grade averaging or class ranking.

## CREDIT INFORMATION

Grade classification is based on the number of semester credits previously earned. A student's classification is stated at the beginning of the school year and is generally not changed during the year. The minimum number of semester credits required for classification is as follows:

Grade Classification	Credit earned
9 <sup>th</sup>	0 - 6.5 credits
10 <sup>th</sup>	7 - 13.5
11 <sup>th</sup>	14 - 20.5
12 <sup>th</sup>	21 +

## GRADING GUIDELINES

Student grades reflect mastery of District instructional objectives, which relate to the essential knowledge and skills for grade-level subjects or courses. Report cards shall be issued every nine weeks. To assist parents in monitoring grades between grading periods, three- and six-week progress reports will be issued. The District has also implemented the Skyward Family Access program that allows parents/guardians to view their child's grades, attendance, and other demographic information.

In accordance with grading guidelines, teachers will enter grades weekly. Teachers must enter a minimum of 15 grades (12 daily and 3 major grades) for each nine weeks. Corrections may be completed on any assignments (daily or major) but cannot be done on semester exams. The grade on the assignment must be below a 70% in order to correct, and the replacement grade can be no higher than a 70. Corrections on a summative assessment must be done within three days of receiving their summative grade in the gradebook. Corrections on daily work must be completed before the summative assessment is administered.

## WAYS TO EARN CREDIT

### COURSE LOADS

All freshmen, sophomores and juniors are required to enroll in eight courses each year. Seniors may enroll in 7 courses provided they meet all of the following qualifying criteria:

1. Be on track to graduate with your designated class;
2. Earn a score of Meets, Approaches or Masters Grade Level on all state assessments taken;
3. In compliance with compulsory attendance and discipline policies
4. Earned a College, Career, Military Readiness (CCMR) point (see your counselor for more information)

### ATTENDANCE

A student must be present 90% of the days in each class during a semester to receive credit. The district can set the number of allowed absences less than but not greater than the 10% established by the state. Credit will be denied in classes that have absences in excess of the number established by the district. Courses failed due to excessive absences cannot be used for grade averaging. Make-up hours may be allowed.

### REQUIRED COURSES

These courses are required to fulfill state educational guidelines. A course may or may not have a prerequisite; a prerequisite is a course that must be taken prior to the course under consideration. It is the expectation of Azle High School that all students will be enrolled in a Math and Science course each year they are a high school student. This is to promote college and career readiness for student success beyond high school.

## **ELECTIVE COURSES**

In addition to required state courses, students must choose other courses to complete their schedules. The number of electives varies from year to year. Elective courses or credits may be selected from additional core academic courses or from courses in the other departments.

## **PHYSICAL EDUCATION COURSES**

One unit of physical education (P.E.) is required of all students for graduation. The P.E. graduation requirement may be satisfied through P.E. classes, athletics, athletic training, dance, cheerleading, and marching band. Off campus P.E. (OCPE) waivers may be granted in extenuating circumstances. OCPE waivers accommodate students who are making a serious effort to develop higher-level skills in a specific activity that exceed what the school district can offer through the general physical education program. Students will be expected to be physically educated, along with being physically active. They will be expected to show accountability of skill development, learned physical activity and health concepts and social development through participation in their selected physical activity that is based on the Texas Essential Knowledge and Skills for Physical Education. No more than four physical education credits may count towards graduation.

## **LOCAL CREDIT COURSES**

Local credit courses are courses approved specifically for our school district for credit beyond the required state credits, and do not apply to graduation credit. Grades earned in local credit courses are not computed into the grade point average. These courses may or may not be recognized by other schools for local credit.

### **Azle High School Graduation Credit Requirements**

• English	4.0
• Mathematics	4.0
• Science	4.0
• Social Studies	4.0
• Health	0.5
• Speech	0.5
• Physical Education	1.0
• Technology App.	1.0
• Fine Arts	1.0
• Foreign Language	2.0
• Electives	<u>6.0</u>
<b>TOTAL CREDITS:</b>	<b>28.0</b>

## **MORE WAYS TO EARN CREDIT**

In addition to regular course offerings, alternate programs provide enriching experiences and credit. The following is a list of these additional programs. Consult with a counselor for more detailed information.

### **CREDIT BY EXAM**

Credit by exam is designed as an option for those who are enrolled as full-time students at AHS. Only passing grades will be recorded on the student's transcript and computed in the credits toward graduation and GPA. Students are responsible for the fees that are established by the testing entity. A student who has previously failed a course must make a score of 70 or higher to receive credit. A student who has not had previous instruction in a course must make a score of 80 or higher to receive credit. Further information and requirements about credit by exam may be obtained in the Counseling office.

### **CORRESPONDENCE COURSES**

Students are allowed to take correspondence courses to earn credit for early graduation or for credit recovery. Correspondence courses should be taken with accredited programs such as Texas Tech's Outreach and Distance Education Program or The University of Texas at Austin High School. Each correspondence course is a ½ credit. Passing grades for correspondence courses will be recorded on the student's transcript and computed in the credits toward graduation and GPA. Students are responsible for the fees that are established by the correspondence program. Please visit with the counselor before ordering a course, both to determine if the school is accredited and to ensure the correct courses are taken.

### **TEXAS VIRTUAL SCHOOL NETWORK**

The Texas Virtual School Network (TxVSN) has been established by the state as one method of distance learning. TxVSN provides online courses to students in public school districts and open-enrollment charter schools. The Texas Virtual School Network is a clearinghouse of rigorous online courses offered by approved providers. TxVSN courses are graded courses by approved providers. All TxVSN courses attempted for high school credit are recorded on the student's high school transcript and are calculated into the student's grade point average. See your counselor for courses offered through TxVSN, the enrollment process and associated course fees. Unless an exception is made by the principal, a student will not be allowed to enroll in a TxVSN course if the school offers the same or a similar course. More information can be found at [www.txvsn.org](http://www.txvsn.org).



### **APEX CREDIT RECOVERY**

For many students, the need to recover only one or two course credits is all that stands between them and graduating from high school. APEX credit recovery provides a level of rigor and learning similar to regular classes. Digital learning makes it possible to offer a personalized credit recovery program that addresses the diverse learning needs of all credit recovery students. Students progress through lessons by interacting with each concept as they are prompted to observe, inquire, create, connect, and confirm. This ongoing interaction promotes student responsibility for — and ownership of — their individual learning experience. See your counselor for specific information.

## **SCHEDULE CHANGES**

A schedule change is not always the best solution to every situation. We encourage our parents and students to meet with the teacher to address any ongoing issues with the hope that the situation can be resolved without a schedule change. We believe in open communication between all parties and want the best possible outcome for the student. Students were guided through the course selection process during spring registration. Course selections made during registration indicate how many teachers and sections will be needed for a course. The process allows administrators to plan and to hire for optimum academic strength. When students are permitted to randomly change schedules, classes become overcrowded. Careful selections benefit everyone.

### **Schedule change protocol for Advanced Academic courses:**

	<b>Azle High School</b> <b>Advanced Academic Schedule Change Request Form</b>	
Name: _____ ID#: _____		
Course to Drop: _____ Teacher: _____		
<ul style="list-style-type: none"><li>• No schedule changes will be made during the first 3 weeks of school. Students can request a schedule change beginning Sept. 3<sup>rd</sup>. Requests made after the first six weeks will take place 2<sup>nd</sup> semester.</li><li>• No schedule change will be made until the following has been completed:<ul style="list-style-type: none"><li>◦ Student has attended tutorials</li><li>◦ Student has corrected/re-done all failing assignments</li><li>◦ Student doesn't have any missing work</li><li>◦ Parent/Teacher contact has been made (in person, phone call, email)</li></ul></li></ul>		
Why are you wanting to drop the course?		
Student must complete the following steps before schedule change request will be granted:		Teacher Initials
Attend tutorials	Provide dates of all tutorials attended:	
Corrected all failing assignments & no missing assignments		
Parent Teacher Contact has been made	Provide date and method of contact.	
All steps above have been completed and schedule change is approved:		Signature
Student		
Parent		
Teacher		
Academic AP		

## **EARLY GRADUATION**

Students who would like to complete high school in 36-41 months are given the opportunity through early graduation. Students will be responsible for all tuition and fees related to graduating early. Students and parents are asked to consider these options very carefully and plan far in advance. Students who choose to graduate early are not eligible for Valedictorian, Salutatorian or "Top Ten" recognition, nor will this ranking be reflected on official transcripts. See your counselor for more information about early graduation programs.

### Traditional Early Graduation Program

This plan requires successful completion of all required courses on either the Distinguished or Foundation with Endorsement high school graduation programs (minimum of 28 credits). Additional criteria include:

- Passing all required state assessments
- Comply with the Texas Attendance law
- Fulfilling the Speech requirement, Cardiopulmonary Resuscitation training, and Training on Proper Interaction with Peace officers
- Completing a FAFSA or TASFA college financial aid application
- The student must meet at least one state accountability CCMR indicator

### Texas First Early Diploma Program and Texas First Scholarship Program

The Texas First Early Diploma Program allows high school students who demonstrate early readiness for college to graduate early from high school. If you graduate two or more semester before your class, you'll receive a two-semester Texas First Scholarship, equivalent to the amount of the TEXAS grant, upon admission to any Texas public institution of higher education, including colleges, universities, and technical colleges. **The Texas First Diploma does not guarantee automatic admission for students.** The scholarship offer will expire at the end of the first academic year following your graduation.

A student is entitled to early high school graduation under the Texas First Early Diploma Program if the student meets the following criteria:

1. Earned at least twenty-two (22) high school credits
2. Earned a final Grade Point Average equivalent to 3.0 on a 4.0 scale
3. Earned an overall scaled score in at least the 80th percentile on one or more of the following assessments: ACT, SAT, PSAT/NMSQT, TSIA/TSIA2, or GED, or alternatively has a grade point average in the top ten percent of the student's current class during the current or semester and
4. Completed the requirement of STAAR EOC examinations for English I or English II, Algebra I, and Biology
5. Demonstrated mastery of each subject area of English/Language Arts, Mathematics, Science, Social Studies, and a language other than English (LOTE). A student may demonstrate mastery of each subject area, as applicable, by meeting one of the following criteria for each required subject area:
  - a. Credit earned in a course in the core curriculum of an institution of higher education in which the student received at least a C; or
  - b. Meeting the minimum standards (MS) on the assessments in the graphic below:

	English	MS	Math	MS	Science (Bio, Phys, Chem, or other Sci)	MS	Social Studies (Hist, Govt, Eco, Psych, or other SS)	MS	LOTE (World Lang / Comp Sci)	MS
SAT	EBRW	480	Math	530	SAT ST	700	SAT ST	690	SAT ST	730
ACT	English	18	Math	22	Science	23	Reading	22	-----	-----
PSAT / NMSQT	EBRW	460	Math	510	---	---	-----	---	-----	---
AP	English	3	Math	3	AP ST	3	AP ST	3	AP ST	3
CLEP	English	50	Math	50	CLEP ST	50	CLEP ST	50	CLEP ST	50
TSIA2	ELAR	945	Math	950	---	---	-----	---	-----	---

**MS** - Minimum Score / **ST** - Subject Test / **E** - Essay

## **TRANSFER STUDENTS**

Out-of-state transfer students must complete all state graduation requirements to be eligible for a Texas (Azle ISD) diploma. Incoming transfer credits toward graduation will be accepted from accredited public schools and from private or parochial schools accredited by AdvancEd. The North Central Association Commission on Accreditation and School Improvement (NCA CASI) and the Southern Association of Colleges and Schools Council on Accreditation and School Improvement (SACS CASI) are accreditation divisions of AdvancED. Credits from non-accredited public, private or parochial schools or from home schooling will not transfer.

## **TESTS**

### **STAAR**

STAAR assessments are based on the Texas Essential Knowledge and Skills (TEKS), the standards designed to prepare students to succeed in college and careers and to compete globally. Students must take STAAR End Of Course assessments for all courses in which they are enrolled and for which there is a STAAR EOC assessment available, including: English 1, English 2, Algebra 1, Biology and US History. In order to graduate, students must meet the “Approaches Grade Level” performance requirement in each of the content areas. Additional testing opportunities will be offered to the student until the “Approaches Grade Level” is attained. If students do not earn a score of “Approaches” on a STAAR EOC, they may be required to attend 30 hours of tutoring outside of school hours and they may be scheduled into a STAAR remediation course.

### **PSAT / NMSQT**

This test is offered one time annually in October is designed to test the verbal, mathematical, and written skills of students. It is also designed to aid students in estimating their ability to do college work and guide them in making college plans. National Merit Scholarship recipients are determined from scores acquired from the PSAT taken during the junior year. Another category of the National Merit Scholarship competition is that of Commended Status (those who score in the top five percent nationally on the Selection Index). These students do not continue in the competition, but they do receive notification and this designation may be sent with college applications and used in scholarship applications. Students may use Commended Status to qualify for a Performance Acknowledgement.

### **SAT / ACT**

The ACT and/or SAT exams are systems of testing prospective college students for the purpose of admission and counseling. Students should find out which test is required or preferred by the colleges they are interested in attending. These tests are administered several times during the year at various locations. Students usually take these at the end of the junior year or at the beginning of the senior year. The ACT and SAT may be taken as many times as the student wants to take the test. Each of these tests has a required fee that must be paid at the time of registration; however, fee waivers are available for students who qualify. Fee waivers may be obtained in the Counseling office and room F0 and registration for both exams is online.

SAT— [www.collegeboard.org](http://www.collegeboard.org)    ACT— [www.actstudent.org](http://www.actstudent.org)

### **TSI**

The TSI Test is a requirement at Texas public colleges and universities. The test must be taken before students are allowed to enroll in college courses. Scores on the ACT or SAT may exempt the student from the TSI Test; however, students should contact the college of their choice regarding TSI exemptions.

### **ASVAB**

The Armed Services Vocational Aptitude Battery is available to students in grades 10-12 annually. It measures aptitudes and abilities and relates them to specific occupations in civilian and military life. Students are strongly encouraged to take this test to help them make wise career choices.

## HIGHER EDUCATION

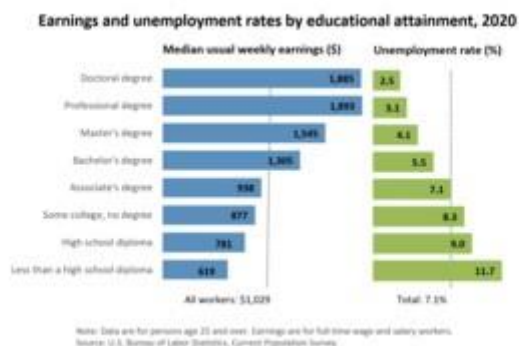
### GO GET IT!

Two-year college, four-year university, or technical school? Whatever you decide, just go! More education can make a huge difference in your life. It can open doors of opportunity, financially and personally. It can improve the quality of life you enjoy - from the type of home you can raise your children in to the career opportunities you could have. Education can provide you with financial security so that you do not have the constant worry that comes from living paycheck to paycheck. You can save the money you earn for everything from emergencies to family vacations. Those with a degree can qualify for jobs with benefits such as healthcare, dental and paid vacation. College graduates especially are more likely to own a home (yard and garage included) in a neighborhood with quality schools and very low crime rates. Education can earn you a place of safety and solace for your family, somewhere you can be proud to call home.

College is about more than training for a career. It's also about discovering yourself and learning to think and live independently - a lot of that occurs outside the classroom. The new people you meet, the new environments you visit, the new ideas you find – these opportunities help you learn more about life.

### Why go to college?

- Explore your interests
- Expand your knowledge and skills
- Increase your understanding of the world and your community
- Meet lifelong friends
- Increase your earning potential – the more school you complete, the more you could earn!



## COLLEGE VISITS

Students are encouraged to visit colleges to get a feel for the campus. Visiting colleges can help you narrow your selections based on what is important to you:

- Location
- Size
- Campus Appeal
- Academics
- Social Life
- Total Cost – Including aid

Both Juniors and Seniors are allowed two college days throughout the school year. Before you go, be sure to set up an appointment with the admissions office, dress nicely and ask questions. You must pick up a permission form from Mrs. Roberts in F0 prior to your visit and the form will be due back to her within **three days** of the visit. Students may not visit the same college twice. This day does count as an absence, but does not count against semester exam exemptions if a college seal, card or official college letter is attached to it. All college visits must be completed prior to **May 1<sup>st</sup>**. College visits after May 1<sup>st</sup> will be considered an excused absence.



## **AUTOMATIC ADMISSION POLICY**

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

- (1) Earn a grade point average in the **top 10 percent\*** of his/her high school graduating class;
- (2) Graduate from a Texas public or private high school;
- (3) Successfully complete the requirements for the Distinguished Level of Achievement in high school OR satisfy ACT's College Readiness Benchmarks on the ACT college entrance exam or earn a score of at least 1,500 out of 2,400 on the SAT college entrance exam; **and**
- (4) Apply for admission to a state college or university within the first two school years after graduation from high school.

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

### **\*The University of Texas at Austin**

Beginning with admissions for the 2011-2012 school year, The University of Texas at Austin (UT) is no longer required to automatically admit applicants in excess of 75% of its enrollment capacity for first-time resident undergraduate students. Should the number of applicants who qualify for automatic admission exceed 75% of enrollment capacity, UT shall provide notice of the percentage of qualified applicants that are anticipated to be offered admission. For the 2025-2026 academic year, UT has determined that it will automatically admit all eligible applicants who rank within the top 5% of their graduating classes. Please note that students admitted to UT Austin under the Automatic Admission policy will be required to complete at least 6 semester credit hours during evening or other low-demand hours in order to ensure the efficient use of available classrooms.

For questions related to the Automatic Admission policy, please visit the Texas Education Agency's Automatic College Admission webpage at <http://www.tea.state.tx.us/index2.aspx?id=2147485632>.

### **\*Tarleton State University**

Beginning with the 2021-2022 school year, Tarleton will guarantee admission to AHS seniors who graduate in the top 50 percent of their class. In addition, Tarleton will provide annual scholarships designated to this program for seniors who graduate in the top 25% of their class. As part of the Distinguished High School Partnership, Tarleton also will waive ACT or SAT requirements for students in the top 25% of their class and application fees for students who qualify.

The President's Guaranteed Scholarship Program assures first-time-in-college students, graduating in the top 50% of their high school class, between \$1,000 and \$5,000 in scholarships. Admitted freshmen must submit a general scholarship application to determine eligibility. For more information on the President's Guaranteed Scholarship Program, go to <https://www.tarleton.edu/admissions/dhsp/>.

## FINANCIAL AID

Do you want to go to college, but need help paying for it? Federal Student Aid, an office of the U.S. Department of Education, has over \$100 billion available to help students like you pay for college. Most students pay for their education using financial aid. Financial Aid is money from the federal and state government, the institution of higher education, and private resources that assist a family in meeting the cost of the student's education. There are three different types of financial aid:

- **Grants** - Need based funds the student does not repay
- **Work Study** - Need based award which allows the student to participate actively in meeting the cost of their education while gaining valuable work experience
- **Loans** - Borrowed money that must be repaid. All loans accrue interest, but each type differs in how and when interest is accrued.

In accordance with Texas Education Code (TEC), §28.0256, beginning with students enrolled in 12th grade during the 2021-2022 school year, **each student must do one of the following in order to graduate:**

1. Complete and submit a Free Application for Federal Student Aid (**FAFSA**);
2. Complete and submit a Texas Application for State Financial Aid (**TASFA**); or
3. Submit a signed **Opt-Out** form.

Use this link <https://www.azleisd.net/o/ahs/page/fafsa-qa> to access information on scholarships or financial aid, how to file the FAFSA (Free Application for Federal Student Aid) or TASFA (Texas Application for State Financial Aid) as well as find the Opt-Out forms if you choose to not file the FAFSA or TASFA.

### Toward EXcellence, Access, and Success Grant Program (TEXAS Grant)

**Program Purpose:** Provide grant aid to students with financial need who are attending a Texas public university or health-related institution. Note: Funding is limited. Each year institutions try to award funds to as many eligible students as possible. However, all eligible students may not receive funding.

#### To be eligible for a TEXAS Grant award, a student must:

- Be classified by the institution as a Texas resident
- Be registered with Selective Service, or be exempt
- Have financial need, as determined by the institution
- Not have been convicted of a felony or crime involving a controlled substance

*Initial award priority consideration is given to recipients who meet at least one high school graduation requirement in at least two of the following four areas:*

AREA	HIGH SCHOOL GRADUATION REQUIREMENTS
<b>Advanced Academic Program</b>	- Complete 12 hours of college credit (dual credit or AP courses) - Complete the equivalent of the Distinguished Level of Achievement
<b>TSI Readiness</b>	- Meet the Texas Success Initiatives (TSI) assessment thresholds or qualify for an exemption
<b>Class Standing</b>	- Graduate in the top 1/3 of the high school graduating class - Graduate with a GPA of at least 3.0 on a 4-point scale or the equivalent
<b>Advanced Math</b>	- Complete at least one math course beyond Algebra II - Complete at least one advanced career and technical or technical applications course, as determined by the Texas Education Agency

**Award Amount:** For the 2023-24 academic year an eligible student may receive up to \$6,472 per semester.

**Application Process:** Complete and submit the Free Application for Federal Student Aid (FAFSA). If you are not eligible to complete the FAFSA, you may submit the Texas Application for State Financial Aid (TASFA). These applications are available October 1 each year.

## **COLLEGE PREPARATION TIMELINE**

### **Grade 8**

- Students should begin determining career fields of interest and researching those careers in their Project Success course
- Middle school counselors will guide 8<sup>th</sup> grade students through the Schoollinks Assessments
- Each student will have an opportunity to meet with his/her counselor to plan course selections for the high school years
- Parents and students will be invited to general information sessions
- It is strongly recommended that each student thoroughly read the course selection book and carefully choose courses for high school
- Students will complete a Personal Graduation Plan and will select an Endorsement area based on their career interest areas in accordance with the Programs of Study.
- Students should begin reading college catalogs and publications that provide college profiles and admission requirements
- Students should select courses to fit overall planning which projects beyond the high school years. Interest and ability should determine choices

### **Grade 9**

Welcome to High School! This is officially your first year of high school and your grades will be included on your high school transcript

Counselors will guide 9<sup>th</sup> grade students through the Schoollinks Assessments. Additionally, students should:

- Choose classes that are challenging
- Taking Career and Technology classes to help you to explore your interests
- Think about careers that interest you and talk to people in those fields
- Goals and objectives that were chosen in 8<sup>th</sup> grade need to be re-evaluated. You and your counselor will re-evaluate your projected four-year plan and career goals each year
- Keep your stress level low by staying organized
- Get involved. Pick new extracurricular and community activities. Colleges look for students who are involved, who have a highly developed talent or skill, and who have attained leadership positions
- Create personal file or portfolio that contains copies of report cards, certificates, a list of awards or honors you have received, and a list of school and community organizations including offices you hold

### **Grade 10**

Counselors will guide 10<sup>th</sup> grade students through the Schoollinks Assessments. Additionally, students should:

- Review their projected graduation plan
- Take courses that are challenging and are suitable to their future career plans
- Take the PSAT in October as practice for the PSAT/NMSQT that juniors take for scholarship consideration
- Analyze their PSAT results and establish personal goals
- Continue to review college publications
- Begin to visit colleges in the summer, especially if you are interested in a highly selective college
- Make sure their grades are representative of their abilities
- Continue adding to and updating their resume

## **Grade 11**

Counselors will guide 11<sup>th</sup> grade students through the Schoollinks Assessments. Additionally, students should:

- Review their projected graduation plan and narrow college choices
- Confer with parent(s) and the counselor to decide on courses for the senior year and to discuss post-graduation plans
- Take challenging courses
- Attend any of the College/Career/Military information sessions in their area and talk to personnel
- Take the PSAT in October
- Attend the “Just for Juniors Night” presentation in the spring
- Apply for any scholarships that your parents’ employers may provide and any scholarships that are available to junior competition
- Pay attention to scholarships available online <https://www.azleisd.net/o/ahs/page/scholarships-information>
- Take the SAT and/or ACT in the late spring
- Visit colleges (two college days allowed per year during school days)
- Research college information
- Earn grades representative of your ability
- Continue adding to and updating your resume

## **Grade 12**

Senior students should:

- Finalize college choices and send letters/applications to the colleges of your choice
- Check the Counseling office and F0 to apply for any scholarships for which you may qualify
- Confer with your counselor in early fall
- Attend the College/Career/Military information sessions with your parent(s)
- Attend the “Senior Summit/Financial Aid Night” presentation in the fall
- Take the SAT and/or ACT and necessary achievement tests in October or November
- Send early decision applications in the fall semester
- Send in housing applications in early fall, especially to colleges that are highly competitive for dorm space
- Analyze SAT and ACT test results in December
- Send Financial Aid applications (FAFSA) in October
- Pay attention to scholarships available online <https://www.azleisd.net/o/ahs/page/scholarships-information>
- Local scholarship applications will be available in March in the Counseling office
- Continue to add to and update your resume

## HIGH SCHOOL COURSE PLANNING

Planning a four-year high school program is a serious undertaking. Although many of your courses will be determined by the graduation plan you select, you will still have many other choices to make during your years of school. Your course selection should be guided largely by your plans for the future.

Azle ISD provides a wide range of programs that prepare students for post-high school experiences. The programs offered allow a student to choose the high school program best for him/her, whether that program is the traditional college preparatory or a career preparatory program. By planning wisely, you can create the future that is most appropriate for you.

This guidebook is designed to help you select courses during your high school years that will support your future education and employment plans. The majority of employment opportunities require specific skills and education beyond high school. Determining which direction you want to go is not always easy. To help you decide on your pathway there are several tools that are available to you including the Schoollinks Assessments.

Additionally, take your time and make good decisions when you choose your courses. You can always change your pathway or cluster. Part of being a high school student is about exploring options. The intent of this section is to give you some ideas to think about as you continue your journey towards a productive and fulfilling life.

Parents:

- Please spend time going over high school course selections with your student
- Please help your student understand the relationship between current educational choices and future career options
- Please get involved in school activities such as Just for Juniors night, Senior Summit night, College and Career Day, Financial Aid Night, and guest speaker presentations

The purpose of the following worksheets is to help you and your student plan high school courses based on interest, aptitudes and career choices. Please remember students will be required to take core academic subjects as well as electives.

- **Endorsement Worksheets** – These worksheets are used by counselors to track students' academic progress towards their chosen Endorsement area. Each box represents a semester grade. When all boxes are filled with passing grades and a passing score has been achieved on all STAAR tests, the student may graduate. Students are allowed to change their Endorsement at any time before their junior year. All changes require a parent signature.
- **Resources for High School and Beyond** – This is a list of helpful resources for college and career planning.

# **BUSINESS & INDUSTRY ENDORSEMENT**

Name \_\_\_\_\_

School ID # \_\_\_\_\_

ENGLISH (4)	English I	English II	English III	English IV
MATH (4)	Algebra I	Geometry	Algebra II	Fourth Math
SCIENCE (4)	Biology	Chemistry	Third Science	Fourth Science
SOCIAL STUDIES (4)	World Geography	World History	US History	Govt    Eco
Professional Communications/ Leadworthy	Prof. Comm.    Leadworthy	<p>In order to earn the Business &amp; Industry endorsement, students must complete a coherent sequence of FOUR credits in Career &amp; Technical Education (CTE) that includes at least two courses in the same career cluster and at least one advanced CTE course.</p> <p>OR</p> <p>Students may also earn this endorsement by completing four English elective credits to include three levels in one of the following areas:</p> <p><b>Business &amp; Industry Career Clusters:</b>            Agriculture, Food and Natural Resources            Architecture &amp; Construction            Manufacturing            Transportation, Distribution &amp; Logistics            Business Management &amp; Administration            Finance            Marketing            Hospitality &amp; Tourism            Information Technology            Arts, Audio/Visual Technology &amp; Communication</p> <p><b>English electives:</b>            Advanced Journalism: Newspaper            Advanced Journalism: Yearbook</p>		
PHYSICAL EDUCATION (1)				
TECHNOLOGY (1)				
FINE ART (1)				
OTHER LANGUAGES (2)	Span 1/French 1/ASL 1	Span 2/French 2/ASL 2	<b>Additional Endorsements:</b> _____	
ACADEMIC ELECTIVES (4.5 + Health and an advanced CTE Course)	Health			<b>STAAR TESTS</b> English 1 _____ Algebra 1 _____ Biology _____ English 2 _____ US History _____
<b>Total 28 required credits</b>			Advanced CTE Course	

**Performance Acknowledgment** — a student may earn this distinction for outstanding performance in any ONE of the following areas:

- In a dual credit course
- In bilingualism/biliteracy
- On an AP test
- On the PSAT®, SAT® or ACT® tests
- Business or industry certification

**Distinguished Achievement** — completion of the courses on this endorsement plan will qualify a student for the Distinguished Level of Achievement which will be noted on the student's transcript. A student must earn this level of achievement to be eligible for top 10% automatic admission.

## **BUSINESS AND INDUSTRY ENDORSEMENT**

# **PUBLIC SERVICES** **ENDORSEMENT**

Name \_\_\_\_\_

School ID # \_\_\_\_\_

ENGLISH (4)	English I	English II	English III	English IV
MATH (4)	Algebra I	Geometry	Algebra II	Fourth Math
SCIENCE (4)	Biology	Chemistry	Third Science	Fourth Science
SOCIAL STUDIES (4)	World Geography	World History	US History	Govt    Eco
Professional Communications/ Leadworthy	Prof. Comm.	Leadworthy		
PHYSICAL EDUCATION (1)	<p>In order to earn the Public Services endorsement, students must complete a coherent sequence of <b>FOUR</b> credits in Career &amp; Technical Education (CTE) that includes at least two courses in the same career cluster and at least one advanced CTE course.</p> <p><b>Public Services Career Clusters:</b>            Education and Training            Government &amp; Public Administration            Health Science            Human Services            Law, Public Safety, Corrections &amp; Security</p>			
TECHNOLOGY (1)				
FINE ART (1)				
OTHER LANGUAGES (2)			Span 1/French 1/ASL 1	Span 2/French 2/ASL 2
ACADEMIC ELECTIVES (4.5 + Health and an advanced CTE Course)	Health			<b>STAAR TESTS</b> English 1 _____ Algebra 1 _____ Biology _____ English 2 _____ US History _____
Total 28 required credits			Advanced CTE Course	

**Performance Acknowledgment** — a student may earn this distinction for outstanding performance in any ONE of the following areas:

- In a dual credit course
- In bilingualism/biliteracy
- On an AP test
- On the PSAT®, SAT® or ACT® tests
- Business or industry certification

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**Distinguished Achievement** — completion of the courses on this endorsement plan will qualify a student for the Distinguished Level of Achievement which will be noted on the student's transcript. A student must earn this level of achievement to be eligible for top 10% automatic admission.

## **PUBLIC SERVICES ENDORSEMENT**

## ARTS & HUMANITIES ENDORSEMENT

Name \_\_\_\_\_

School ID # \_\_\_\_\_

ENGLISH (4)	English I	English II	English III	English IV
MATH (4)	Algebra I	Geometry	Algebra II	Fourth Math
SCIENCE (4)	Biology	Chemistry	Third Science	Fourth Science
SOCIAL STUDIES (4)	World Geography	World History	US History	Govt    Eco
Professional Communications/ Leadworthy	Prof. Comm.	Leadworthy	<p><b>Arts &amp; Humanities Career Clusters:</b></p> <p>A total of five social studies credits</p> <p>Four levels of the same language in a language other than English (LOTE)</p> <p>Two levels of the same language in a LOTE and two levels of a different language in a LOTE</p> <p>A coherent sequence of four credits from one or two of the following categories:</p> <p>Art Music Dance Theatre</p>	
PHYSICAL EDUCATION (1)				
TECHNOLOGY (1)				
OR				
FINE ART (1)			Earn five credits in social studies	
OTHER LANGUAGES (2)	Span 1/French 1/ASL 1	Span 2/French 2/ASL 2	Additional Endorsements:	
ACADEMIC ELECTIVES (5.5 + Health)	Health			<b>STAAR TESTS</b> English 1 _____ Algebra 1 _____ Biology _____ English 2 _____ US History _____
Total 28 required credits				

**Performance Acknowledgment** — a student may earn this distinction for outstanding performance in any ONE of the following areas:

- In a dual credit course
- In bilingualism/biliteracy
- On an AP test
- On the PSAT®, SAT® or ACT® tests
- Business or industry certification

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**Distinguished Achievement** — completion of the courses on this endorsement plan will qualify a student for the Distinguished Level of Achievement which will be noted on the student's transcript. A student must earn this level of achievement to be eligible for top 10% automatic admission.

## ARTS AND HUMANITIES ENDORSEMENT



# SCIENCE, TECHNOLOGY, ENGINEERING & MATH ENDORSEMENT

Name \_\_\_\_\_

School ID # \_\_\_\_\_

ENGLISH (4)	English I	English II	English III	English IV
MATH (4)	Algebra I	Geometry	Algebra II	Fourth Math
SCIENCE (4)	Biology	Chemistry	Physics	Fourth Science
SOCIAL STUDIES (4)	World Geography	World History	US History	Govt    Eco
Professional Communications/ Leadworthy	Prof. Comm.	Leadworthy		
PHYSICAL EDUCATION (1)	<p>Students may earn a STEM endorsement by successfully completing Algebra II, Chemistry and Physics and either:</p> <p>Two additional math courses for which Algebra II is a prerequisite</p> <p style="text-align: center;"><b>OR</b></p> <p>Biology, Chemistry, Physics and two additional science courses</p>			
TECHNOLOGY (1)				
FINE ART (1)				
OTHER LANGUAGES (2)	Span 1/French 1/ASL 1	Span 2/French 2/ASL 2	<p><i>Additional Endorsements:</i></p> <p>_____</p>	
ACADEMIC ELECTIVES (5.5 + Health)	Health			<p><u>STAAR TESTS</u></p> <p>English 1 _____</p> <p>Algebra 1 _____</p> <p>Biology _____</p> <p>English 2 _____</p> <p>US History _____</p>
Total 28 required credits			Fifth Math/Science	

**Performance Acknowledgment** — a student may earn this distinction for outstanding performance in any ONE of the following areas:

- In a dual credit course
- In bilingualism/biliteracy
- On an AP test
- On the PSAT®, SAT® or ACT® tests
- Business or industry certification

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**Distinguished Achievement** — completion of the courses on this endorsement plan will qualify a student for the Distinguished Level of Achievement which will be noted on the student's transcript. A student must earn this level of achievement to be eligible for top 10% automatic admission.

## SCIENCE, TECHNOLOGY, ENGINEERING & MATH ENDORSEMENT

1st time 9th grade 2014-2015 and after

# **MULTIDISCIPLINARY ENDORSEMENT**

Name \_\_\_\_\_

School ID # \_\_\_\_\_

ENGLISH (4)	English I	English II	English III	English IV
MATH (4)	Algebra I	Geometry	Algebra II	Fourth Math
SCIENCE (4)	Biology	Chemistry	Third Science	Fourth Science
SOCIAL STUDIES (4)	World Geography	World History	US History	Gov't. Eco.
Professional Communications/ Teen Leadership	Prof. Comm.	T. Lead		
PHYSICAL EDUCATION (1)				
TECHNOLOGY (1)				
FINE ART (1)				
OTHER LANGUAGES (2)	Span I or French I	Span II or French II		
ACADEMIC ELECTIVES (5.5 + Health)	Health			STAAR TESTS
Total 28 required credits				English 1 English 2 Algebra 1 Biology US History

**Performance Acknowledgment** — a student may earn this distinction for outstanding performance in any ONE of the following areas:

- In a dual credit course
- In bilingualism/biliteracy
- On an AP test
- On the PSAT®, SAT® or ACT® tests
- Business or industry certification

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**Distinguished Achievement** — completion of the courses on this endorsement plan will qualify a student for the Distinguished Level of Achievement which will be noted on the student's transcript. A student must earn this level of achievement to be eligible for top 10% automatic admission.

## **MULTIDISCIPLINARY ENDORSEMENT**

## **Performance Acknowledgements**

A student may earn a performance acknowledgement on their transcript for outstanding performance:

1. In a dual credit course by successfully completing at least 12 hours of college academic courses with a grade of 3.0 or higher on a scale of 4.0 OR
  - An associate degree while in high school
2. In bilingualism and biliteracy by demonstrating proficiency in two or more languages by:
  - Completing all English language arts requirements and maintaining a minimum grade point average (GPA) of 80 or above 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 80
    - 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 80
    - Demonstrated proficiency in one or more languages other than English through one of the following methods:
      - ✧ A score of 3 or higher on a College Board AP exam for languages other than English
      - ✧ Performance on a national assessment of language proficiency in a language other than English of at least Intermediate High or its equivalent
  - In addition to meeting the requirements to earn a performance acknowledgment in bilingualism and biliteracy, an English language learner must also have:
    - Participated in and met the exit criteria for a bilingual or English as a second language (ESL) program; and
    - Scored at the Advanced High level on the Texas English Language Proficiency Assessment System (TELPAS)
3. Earning a score of 3 or above on a College Board Advanced Placement examination
4. Earning a score on the Preliminary SAT/National Merit Scholarship Qualifying Test (PSAT/NMSQT) that qualifies the student for recognition as a commended scholar or higher by the College Board and National Merit Scholarship Corporation
5. Earning a combined critical reading and mathematics score of at least 1350 on the SAT<sup>®</sup> examination
6. Earning a composite score of 29 on the ACT<sup>®</sup> examination (excluding the writing subscore)
7. Earning a nationally or internationally recognized business or industry\* certification or license with:
  - Performance on an examination or series of examinations sufficient to obtain a nationally or internationally recognized business or industry certification or
  - Performance on an examination sufficient to obtain a government-required credential to practice a profession

\* Nationally or internationally recognized business or industry certification shall be defined as an industry validated credential that complies with knowledge and skills standards promulgated by a nationally or internationally recognized business, industry, professional, or government entity representing a particular profession or occupation that is issued by or endorsed by:

- a national or international business, industry, or professional organization
- a state agency or other government entity or
- a state-based industry association

Certifications or licensures for performance acknowledgements shall:

- be age appropriate for high school students
- represent a student's substantial course of study and/or end-of-program knowledge and skills
- include an industry recognized examination or series of examinations, an industry validated skill test, or demonstrated proficiency through documented, supervised field experience and
- represent substantial knowledge and multiple skills needed for successful entry into a high-skill occupation

## **PERFORMANCE ACKNOWLEDGEMENTS**

## RESOURCES FOR HIGH SCHOOL AND BEYOND

### TESTING

<a href="http://www.collegeboard.org">www.collegeboard.org</a>	SAT & PSAT – college entrance exam
<a href="http://www.act.org">www.act.org</a>	ACT – college entrance exam
<a href="http://www.testprepreview.com">www.testprepreview.com</a>	ACT & SAT practice tests

### COLLEGE INFORMATION

<a href="http://www.mytexasfuture.org/adult-college/">www.mytexasfuture.org/adult-college/</a>	Website for college bound Texans
<a href="http://www.applytexas.org">www.applytexas.org</a>	Texas Common Application for Texas four-year public universities
<a href="https://collegescorecard.ed.gov/">https://collegescorecard.ed.gov/</a>	College search, compare colleges, careers and majors
<a href="https://bigfuture.collegeboard.org/">https://bigfuture.collegeboard.org/</a>	College search, compare colleges, careers and majors, scholarships, and financial aid
<a href="http://www.txcte.org/resource/gearup-resources">www.txcte.org/resource/gearup-resources</a>	
<a href="https://www.campustours.com/">https://www.campustours.com/</a>	Virtual college tours

### CAREERS

<a href="http://www.texascareercheck.com/">www.texascareercheck.com/</a>	Career Planning Tools
<a href="https://www.careeronestop.org/">https://www.careeronestop.org/</a>	Career planning
<a href="https://www.bls.gov/ooh/">https://www.bls.gov/ooh/</a>	Occupational Outlook Handbook - education or training needed for careers, estimated earnings, job prospects, working conditions
<a href="http://www.onetonline.org">www.onetonline.org</a>	O*Net Career planning

### SCHOLARSHIPS / FINANCIAL AID

<a href="https://studentaid.ed.gov/sa/fafsa">https://studentaid.ed.gov/sa/fafsa</a>	Free Application for Federal Student Aid
<a href="http://www.fastweb.com">www.fastweb.com</a>	Scholarships, jobs, internships, college information
<a href="http://www.appily.com/scholarships">www.appily.com/scholarships</a>	College and scholarship search website
<a href="http://www.unigo.com">www.unigo.com</a>	Scholarships
<a href="http://www.edvisors.com/scholarships/featured-scholarships/">www.edvisors.com/scholarships/featured-scholarships/</a>	
<a href="http://www.scholarships.com">www.scholarships.com</a>	Scholarships
<a href="http://www.salliemae.com/college-planning">www.salliemae.com/college-planning</a>	Scholarships and Sallie Mae information
<a href="http://www.brokescholar.com">www.brokescholar.com</a>	Scholarships
<a href="https://www.niche.com/colleges/scholarships/">https://www.niche.com/colleges/scholarships/</a>	
<a href="https://scholarshipowl.com/">https://scholarshipowl.com/</a>	

# COURSE DESCRIPTIONS

## ENGLISH/ LANGUAGE ARTS

### Suggested Sequence of Courses

Grade Level	Recommended Course of Study	Recommended Honors/AP Course of Study
9 <sup>th</sup> Grade	English 1	Honors English 1
10 <sup>th</sup> Grade	English 2	Honors English 2
11 <sup>th</sup> Grade	English 3	AP English 3
12 <sup>th</sup> Grade	English 4 or OnRamps Dual Enrollment English 4	AP English 4 or OnRamps Dual Enrollment English 4

### **3023-3025 ENGLISH FOR SPEAKERS OF OTHER LANGUAGES I, II, & III**

**Prerequisite:** Counselor recommendation

**Placement:** 9 – 12

**Credits:** 1

This basic course provides the student whose native language is not English with individual instruction in reading, spelling, and writing the English language. The course stresses concepts and skills in listening, speaking, reading, and writing. Students may earn two credits that satisfy two of the required English credits. ESOL III is local credit only and cannot be used as a state elective.

### **3001 ENGLISH I**

**Prerequisite:** None

**Placement:** 9

**Credits:** 1

This course covers grammar, literature, composition, vocabulary development, and spelling. Development of reading skills, paragraph writing, and language concepts are stressed. Students focus on various types of literature including plays, novels, and poetry, and develop writing skills through compositions.

### **3011 HONORS ENGLISH I**

**Prerequisite:** None

**Placement:** 9

**Credits:** 1

This course covers all concepts taught in English I. The content area will be covered more in-depth with an added emphasis on the mastery of general essay skills, literary analysis, and critical thinking. Students' appreciation of the classics is enhanced through exploration of various forms of world literature. Concepts and skills in writing, language, literature, and reading are stressed. *This course prepares the student for the Honors English course that may be taken during the sophomore year.*

### **3002 ENGLISH II**

**Prerequisite:** English I

**Placement:** 10

**Credits:** 1

This course introduces a variety of literary forms and continues skill development in language, reading, and composition. Curriculum includes a study of the short story, drama, and the novel, and a grammar review focusing on parts of a sentence, punctuation, and usage. Research skills and vocabulary development will be stressed.

### **3012 HONORS ENGLISH II**

**Prerequisites:** English I

**Placement:** 10

**Credits:** 1

This course will cover all concepts taught in English II. The content area will be covered more in-depth with an added emphasis on the mastery of general essay skills, literary analysis, and critical thinking. Students' appreciation of the classics is enhanced through exploration of various forms of world literature. Concepts and skills in writing, language, literature, and reading are stressed. *This course prepares the student for the AP English courses that may be taken during the junior and senior year.*

### **3003 ENGLISH III**

**Prerequisite:** English II

**Placement:** 11

**Credits:** 1

This course is a chronological survey of American literature from the beginning of history in the US through contemporary times. It coordinates literature, composition, grammar, and vocabulary through representative readings from historical documents, essays, dramas, short stories, and novels of significant American writers.

**3013 AP ENGLISH III—Language and Composition****Prerequisites:** English II**Placement:** 11**Credits:** 1

AP Language and Composition is the equivalent of a freshman composition course at a college or university. This advanced course will emphasize the reading and analysis of nonfiction with a focus on style, content, and rhetoric. Students will write compositions in a variety of modes and for a variety of purposes. Representative works from American literature will be emphasized as well. This course is designed to prepare the student for the Advanced Placement tests. *All students are expected to take the Advanced Placement test.*

**3004 ENGLISH IV****Prerequisite:** English III**Placement:** 12**Credits:** 1

This course focuses on language, composition, and British literature. It includes an intensive study of vocabulary, sentence structure, and multi-paragraph compositions. This course provides the critical reading and writing skills necessary for college and the work force.

**3014 AP ENGLISH IV - Literature and Composition****Prerequisites:** English III**Placement:** 12**Credits:** 1

This course engages students in the careful reading and critical analysis of imaginative literature. Through the reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism and tone. The course includes intensive study of representative works from various genres and periods, concentrating on works of recognized literary merit. *All students are expected to take the Advanced Placement test.*

**3034 ONRAMPS ENGLISH IV****Prerequisite:** English III**Placement:** 12**Credits:** 1 credit

Students will learn and practice well established principles of rhetoric and argumentation in order to become more effective in analyzing and producing arguments. Students examine arguments about the American identity and identity formation, both personal and cultural. The course is composed of 8 Big Ideas: Evaluating Sources, Rhetorical Situations, Analyzing Arguments, Conducting Research, Identifying Underlying Values, Formulating a Research Question, Giving and Receiving Feedback, and Drafting and Revising. This is a Texas Core Curriculum course in which students may earn six hours of college credit for ENGL 1301 & 1302. A grade of an A or B in each semester of this course may be used towards earning a Performance Acknowledgement.

**Students who take OnRamps courses are expected to pay the associated fees for the course by September 1, 2025.**

**3030 READING****Prerequisite:** None**Placement:** 9 - 12**Credits:** 1

Reading offers students reading instruction to successfully navigate academic demands as well as attain life-long literacy skills. Specific instruction in word recognition, vocabulary, comprehension strategies, and fluency provides students an opportunity to read with competence, confidence, and understanding. Students learn how traditional and electronic texts are organized and how authors choose language for effect. All of these strategies are applied in instructional-level and independent-level texts that cross the content areas.

**3008 DEBATE I****Prerequisite:** None**Placement:** 9 - 12**Credits:** 1

This course is designed to introduce and develop the concept of formalized argument, the skills of persuasion and cross-examination, the power of rhetoric, and the fundamentals of the National Forensic League's Student Congress. The student will learn to prepare affirmative and negative briefs, with evidence, in preparation for eventual participation in varsity level Lincoln-Douglas debate. Participation in individual speaking and debate contests is encouraged.

**3009 DEBATE II****Prerequisite: Debate I or competed in two Speech and Debate Competitions****Placement: 10 - 12****Credits: 1**

Controversial issues arise in aspects of personal, social public, and professional life in modern society. Debate and argumentation are widely used to make decisions and reduce conflict. Students who develop skills in argumentation and debate become interested in current issues, develop sound critical thinking, and sharpen communication skills. They acquire life-long skills for intelligently approaching controversial issues. These classes are for those who want to further their speech and debate skills for competition.

**3010 DEBATE III****Prerequisite: Debate II****Placement: 11 - 12****Credits: 1**

Controversial issues arise in aspects of personal, social public, and professional life in modern society. Debate and argumentation are widely used to make decisions and reduce conflict. Students who develop skills in argumentation and debate become interested in current issues, develop sound critical thinking, and sharpen communication skills. They acquire life-long skills for intelligently approaching controversial issues. These classes are for those who want to further their speech and debate skills for competition.

**3018 DEBATE IV****Prerequisite: Debate III****Placement: 12****Credits: 1**

Controversial issues arise in aspects of personal, social public, and professional life in modern society. Debate and argumentation are widely used to make decisions and reduce conflict. Students who develop skills in argumentation and debate become interested in current issues, develop sound critical thinking, and sharpen communication skills. They acquire life-long skills for intelligently approaching controversial issues. These classes are for those who want to further their speech and debate skills for competition.

**3019 & 3029 PROSE AND POETRY 1 & 2****Prerequisite: None****Placement: 9 - 12****Credits: 1**

Do you love theatre but prefer performing monologues over working in an ensemble? Are you passionate about reading literature or poetry? If so, Oral Interpretation is the perfect fit for you! Oral interpretation involves the study of literature through performance, allowing individuals to convey their interpretation of an author's work. This discipline seamlessly combines a love for acting and reading, with the only restriction being the exclusion of props or costumes. Instead, performers rely on their voices and bodies to convey characters and moods. Students in this program learn how to use their bodies and voices to interpret various literary forms, including poetry, drama, prose, children's literature, world literature, and documentary material. Moreover, students are encouraged to create and perform pieces for UIL and NSDA competitions throughout the year. If you enjoy reading aloud, performing monologues, or simply have a deep appreciation for literature, sign up now!

**3015 CREATIVE WRITING****Prerequisite: None****Placement: 9 - 12****Credits: 1**

Students will develop their creative writing abilities by focusing on craft and style. Students will read and evaluate the effectiveness of fiction of varying styles. They will write and workshop short stories and plays to include in their final portfolio. During the final section, students will learn poetic vocabulary and read and interpret poems of varying styles. Students will be expected to deliver their writing to an audience.

# MATHEMATICS

## Suggested Sequence of Courses

Grade Level	Recommended Course of Study	Recommended Honors/AP Course of Study
9 <sup>th</sup> Grade	Algebra 1	Honors Geometry
10 <sup>th</sup> Grade	Geometry	Honors Algebra 2
11 <sup>th</sup> Grade	Algebra 2	OnRamps Algebra / AP Pre-Calculus
12 <sup>th</sup> Grade	College Prep Math or OnRamps Algebra	OnRamps Statistics / AP Calculus

*In the area of mathematics, college entrance requirements vary. Students should check with the college of their choice prior to planning their high school mathematics courses.*

### **3101 ALGEBRA I**

**Prerequisite: None**

**Placement: 9 – 12**

**Credits: 1**

Algebra I is the gateway to all higher math courses. Every student graduating from a Texas high school must complete Algebra I successfully. The areas of study will include operations with properties of real numbers, functions and graphs, solving linear equations and inequalities, solving quadratics, working with polynomials, and exponents.

### **3111 HONORS ALGEBRA I**

**Prerequisite: None**

**Placement: 9**

**Credits: 1**

This course covers the same content as Algebra 1, but at an accelerated pace with more extensions, depth, and complexity.

### **3102 GEOMETRY**

**Prerequisite: Algebra 1**

**Placement: 9 – 12**

**Credits: 1**

This course will cover geometric thinking and spatial reasoning, relationship of geometric figures and their properties, using definitions, postulates and theorems to verify and justify conjectures, the study of geometric patterns to make generalizations about geometric properties, and the study of dimensionality.

### **3112 HONORS GEOMETRY**

**Prerequisites: Algebra 1**

**Placement: 9 – 10**

**Credits: 1**

This course will cover all concepts taught in Geometry. The content area will be covered more in-depth with an added emphasis on proofs. In addition to the topics covered in Geometry, students will work with a number of other more advanced geometric topics: geometric sequences and series, trigonometric identities and their relationships, an introduction to conic sections using a geometric approach, an introduction to the use of limits to determine approximate values, as well as studying Pick's, Hero's, Cavalier's, and Euler's formulas.

### **3103 FINANCIAL MATHEMATICS**

**Prerequisite: Algebra 1 and Geometry**

**Placement: 10 - 12**

**Credits: 1**

This class will weave mathematical knowledge and skills together to ensure students will be successful in problem solving and using mathematics efficiently and effectively in everyday life. This course will give students tools and methods to apply to problems that arise in everyday life, work place, and society.

### **3104 ALGEBRA II**

**Prerequisite: Geometry**

**Placement: 10 – 12**

**Credits: 1**

This course provides a foundation for higher-level math courses such as Pre-Calculus and Calculus. Some of the areas of study will include systems of linear equations and inequalities, matrices and determinants, quadratic functions, exponential and logarithmic functions, polynomial functions, and rational functions. The graphing calculator will be used extensively in developing concepts and in analysis of data in this course.



**3114 HONORS ALGEBRA II**  
**Prerequisites: Honors Geometry**

**Placement: 10 – 12**  
**Credits: 1**

Using Algebra 1 and Geometry as a basis for studying functions, Honors Algebra 2 lays the foundation for functions by building on what has been learned in Algebra I and Geometry in several areas. Quadratic and radical functions are explored through changing parameters and analysis of real-world problems.

**3115 AP PRE-CALCULUS**  
**Prerequisites: Algebra 2**

**Placement: 11 – 12**  
**Credits: 1**

AP Precalculus prepares students for other higher-level mathematics and science courses. Students study each function type through their graphical, numerical, verbal, and analytical representations and their applications in a variety of contexts. Additionally, students apply their understanding of functions by constructing and validating appropriate function models for scenarios, sets of conditions, and data sets. Modeling is also a key feature of the course. Students select, construct, and validate function models using transformations of functions and regressions. Students learn to select mathematical models-based characteristics of a bivariate data set; characteristics of covarying quantities and their relative rates of change; or a set of characteristics such as zeros, asymptotes, and extrema. Students also identify, interpret, and apply information from a function model for a given context or data set, subject to assumptions and limitations related to the context.

**3107 AP CALCULUS**  
**Prerequisites: AP Pre-Calculus**

**Placement: 12**  
**Credits: 1**

This course is comparable to a first-year calculus course offered in college and students who take this course will be prepared to take the Calculus AP exam to earn college credit. A brief review of functions and limits will be covered but the greatest part of the course will concentrate on an in-depth study of differential and integral calculus. *Students are expected to take the AP Calculus test.*

**3106 MATH MODELS**  
**Prerequisite: Geometry**

**Placement: 11 - 12**  
**Credits: 1**

In this course, students use algebraic, graphical, statistical, and geometric reasoning to recognize patterns and structure, to model information, and to solve real-life applied problems involving money, data, chance, patterns, music, design, and science. Students use a variety of representations (concrete, numerical, algorithmic, and graphical) as well as having regular access to graphing calculator technology. This math course provides a path for students to succeed in Algebra II and prepares them for various post-secondary choices.

**3108 COLLEGE PREP MATH**  
**Prerequisites: Algebra 2**

**Placement: 12**  
**Credits: 1**

College Preparatory Mathematics is a full credit course designed to be a full-year course that prepares students for success in entry-level college courses and/or success on the Texas Success Initiative (TSI) Assessment. College Preparatory Mathematics is a rigorous course that will include student learning outcomes and objectives in the following areas: Elementary Algebra and Functions, Intermediate Algebra and Functions, Geometry and Measurement; and Data Analysis, Statistics, and Probability.

**3117 ONRAMPS STATISTICS**  
**Prerequisite: Algebra 2**

**Placement: 11 - 12**  
**Credits: 1**

OnRamps Statistics is a dual enrollment data analysis course for high school juniors and seniors seeking to develop the quantitative reasoning skills and habits of mind necessary to succeed in the higher education environment. This course will target conceptual understanding and hone highly-relevant mathematical skills through scaffolded introduction to statistical methodologies, informal game play and strategic lab exercises that engage students in hands on analysis of real data. This course offering is a Texas Core Curriculum course in which students may earn three hours of college credit for MATH 1342. A grade of an A or B in this course may be used towards earning a Performance Acknowledgement. **College fees for this course will be paid for by the AHS CTE department.**

**3119 ONRAMPS ALGEBRA****Prerequisite: Algebra 2****Placement: 11 - 12****Credits: 1**

In this course, students deepen their critical thinking skills and develop their ability to persist through challenges as they explore function families: Linear, Absolute Value, Quadratic, Polynomial, Radical, Rational, Exponential, and Logarithmic. Students analyze data algebraically and with technology while developing their knowledge of properties of functions, matrices and systems of equations, and complex numbers. The pedagogy of the course, Inquiry-Based Learning, encourages students to take an active role in the construction of their learning.

OnRamps Algebra is a dual enrollment partnership with the University of Texas at Austin. This is a course in which students may earn three hours of college credit for MATH 1314. A grade of an A or B in this course may be used towards earning a Performance Acknowledgement. **Students who take OnRamps courses are expected to pay the associated fees for the course by September 1, 2025.**

**It is the expectation of Azle High School that all students will be enrolled in a Math and Science course each year they are a high school student. This is to promote college and career readiness for student success beyond high school.**

# SCIENCE

## Suggested Sequence of Courses

Grade Level	Recommended Course of Study	Recommended Honors/AP Course of Study
9 <sup>th</sup> Grade	Biology	Honors Biology
10 <sup>th</sup> Grade	Chemistry	Honors Chemistry
11 <sup>th</sup> Grade	Any additional state approved science course	OnRamps or AP science courses
12 <sup>th</sup> Grade	Any additional state approved science course	OnRamps or AP science courses

### **3202 BIOLOGY**

**Prerequisite:** None

**Placement:** 9 - 10

**Credits:** 1

In Biology, students conduct field and laboratory investigations, use scientific methods during investigations, and make informal decisions using critical thinking and scientific problem-solving. Students study a variety of topics that include the following: structure and function of cells and viruses; growth and development of organisms; cells, tissues, and organs; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; ecosystems; and plants and the environment.

### **3212 HONORS BIOLOGY**

**Prerequisites:** None

**Placement:** 9 – 10

**Credits:** 1

In Honors Biology, students conduct field and laboratory investigations, use scientific methods during investigations, and make informal decisions using critical thinking and scientific problem-solving. Students will be challenged in a variety of topics that include the following: structure and function of cells and viruses; growth and development of organisms; cells, tissues, and organs; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; ecosystems; and plants and the environment.

### **3232 ONRAMPS BIOLOGY**

**Prerequisites:** Biology and Chemistry

**Placement:** 11 - 12

**Credits:** 1

Molecular and cellular biology is the focus of this introductory OnRamps biology course. The course revolves around three big ideas of biology starting with the study of the structure and function of biomolecules. The flow of energy through living systems via photosynthesis and cellular respiration is the second big idea of the class. The course finishes with investigation of how genetic information is expressed and transmitted both within and between cells. This course offering is a Texas Core Curriculum course in which students may earn four hours of college credit for BIOL 1306 and 1106 (a one-hour lab credit). A grade of an A or B in this course may be used towards earning a Performance Acknowledgement. **Students who take OnRamps courses are expected to pay the associated fees for the course by September 1, 2025.**

### **3203 CHEMISTRY**

**Prerequisite:** Biology and Algebra 1

**Placement:** 10 – 12

**Credits:** 1

Chemistry is a lab-oriented course that explores the nature and behavior of matter. Students study a variety of topics that include the following: characteristics of matter; chemical and physical changes in matter; atomic structure; chemical formulas and equations; bonding principles; gas laws; properties of solutions; reaction kinetics; acid/base theory; nuclear chemistry; and oxidation-reduction reactions.

### **3213 HONORS CHEMISTRY**

**Prerequisites:** Biology and Algebra 1

**Placement:** 10 – 12

**Credits:** 1

Honors Chemistry is a comprehensive course that emphasizes the concepts covered in the regular chemistry course as well as mathematical relationships in mechanics, bonding, molecular structure, and chemical reactions. Laboratory experiences will be more challenging as well, with several AP-level labs offered in the course. Students should expect a vigorous curriculum with the expectation of moving on to AP Chemistry and the national AP Chemistry examination.

**3223 AP CHEMISTRY****Prerequisites:** Honors Chemistry**Placement:** 11 - 12**Credits:** 1

The AP Chemistry course is designed to be the equivalent of the general chemistry course taken during the first college year, including both the lecture and laboratory sections. It provides the student the opportunity to pursue and receive college credit with the successful completion of the AP test. Students should be prepared to spend a minimum of 5 hours per week on independent study with an emphasis on chemical calculations. The topics include: atomic structure and theory; chemical bonding; nuclear chemistry; phases of matter; solutions; reactions; stoichiometry; equilibrium; kinetics; thermodynamics; acid-base chemistry; electrochemistry; and introduction to organic chemistry. *Students are expected to take the AP Chemistry test.*

**3233 ONRAMPS CHEMISTRY I****Prerequisites:** Biology and Chemistry**Placement:** 11 - 12**Credits:** 1

OnRamps Chemistry addresses the nature of matter, energy, chemical reactions, and chemical thermodynamics. Throughout the course, students learn to think like scientists by exploring the underlying theoretical foundations of chemistry, making intuitive arguments for how the world works, and supporting those arguments with quantitative measures. Introduction to Chemical Practices I, the course's lab component, introduces students to the techniques of modern experimental chemistry, and is designed to instill basic laboratory and analytical skills. This course offering is a Texas Core Curriculum course in which students may earn three hours of college credit for CH 1311 and one hour of college lab credit for CH 1111. A grade of an A or B in this course may be used towards earning a Performance Acknowledgement. **Students who take OnRamps courses are expected to pay the associated fees for the course by September 1, 2025.**

**3243 ONRAMPS CHEMISTRY II****Prerequisites:** OnRamps Chemistry I**Placement:** 12**Credits:** 1

This course continues the development and application of concepts, theories and laws underlying chemistry that were introduced in OnRamps Chemistry I. The course extends the study of thermodynamics taught in College Chemistry I to the development of chemical equilibria and kinetics with applications to water chemistry and electrochemistry. In addition, students will gain insight into the workings of the material world through introduction to nuclear chemistry, battery technology, polymer chemistry and applications in organic chemistry and biochemistry. This course offering is a Texas Core Curriculum course in which students may earn three hours of college credit for CH 1312 and one hour of college lab credit for CH 1112. A grade of an A or B in this course may be used towards earning a Performance Acknowledgement. **Students who take OnRamps courses are expected to pay the associated fees for the course by September 1, 2025.**

**3204 PHYSICS****Prerequisite:** Algebra 2**Placement:** 10 – 12**Credits:** 1

Physics is taught within the following thematic units: the automobile, sports, space travel and flight, weather, electricity production, waves and home electronics. All content of traditional physics is taught and related to the various aspects of each theme. The content of the course includes: scientific method, history of science, energy, thermodynamics, linear motion, circular motion, Newton's Laws, scalar and vector quantities, dimensional analysis, gravity, matter, heat, electricity, and light and sound. Students will also engage in many laboratory procedures to learn graphing skills and supplement understanding of the content areas.

**3229 ONRAMPS PHYSICS I****Prerequisites:** Algebra 2**Placement:** 11 - 12**Credits:** 1

OnRamps Physics is a dual enrollment course through UT Austin and is an algebra-based (non-calculus) course in mechanics that fulfills a general physics requirement. Students will practice problem-solving and analyzing physical situations involving motion, force, energy, rotations, heat, oscillations, waves, and sound. They will explore concepts in small groups, develop ideas, and explain them. The course lays the groundwork for college majors including engineering, physics, chemistry or mathematics. This course offering is a Texas Core Curriculum course in which students may earn four hours of college credit for PHYS 1301 and 1101. A grade of an A or B in this course may be used towards earning a Performance Acknowledgement. **Students who take OnRamps courses are expected to pay the associated fees for the course by September 1, 2025.**

**3216 AP ENVIRONMENTAL SCIENCE**  
**Prerequisites: Biology and Chemistry**

**Placement: 11 - 12**  
**Credits: 1**

The AP Environmental Science course is designed to be the equivalent of a one-semester college introductory course in environmental science, including both the lecture and laboratory section. Topics include: Scientific analysis, flow of energy, cycling of matter, the solid Earth, atmosphere, biosphere, human population dynamics, resources, and the consequences of global changes. *Students are expected to take the AP Environmental Science test.*

**3217 EARTH SYSTEMS SCIENCE**  
**Prerequisite: Biology and Chemistry**

**Placement: 11 - 12**  
**Credits: 1**

Students will explore the geologic history of the Earth, how Earth systems (the atmosphere, hydrosphere, geosphere, and biosphere) interact, and how these systems are affected by human use.

**3220 ENVIRONMENTAL SYSTEMS**  
**Prerequisite: Biology and Chemistry**

**Placement: 11 - 12**  
**Credits: 1**

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

**3238 ONRAMPS GEOSCIENCE**  
**Prerequisite: Biology and Chemistry**

**Placement: 11 - 12**  
**Credits: 1**

OnRamps Geoscience is a dual enrollment course through UT Austin that covers the fundamentals of how the Earth works, and how it's various systems — the lithosphere, atmosphere, hydrosphere, and biosphere — interact to form the complex world in which we live. It is an integrated science drawing on the fundamental principles of physics, chemistry, biology, and geosciences to explain Earth processes. Many of the most complex and interesting scientific problems of this century, such as energy resources, water supply, and climate change require the skills of geologic thinking to solve. This course offering is a Texas Core Curriculum course in which students may earn three hours of college credit for GEO 1311. A grade of an A or B in this course may be used towards earning a Performance Acknowledgement. **Students who take OnRamps courses are expected to pay the associated fees for the course by September 1, 2025.**

**3215 ANATOMY & PHYSIOLOGY OF HUMAN SYSTEMS**  
**Prerequisite: Biology and Chemistry**

**Placement: 11 - 12**  
**Credits: 1**

Anatomy & Physiology explores the structures of the human body and how those parts carry out their functions. Students study a variety of topics that include medical careers, scientists, energy needs, and responses of the body to internal and external forces, homeostasis processes, electrical conduction processes and interactions, transport systems, environmental factors, anatomical structures and physiology functions, and the processes of reproduction, growth, and development. Students enrolled in this course should be able to dissect preserved animal and specific organ specimens. Videos of surgical procedures will also be viewed and discussed.

**3240 TARLETON TODAY ANATOMY & PHYSIOLOGY**  
**Prerequisite: Biology and Chemistry**

**Placement: 11 - 12**  
**Credits: 1**

This college course covers basic physiological principles and their applications in the study of the skeletal, muscular, and nervous systems are emphasized. Substantial microscopic observation required. Students have the opportunity to earn four credit hours (lecture and lab) for BIOL 2401, which will satisfy the core requirements for a lab science course in most four-year universities. Confirm transfer credit with the university of your choice before registering for this class. A grade of an A or B in this course may be used towards earning a Performance Acknowledgement. **College textbooks and tuition will be paid for by the AHS CTE department.**

**3234 MEDICAL MICROBIOLOGY**  
**Prerequisite: Biology and Chemistry**

**Placement: 11 - 12**  
**Credits: 1**

Medical Microbiology reviews the history and classification of all medical microbes, as well as, contemplates the future use of microbes in genetic transfer and engineering. Microbes of each area of the body are discussed in great detail, including how microbes reproduce, spread and are destroyed. Disease causing bacteria, parasites, and viruses are discussed and researched. There will be many labs and projects exploring growth and interesting details of microbes.

**3235 PATHOPHYSIOLOGY**  
**Prerequisite: Completion or current enrollment in Anatomy and Physiology**

**Placement: 11 - 12**  
**Credits: 1**

Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology. Students will view videos depicting surgical procedures and disease states and treatments.

**4005 TARLETON TODAY ADVANCED ANIMAL SCIENCE**  
**Prerequisite: Equine Science OR Small Animal OR Livestock Production**  
**Certification: Elanco Fundamentals of Animal Science**

**Placement: 11 - 12**  
**Credits: 1**

This course is a scientific study of animal agriculture involving beef cattle, dairy cattle, swine, sheep, goats, and horses. Topics covered will include general management practices, reproduction, nutrition, health, handling, genetic selection, shelter/housing and marketing strategies and procedures. Students will learn through field and laboratory experiences. This is a course in which students may earn four hours of college credit for ANSC 1319 & 1119. Confirm transfer credit with the university of your choice before registering for this class. A grade of an A or B in this course may be used towards earning a Performance Acknowledgement. **College fees for this course will be paid for by the AHS CTE department.**

**4805 FORENSIC SCIENCE**  
**Prerequisite: Biology and Chemistry**  
**Certification: Security Officer Level 2**

**Placement: 11 - 12**  
**Credits: 1**

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

**3219 LAB MANAGEMENT**  
**Prerequisite: Counselor approval AND CCMR point earned**

**Placement: 12**  
**Credits: Local credit**

Students will assist science teachers. Students must have earned a CCMR point to take this course. This is a local credit only and may not be used as a science credit nor towards graduation credits.

**It is the expectation of Azle High School that all students will be enrolled in a Math and Science course each year they are a high school student. This is to promote college and career readiness for student success beyond high school.**

## SOCIAL STUDIES

### Suggested Sequence of Courses

Grade Level	Recommended Course of Study	Recommended Honors/AP Course of Study
9 <sup>th</sup> Grade	World Geography	Honors World Geography
10 <sup>th</sup> Grade	World History	AP World History
11 <sup>th</sup> Grade	US History	AP US History or OnRamps US History
12 <sup>th</sup> Grade	US Government and Economics	AP US Government/Economics, AP European History or Dual Credit Government/Economics

### **3301 WORLD GEOGRAPHY**

**Prerequisite:** None

**Placement:** 9 – 12

**Credits:** 1

This course is designed to acquaint students with the geographical development of the earth and the physical forces that can alter it. Learning geographical terminology is essential in this course. Students will learn how to compare physical and cultural geography. The course is organized for students to explore the physical setting of the earth, the interaction of humans with their physical environments, and analyze patterns of urban growth in relationship to the geography of the area. Students will be expected to participate in the comprehension, reading, and writing of the eight Social Studies Strands: History, Geography, Economics, Governments, Citizenship, Culture, Science, Technology & Society, and Social Studies Skills

### **3311 HONORS WORLD GEOGRAPHY**

**Prerequisites:** None

**Placement:** 9 – 12

**Credits:** 1

The course is designed as an enhanced introductory study of the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. The course includes an in-depth look at the phenomena that shape civilizations and their modern developments as well as investigations into the critical global issues facing the world. This course is lecture and research driven.

### **3321 AP HUMAN GEOGRAPHY**

**Prerequisites:** None

**Placement:** 9 – 12

**Credits:** 1

AP Human Geography is an introductory college-level human geography course. Students cultivate their understanding of human geography through data and geographic analyses as they explore topics like patterns and spatial organization, human impacts and interactions with their environment, and spatial processes and societal changes. *Students are expected to take the AP Human Geography test*

### **3302 WORLD HISTORY**

**Prerequisite:** World Geography

**Placement:** 9 – 12

**Credits:** 1

This course is designed to equip students with the necessary skills to understand traditional historical points of reference in World History. Students will learn how to understand present events and how they relate to past events. This course includes an in-depth study of collecting, analyzing, and interpreting data and using the appropriate geographic skills and tools to do so. The course focuses on the historic origins of economic and political systems as well as the impact of religion on major historic events and peoples. Students will apply critical thinking skills to organize and use historical information. Students will be expected to participate in the comprehension, reading, and writing of the eight Social Studies Strands: History, Geography, Economics, Governments, Citizenship, Culture, Science, Technology & Society, and Social Studies Skills

### **3312 AP WORLD HISTORY**

**Prerequisites:** World Geography

**Placement:** 10 – 12

**Credits:** 1

This course focuses on developing students' understanding of world history from approximately 8000 B.C.E. to the present. The course provides five themes (interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures) that students explore throughout the course in order to make connections among historical developments in different times and places

encompassing the five major geographical regions of the globe: Africa, the Americas, Asia, Europe, and Oceania. This course attempts to provide a critical understanding of history, and that by confronting certain fundamental questions about history, students will acquire a set of facts, concepts, and theories, which enable them to better understand the world around them and their own existence. The course is lecture and research driven. Emphasis is placed on outside reading, essay development, and research. The course is designed to help students receive college credit for World History. *Students are expected to take the AP World History test.*

### **3303 UNITED STATES HISTORY**

**Prerequisite:** World History

**Placement:** 11 – 12

**Credits:** 1

This course is designed to equip students with the necessary skills to understand traditional historical points of reference in American History. This course follows the chronological history of America from Reconstruction: 1876 to the present. The course focuses on the emphasis placed on problems experienced by an expanding American nation, the strength of her people in war and peace, the development of the United States as a world leader, and the importance of individual rights in a climate of national freedom based on government-rule through constitutional law. Students will learn how to understand present events and how they relate to past events in American History. This course includes an in-depth study of collecting, analyzing, and interpreting data and using the appropriate historical skills and tools to do so. Students will apply critical thinking skills to organize and use historical information. Students will be expected to participate in the comprehension, reading, and writing of the eight Social Studies Strands: History, Geography, Economics, Governments, Citizenship, Culture, Science, Technology & Society, and Social Studies Skills.

### **3323 ONRAMPS US HISTORY**

**Prerequisites:** World History

**Placement:** 11-12

**Credits:** 1

OnRamps US History is a dual enrollment partnership through UT Austin. In these two sequential first-year college American history courses, students study significant themes in US history to uncover the range and depth of the American story. This course is composed of 6 Big Ideas: American Identities, Labor and Technology, America and the World, Reform and Renewal, and Self and Society. The first semester surveys from the colonial beginnings through the Civil War, and the second semester considers the post- Civil War era to the end of the 20th century. This course offering is a Texas Core Curriculum course in which students may earn six hours of college credit for HIST 1301 & 1302. A grade of an A or B in this course may be used towards earning a Performance Acknowledgement. **Students who take OnRamps courses are expected to pay the associated fees for the course by September 1, 2025.**

### **1330 GOVERNMENT**

**Prerequisite:** US History

**Placement:** 12

**Credits:** ½

This course is designed to equip students with the necessary skills to understand government and politics of the United States. This course is an in-depth study of the development, structure, and functions of the governmental systems of the United States. Students will also examine the interrelationships between federal, state, and local governments. The course focuses on the emphasis placed on voting and the election process, how a bill becomes a constitutional law, and on the rights and responsibilities of citizenship. At times, students may be provided opportunities to participate in civic affairs. This course includes an in-depth study of collecting, analyzing, and interpreting data and using the appropriate political skills and tools to do so. Students will apply critical thinking skills to organize and use political information. Students will be expected to participate in the comprehension, reading, and writing of the eight Social Studies Strands: History, Geography, Economics, Governments, Citizenship, Culture, Science, Technology & Society, and Social Studies Skills.

### **1336 ONRAMPS GOVERNMENT**

**Prerequisite:** US History

**Placement:** 12

**Credits:** ½

This course covers the origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights. This course offering is a Texas Core Curriculum course in which students may earn three hours of college credit for GOVT 2302. A grade of an A or B in this course may be used towards earning a Performance Acknowledgement. **Students who take dual enrollment courses are expected to pay the associated fees for the course.**



**1332 ECONOMICS**  
**Prerequisite: US History**

**Placement: 12**  
**Credits: ½**

This course is designed to equip students with the necessary skills to understand the economic system of the United States. This course is an in-depth study of the development, structure, and functions of the economic system as a whole of the United States. The course familiarizes students with the factors that have influenced the growth and development of the free-enterprise system. The course focuses on the emphasis placed on topics such as unemployment, inflation, international trade, GDP, the interaction of business and labor, and the effects of government spending and taxes. This course includes an in-depth study of collecting, analyzing, and interpreting data and using the appropriate economical skills and tools to do so. Students will apply critical thinking skills to organize and use economic information. Students will be expected to participate in the comprehension, reading, and writing of the eight Social Studies Strands: History, Geography, Economics, Governments, Citizenship, Culture, Science, Technology & Society, and Social Studies Skills.

**1323 ECONOMICS & PERSONAL FINANCIAL LITERACY**  
**Prerequisite: US History**

**Placement: 12**  
**Credits: ½**

The Economics and Personal Financial Literacy Course emphasizes the economic way of thinking, which serves as a framework for the personal financial decision-making opportunities introduced in the course. Students will demonstrate the ability to anticipate and address financial challenges as these challenges occur over their lifetime. In addition, students are introduced to common economic and personal financial planning terms and concepts. As a result of learning objective concepts and integrating subjective information, students gain the ability to lead productive and financially self-sufficient lives.

**1337 ONRAMPS ECONOMICS**  
**Prerequisite: US History**

**Placement: 12**  
**Credits: ½**

OnRamps Economics is a dual enrollment partnership through UT Austin. Economics introduces students to the principles, models, and conditions that influence how consumers, businesses, governments, and workers make and evaluate economic decisions. The course places emphasis on microeconomics concepts and quantitative reasoning as students employ logic, mathematics, and technology to interpret basic statistics and apply economic analysis. It also features macroeconomics topics and personal financial literacy content in addition to core concepts including scarcity and opportunity costs, supply and demand, market structures, competition, and behavioral economics. This course offering is a Texas Core Curriculum course in which students may earn three hours of college credit for ECON 1302. A grade of an A or B in this course may be used towards earning a Performance Acknowledgement. **Students who take OnRamps courses are expected to pay the associated fees for the course by September 1, 2025.**

**1334 PSYCHOLOGY**  
**Prerequisite: None**

**Placement: 11 – 12**  
**Credits: ½**

This course introduces students to the systematic and scientific study of human behavior and mental processes. While considering the psychologists and studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with such topics as the biological basis of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, treatment of abnormal behavior, and social psychology. Human growth, development, and behavior are studied in order to understand personality theories and disorders.

**1353 TARLETON TODAY PSYCHOLOGY**  
**Prerequisites: None**

**Placement: 11- 12**  
**Credits: ½**

This course is an overview of psychology, the scientific study of human behavior and mental processes and the variables that influence these processes. Topics covered in the course include motivation, emotions, intelligence, sensory processes, perception, learning, thinking, mental health, and psychotherapy. This course offering is a Texas Core Curriculum course in which students may earn three hours of college credit for PSYC 2301. Confirm transfer credit with the university of your choice before registering for this class. A grade of an A or B in this course may be used towards earning a Performance Acknowledgement. **Students who take dual enrollment courses are expected to pay the associated fees for the course.**

**1335 SOCIOLOGY****Prerequisite: None****Placement: 11 – 12****Credits: ½**

This course introduces students to the systematic and scientific study of social behavior or society, including its origins, development, organization, networks, and institutions. Cultural influences, ethnic and racial groups, gender differences and group dynamics are studied in order to understand socialization. While considering that sociologists aim to conduct research that may be applied directly to social policy and welfare, students explore how others focus primarily on refining the theoretical understanding of social processes. Subject matter ranges from the micro-level of individual agency and interaction to the macro level of systems and the social structure.

**1338 HISTORY OF WARFARE****Prerequisite: None****Placement: 10- 12****Credits: ½**

This course is a general study of theory, application, effect, and tools of human warfare throughout history. We will examine the origins and nature of warfare from primitive to modern times, including cyber warfare. We will survey the evolution of fortifications, armies, weapons, and logistics and how each of these are utilized in warfare.

**1339 HISTORY THROUGH FILM****Prerequisite: None****Placement: 10 – 12****Credits: ½**

This course will use film to approach significant problems in history. Students will be asked to rethink the relationships between "reality" and "representation" and re-conceptualize the boundaries between history and film. The course will be arranged around the IMPACT of the individual in history as we examine the presentations and portrayals of individuals.

**1342 HISTORY OF WORLD WAR TWO****Prerequisite: None****Placement: 10 - 12****Credits: ½**

The primary goal of this course is to increase students' knowledge and understanding of World War 2 and to analyze what meaning it has for us today. This course will analyze the meaning of isolationism, appeasement, fascism, communism, and militarism. Students will develop habits of critical thinking and a frame of reference which will help your live a more competent and interesting life in your local community and in the nation at large.

**1345 THE VIETNAM ERA****Prerequisite: None****Placement: 10 - 12****Credits: ½**

Students with an interest in the Vietnam War, Southeast Asia, or International Relations could enroll in a course that would provide more knowledge about the Cold War, the Vietnam Era, and our military interventions there. The course addresses domestic and international topics including history, politics, culture, economics, and social issues to arise during the Vietnam Era.

## LANGUAGES OTHER THAN ENGLISH

### **3401 SPANISH I** **Prerequisite: None**

**Placement: 9 – 12**  
**Credits: 1**

This course is designed to introduce students to the Spanish language. Students will develop skills in listening, speaking, reading, and writing Spanish and will explore various aspects of Hispanic culture, heritage, and peoples. Major emphasis is on conversational usage of Spanish as students interact with peers in Spanish.

### **3402 SPANISH II** **Prerequisite: Spanish I**

**Placement: 9 – 12**  
**Credits: 1**

This course further develops the skills introduced in Spanish I. Students will be involved in an in-depth study of the spoken language, listening, reading, writing, literature, and culture.

### **3405 HONORS SPANISH II** **Prerequisite: Spanish I**

**Placement: 9 - 12**  
**Credits: 1**

This course is designed to be a more advanced, faster-paced continuation of the study of the Spanish language through the development of speaking, listening and writing skills. Students are expected to be self-motivated, have a solid foundation of the language from Spanish I, and plan to take Honors Spanish III and attend college.

### **3403 HONORS SPANISH III** **Prerequisites: Spanish II**

**Placement: 10 - 12**  
**Credits: 1**

This course is an advanced faster-paced continuation of the study of the Spanish language, with special emphasis on reading, oral comprehension, speaking, grammar, writing, and cultural studies.

### **3404 & 3414 AP SPANISH IV & V** **Prerequisite: Spanish III**

**Placement: 11 - 12**  
**Credits: 1**

This course is an intensive study of Spanish culture, art and literature along with advanced grammar and composition. Students are expected to have a reasonable command of the Spanish language since much of the instruction is in Spanish.

### **3406 FRENCH I** **Prerequisite: None**

**Placement: 9 – 12**  
**Credits: 1**

In this course, students begin conversational French as they learn to interact with peers and adults in French. Students will develop skills in listening, speaking, reading and writing French. Students will also study cultural history, contemporary attitudes and geography of the Francophone world.

### **3407 FRENCH II** **Prerequisite: French I**

**Placement: 10 – 12**  
**Credits: 1**

This course continues the study of the language and culture with an emphasis on communicating in French. Students will be involved in an in-depth study of the spoken language, listening, reading, writing, literature, and culture.

### **3408 HONORS FRENCH III** **Prerequisite: French II**

**Placement: 10 – 12**  
**Credits: 1**

This course is an advanced faster-paced continuation of the study of the French language and culture, with special emphasis on reading, oral comprehension, speaking, grammar, writing and cultural studies and attitudes of the Francophone world. Students are expected to have a solid foundation of the language from French II.

### **3411, 3412 & 3413 ASL I, II & Honors III** **Prerequisite: None**

**Placement: 10 – 12**  
**Credits: 1**

In this course, the student will be introduced to the fundamental concepts of American Sign Language. The student will explore vocabulary, grammar, and conversational skills using basic signing and fingerspelling techniques, and will be exposed to activities and exercises that help him or her understand the culture of deaf and hard-of-hearing people. In ASL II & III, the student will expand their ASL vocabulary, grammar, and conversational skills.

# FINE ARTS

## ART

*No more than four fine arts credits may be earned in Art.*

### **3501 ART I**

**Prerequisite: None**

**Placement: 9 - 12**

**Credits: 1**

This course is an overall introduction to several types of material and processes. This includes but not limited to: drawing, ceramics, sculpture, painting, and design. Art I is the prerequisite for all further study in the visual art program.

### **3511 ART APPRECIATION**

**Prerequisite: None**

**Placement: 9 - 12**

**Credits: 1**

This survey course will introduce students to a variety of cultural perspectives including art of the Western World, non-Western art, art of the self-taught and contemporary artists. This course will fulfill the 1-year requirement for fine art with minimal art production.

### **3502 ART II – 2-DIMENSIONAL ART & DESIGN**

**Prerequisite: Art I**

**Placement: 10 - 12**

**Credits: 1**

Students will create artwork in, but not limited to, Painting, Drawing, Printmaking, and Graphic Design. All students will maintain a sketchbook and develop a personal Art Portfolio of their work during the year.

### **3522 ART II – 3-DIMENSIONAL ART & DESIGN**

**Prerequisite: Art I**

**Placement: 10 – 12**

**Credits: 1**

Students will create artwork in, but not limited to, Sculpture, Ceramics, Pottery, Jewelry and Fibers. All students will maintain a sketchbook and develop a personal Art Portfolio of their work during the year.

### **3503 ART III – 2-DIMENSIONAL ART & DESIGN**

**Prerequisite: Art II – 2D**

**Placement: 11 – 12**

**Credits: 1**

Same as Art II 2D with a higher level of art and design expectations.

### **3513 ART III – 3-DIMENSIONAL ART & DESIGN**

**Prerequisite: Art II – 3D**

**Placement: 11 - 12**

**Credits: 1**

Same as Art II 3D with a higher level of art and design expectations.

### **3504 ART IV – 2-DIMENSIONAL ART & DESIGN**

**Prerequisite: Art III – 2D**

**Placement: 11 – 12**

**Credits: 1**

Same as Art III 2D with a higher level of art and design expectations.

### **3514 ART IV – 3-DIMENSIONAL ART & DESIGN**

**Prerequisite: Art III – 3D**

**Placement: 11 – 12**

**Credits: 1**

Same as Art III 3D with a higher level of art and design expectations.

### **3505 AP STUDIO ART 2-DIMENSIONAL ART & DESIGN PORTFOLIO**

**Prerequisite: Art III – 2D**

**Placement: 11 - 12**

**Credits: 1**

This class is the exploration of two-dimensional shapes through a variety of media that emphasizes individual expression, deepening artistic practice and development of mastery in specific areas of art-making, including concept, composition, drawing and design. Students will develop a portfolio of their work to meet the requirements of the AP College Board.

**3506 AP STUDIO ART - 3-DIMENSIONAL ART & DESIGN PORTFOLIO****Prerequisite:** Art III – 3D**Placement:** 11 - 12**Credits:** 1

This course is the exploration of three-dimensional forms through a variety of media that emphasizes individual expression, deepening artistic practice and development of mastery in specific areas of art-making, including concept, composition, drawing and design. Students will develop a portfolio of their work to meet the requirements of the AP College Board.

**3512 AP ART HISTORY****Prerequisite:** None**Placement:** 11 - 12**Credits:** 1

The AP Art History course welcomes students into the global art world as active participants, engaging with its forms and content as they research, discuss, read and write about art, artists, art making, and responses to and interpretations of art. The study of art history invites students to discover the diversity in and connections among forms of artistic expression throughout history and from around the globe. Students will develop a portfolio of their work to meet the requirements of the AP College Board.

## MUSIC

*No more than four fine arts credits may be earned in Choral Music.*

### **CHORAL MUSIC**

Choral music offers students the opportunity to develop their vocal skills and musical understanding. Students will be placed into Varsity and Non-Varsity classes based on an audition in the spring.

#### Course Content:

1. Repertoire: Students will learn and perform a variety of choral music, encompassing traditional and contemporary styles.
2. Vocal Technique: Emphasis will be placed on developing proper vocal technique, breath control, and choral blending.
3. Music Theory: Students will gain a foundational understanding of music theory, including rhythm, melody, harmony, and form.
4. Music History and Culture: Exploration of the historical and cultural contexts of music.

#### Performance Expectations:

1. Active participation in all rehearsals and performances is required.
2. Students may have opportunities to participate in solo and ensemble, All-State, and other competitions.
3. Concert performances are a required part of the class.

<b>3611-3614</b>	<b>Beginning Treble</b>
<b>3641-3644</b>	<b>JV Treble</b>
<b>3601-3604</b>	<b>JV Mixed Chorale</b>
<b>3631-3634</b>	<b>Mixed Chorale</b>
<b>3605-3609</b>	<b>Men's Choir</b>

### **3661 AP MUSIC THEORY**

**Placement: 11 - 12**

**Credits: 1**

**Prerequisite:** Strong background in music theory and concurrent enrollment in band or choir. Students who do not meet grade level requirements must get approval from course instructor.

This course requires a background in music theory as well as a familiarity with reading music. This course prepares students for college-level music theory and is designed for students who are going to major or minor in some sort of music study in college. This course will provide skills necessary to thrive in music theory at the college level such as: learning about major or minor scales, modes, intervals, chord progressions, and part-writing. This course will also cover aural skills such as: melodic dictation, music history, aural identification of intervals and chords, and error detection. The culmination of the course will be a composition project for voices or instruments. Students enrolling in this class are expected to take the Advanced Placement Exam in May for possible college credit.

**AZLE HIGH SCHOOL BAND****Prerequisite:** Audition**Placement:** 9 – 12**Credits:** 1

All band classes combine to form the Marching Green Pride which rehearses outside of school hours. The MGP competes at UIL invitational contests, performs at pep rallies, football games, and at various civic events. Color guard, drum line and band auditions are held during the spring term of the preceding year. Opportunity for advancement in ensemble is on an as needed basis as determined by the director of bands.

Students will participate in both the marching band AND a concert band ensemble as assigned by the Director of Bands. Students enrolling in band should have been enrolled in band at their respective school in the previous year. Attendance is mandatory at all rehearsals and performances. Alteration of the marching band requirement is on a case by case basis and is at the discretion of the director of bands.

**In addition to the fine arts credit, two fall semesters of Marching Band satisfy the PE graduation requirement.**

<b>3651-3654</b>	<b>Wind Ensemble</b>
<b>3671-3674</b>	<b>Symphonic Band</b>
<b>3691-3694</b>	<b>Symphonic Winds</b>
<b>3681-3684</b>	<b>Percussion</b>
<b>3695-3698</b>	<b>JV Colorguard</b>
<b>3665-3668</b>	<b>Varsity Colorguard</b>

**3661 AP MUSIC THEORY****Placement:** 11 - 12**Credits:** 1

**Prerequisite:** Strong background in music theory and concurrent enrollment in band or choir. Students who do not meet grade level requirements must get approval from course instructor.

This course requires a background in music theory as well as a familiarity with reading music. This course prepares students for college-level music theory and is designed for students who are going to major or minor in some sort of music study in college. This course will provide skills necessary to thrive in music theory at the college level such as: learning about major or minor scales, modes, intervals, chord progressions, and part-writing. This course will also cover aural skills such as: melodic dictation, music history, aural identification of intervals and chords, and error detection. The culmination of the course will be a composition project for voices or instruments. Students enrolling in this class are expected to take the Advanced Placement Exam in May for possible college credit.

*No more than four fine arts credits may be earned in Band.*

## THEATRE ARTS

*No more than four fine arts credits may be earned in Theatre Arts*

**3701 THEATRE I**  
**Prerequisite: None**

**Placement: 9 – 12**  
**Credits: 1**

Students will develop voice and diction, practice stage movement, utilize improvisation, interpret scripts, analyze characters, understand dramatic structure, and evaluate theatrical experiences. They will explore stage design, stage make-up design and application, and costuming. They will also understand the evolution and history of the stage from the Greeks to the Elizabethans. Theatrical production performances are required.

**3702 THEATRE II**  
**Prerequisite: Theatre I**

**Placement: 10 – 12**  
**Credits: 1**

Students will further develop their acting skills, utilize advanced characterization, and explore classical and contemporary styles. They will study specialized theatrical styles such as mime, musical theatre, reader's theatre, radio, television and film. They will also develop directing and play writing techniques.

**3703-3704 THEATRE III & IV**  
**Prerequisite: Theatre II & III**

**Placement: 11 –12**  
**Credits: 1**

Students will develop acting skills, utilize advanced characterization and explore classical and contemporary styles. They will study specialized theatrical styles such as mime, musical theatre, reader's theatre, radio, television and film. They will also develop directing and play writing techniques which they will then use to direct a one-act play during the spring semester.

**3705-3708 TECHNICAL THEATRE I-IV**  
**Prerequisite: None**

**Placement: 9 – 12**  
**Credits: 1**

Students will learn the skills and techniques needed to stage a theatre production. This will include stage safety, scenery, properties, lighting, sound, costumes, make-up, and public relations. Students will attend live theatrical events and evaluate theatrical performances. Students will be required to work 10 hours in the technical theatre development toward each show produced throughout the year.





## Your Pathway to Success

### **CAREER AND TECHNICAL EDUCATION (CTE) PLANNING YOUR FUTURE: CAREER CLUSTERS**

The following sections are organized according to Career Cluster. Students interested in a particular career should consider taking courses in that Career Cluster.

Azle Independent School District does not discriminate on the basis of race, color, national origin, sex, disability, handicap or age in its vocational programs, services or activities and provides equal access to the Boy Scouts and other designated youth groups as required by Title VI of the Civil Rights act of 1964, as amended; Title IX of the Educational Amendments of 1972; the Age Discrimination Act of 1975, as amended and section 504 of the Rehabilitation Act of 1973, as amended. The beginning courses survey the occupational area for the student. An occupational skill and certification are the objectives of the more advanced CTE courses. Most instruction is hands-on with real-life applications.

## CTE COURSES BY PROGRAMS OF STUDY

Career Cluster	Program of Study	9	10	11	12
Agricultural Food & Natural Resources	<b>Animal Science</b>	Principles of Agriculture, Food Natural Resources	Equine Science Small Animal Management Entrepreneurship I	<i>Livestock Production</i>	<i>Advanced Animal Science</i> <i>Veterinary Medical</i> <i>Practicum in Ag ^</i> <i>Practicum in Entrepreneurship ^</i>
	<b>Agricultural Technology &amp; Mechanical</b>	Principles of Agriculture, Food Natural Resources	Ag Mechanics Ag Structures Design & Fabrication	<i>Ag Fab</i>	<i>Practicum in Ag ^</i>
	<b>Plant Science</b>	Principles of Agriculture, Food Natural Resources	Entrepreneurship I	<i>Floral Design 1</i>	<i>Advanced Floral</i> <i>Practicum in Ag ^</i> <i>Practicum in Entrepreneurship ^</i>
Architecture & Construction	<b>Carpentry</b>	Principles of Construction	Entrepreneurship I	<i>Mill &amp; Cabinetmaking ^</i>	<i>Practicum in Construction Tech ^</i> <i>Practicum in Entrepreneurship ^</i>
	<b>Industrial Refrigeration</b>	Principles of Construction	Entrepreneurship I	<i>Industrial Refrigeration I ^</i>	<i>Industrial Refrigeration II ^</i> <i>Practicum in Construction Tech ^</i> <i>Practicum in Entrepreneurship ^</i>
Arts, Audio/Video Technology & Communication	<b>Digital Communications</b>	Principles of Arts & AV Professional Communications	Audio Visual Production I Entrepreneurship I	<i>Digital Design &amp; Media Production (Yearbook)</i>	<i>Audio Visual Production II ^</i> <i>Practicum in A/V ^</i> <i>Practicum in Entrepreneurship ^</i>
	<b>Graphic Design &amp; Interactive Media</b>	Principles of Arts & A/V Video Game Design Digital Media	Graphic Design I Animation I Commercial Photography I Fashion Design I Video Game Programming Entrepreneurship I	<i>Digital Design &amp; Media Production (Yearbook)</i> <i>Graphic Design II</i> <i>Fashion Design II</i> <i>Animation II</i> <i>OnRamps Art &amp; Entertainment</i>	<i>Practicum in Graphic Design ^</i> <i>Practicum in Fashion Design ^</i> <i>Practicum in Entrepreneurship ^</i>
	<b>Printing &amp; Imaging</b>	Principles of Arts & AV	Graphic Design I Printing & Imaging Technology I (Journalism) Entrepreneurship I	<i>Printing &amp; Imaging Technology II (Newspaper)</i>	<i>Practicum in Printing &amp; Imaging ^</i> <i>Practicum in Entrepreneurship ^</i>

Career Cluster	Program of Study	9	10	11	12
Business, Marketing, & Finance	<b>Accounting &amp; Financial Services</b>	Principles of Business, Marketing, & Finance Business Information Management I	Accounting I Entrepreneurship I	<i>Accounting II</i>  <i>Financial Math</i> <i>Tarleton Today Accounting I</i> <i>Business Management</i>	<i>Practicum in Business ^</i>  <i>Practicum in Entrepreneurship ^</i> <i>Dual Credit Accounting II</i>
	<b>Business Management</b>	Principles of Business, Marketing, & Finance Business Information Management I	Business Information Management II Entrepreneurship I	<i>Business Management</i> <i>OnRamps Dual Enrollment Statistics</i>	<i>Practicum in Business Management ^</i> <i>Practicum in Entrepreneurship ^</i>
	<b>Entrepreneurship</b>	Principles of Business, Marketing, & Finance Business Information Management I	Entrepreneurship I	<i>Entrepreneurship II</i> <i>OnRamps Dual Enrollment Statistics</i>	<i>Practicum in Business Management ^</i> <i>Practicum in Entrepreneurship ^</i>
	<b>Marketing &amp; Sales</b>	Principles of Business, Marketing, & Finance Digital Media	Sports & Entertainment Marketing Digital Design & Media (Yearbook) Entrepreneurship I	<i>Social Media Marketing</i> <i>OnRamps Dual Enrollment Statistics</i>	<i>Fundamentals in Real Estate ^</i> <i>Practicum in Entrepreneurship ^</i>
	<b>Real Estate</b>	Principles of Business, Marketing, & Finance Professional Communications	Entrepreneurship I	<i>Tarleton Today Accounting I</i> <i>Financial Math</i>	<i>Fundamentals in Real Estate ^</i> <i>Practicum in Business Management ^</i> <i>Practicum in Entrepreneurship ^</i>
Education & Training	<b>Early Learning</b>	Principles of Education & Training Principles of Human Services	Child Development	<i>Child Guidance</i>	<i>Practicum in Early Learning ^</i>
	<b>Teaching &amp; Training</b>	Principles of Education & Training Principles of Human Services	Human Growth & Development Child Development	<i>Tarleton Today: Instructional Practices</i>	<i>Tarleton Today: Practicum in Education ^</i>
Health Science	<b>Diagnostic &amp; Therapeutic Services</b>	Principles of Health Science	Medical Terminology	<i>Health Science Theory/Clinical ^</i> <i>Anatomy &amp; Physiology</i>  <i>Dual Credit Anatomy &amp; Physiology</i> <i>Medical Microbiology</i>	<i>EMT ^</i> <i>Pathophysiology</i>  <i>Practicum in Health Science ^</i> <i>Pharmacology</i>
	<b>Nursing Science</b>	Principles of Health Science	Medical Terminology	<i>Health Science Theory/Clinical</i> <i>Anatomy &amp; Physiology</i> <i>Medical Microbiology</i>	<i>Pathophysiology</i> <i>Practicum in Health Science ^</i> <i>Pharmacology</i>

## CTE COURSES BY PROGRAMS OF STUDY

Career Cluster	Program of Study	9	10	11	12
Hospitality & Tourism	<b>Culinary Arts</b>	Intro to Culinary	Culinary Arts ^ Entrepreneurship I	Advanced Culinary Arts ^	Practicum in Culinary Arts ^ Practicum in Entrepreneurship ^
Human Services	<b>Family &amp; Community Services</b>	Principles of Human Services Principles of Community Services Professional Communications Dollars & Sense	Human Growth & Development Child Development Lifetime Nutrition & Wellness Interpersonal Studies Entrepreneurship I	Family & Community Services Counseling & Mental Health Social & Community Services	Practicum in Human Services ^ Practicum in Entrepreneurship ^
	<b>Health &amp; Wellness</b>	Principles of Human Services Principles of Community Services Professional Communications Dollars & Sense	Human Growth & Development Child Development Lifetime Nutrition & Wellness Interpersonal Studies Entrepreneurship I	Family & Community Services Counseling & Mental Health	Practicum in Human Services ^ Practicum in Entrepreneurship ^
Information Technology	<b>Cybersecurity</b>	Principles of IT + Fundamentals of Computer Science Foundations of Cybersecurity	Computer Science I AP Cybersecurity	OnRamps Quantum Computing Cybersecurity Capstone	Practicum in IT ^ Practicum in STEM ^
	<b>Information Technology Support &amp; Service</b>	Principles of IT + Fundamentals of Computer Science +	Entrepreneurship I	Independent Study in Evolving/Emerging Technology	Practicum in IT ^ Practicum in Entrepreneurship ^
	<b>Networking</b>	Principles of IT + Fundamentals of Computer Science + Computer Science I	Entrepreneurship I	Independent Study in Evolving/Emerging Technology	Practicum in IT ^ Practicum in Entrepreneurship ^
	<b>Programming &amp; Software Development</b>	Principles of IT + Fundamentals of Computer Science + Computer Science I	Entrepreneurship I Computer Science II	OnRamps Quantum Computing OnRamps Computer Science	Independent Study in Evolving/Emerging Technology Practicum AV ^ Practicum in STEM ^ Practicum in IT ^ Practicum in Entrepreneurship ^
	<b>Web Development</b>	Principles of IT + Fundamentals of Computer Science + Digital Media Computer Science I	Entrepreneurship I	Web Design	Practicum in IT ^ Practicum in Entrepreneurship ^ Independent Study in Evolving/Emerging Technology

Career Cluster	Program of Study	9	10	11	12
Law & Public Service	<b>Law Enforcement</b>	Principles of Law	Law I Counseling & Mental Health	Correctional Services Criminal Investigations Law II Forensic Science	Practicum in Law ^
	<b>Fire Science</b>	Principles of Law	Counseling & Mental Health	Anatomy & Physiology	EMT ^ Practicum in Law ^
Manufacturing	<b>Robotics &amp; Automation Technology</b>	Principles of Manufacturing + Principles of Applied Engineering + Robotics I	Robotics II		Practicum in Manufacturing ^
	<b>Welding</b>	Principles of Manufacturing + Entrepreneurship I	Intro to Welding	Welding I ^	Welding II ^ Practicum in Manufacturing ^ Practicum in Entrepreneurship ^
Engineering	<b>Engineering Foundations</b>	Principles of Applied Engineering + Intro to Engineering Design (PLTW) Robotics I	Digital Electronics Robotics II	Engineering Design & Problem Solving Engineering Design & Presentation	Practicum in STEM ^
	<b>Drones Unmanned Flight</b>	Robotics I	Digital Electronics Robotics II	Intro to Unmanned Aerial Vehicle (Drone)	Practicum in Manufacturing ^
Transportation Distribution & Logistics	<b>Automotive &amp; Collision Repair</b>	Automotive Basics Entrepreneurship I	Automotive Technology I ^	Automotive Technology II ^	Practicum in Transportation ^ Practicum in Entrepreneurship ^

+ Jr. High only course

^ Double Blocked course

indicates advanced course



Agriculture,  
Food &  
Natural  
Resources

## AGRICULTURAL FOOD AND NATURAL RESOURCES CAREER CLUSTER

The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fuel, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

By rule of the State Board of Education, all courses require a Supervised Agricultural Experience Program (project). These Supervised Agricultural Experiences (SAE) must relate directly to the course in which a student is enrolled. The program will continue to be as flexible as possible, while providing the maximum learning experience to each student. Questions related to SAE projects should be directed to the Agriscience teachers.

**All Agriculture courses require 35 hours of outside-of-class project activity to pass the course.**

Students enrolled in any Agriscience courses are provided membership in the FFA, the nation's largest youth leadership organization. FFA is an integral part of the curriculum of the Agriculture Food and Natural Resources Career Cluster.

### **4001 PRINCIPLES OF AGRICULTURE, FOOD & NATURAL RESOURCES**

**Prerequisite: None**

**Placement: 9 - 11**

**Credits: 1**

Principles of Agriculture is a course designed to introduce students to the Agriculture, Food, and Natural Resource Cluster. It is a survey course that is intended for first year agriculture students. Students will learn about the FFA organization, leadership skills and employability characteristics, history of agriculture, basic animal science, and basic plant science. Students will have the opportunity to achieve a Quality Counts Certification.

### **1400 EQUINE SCIENCE**

**Prerequisite: Principles of Agriculture**

**Placement: 10 – 12**

**Credits: ½**

Equine Science is a comprehensive course exploring the horse industry. Students will learn care and management of the horse including a detailed look at anatomy, nutrition, reproduction, handling skills, and health care. Students will also be introduced to judging practices for both western and English riding disciplines.

### **1405 SMALL ANIMAL MANAGEMENT**

**Prerequisite: Principles of Agriculture**

**Placement: 10 - 12**

**Credits: ½**

To be prepared for careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Suggested small animals which may be included in the course of study include small mammals, amphibians, reptiles, avian, dogs, and cats.

### **4007 LIVESTOCK AND POULTRY PRODUCTION**

**Prerequisite: Equine Science AND Small Animal Management**

**Placement: 11 - 12**

**Credits: 1**

Livestock Production prepares students for a career in animal science. Students will learn care and management of many animal species, including beef cattle, dairy cattle, swine, sheep, goats, and poultry.

### **4004 VETERINARY MEDICAL APPLICATIONS**

**Prerequisite: Equine Science OR Small Animal OR Livestock Production**

**Certification: Elanco Veterinary Medical Applications**

**Placement: 11 - 12**

**Credits: 1**

Veterinary Medical Applications prepares students for a career in animal science including veterinarians and veterinarian assistants. Students will acquire the technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Topics covered in this course relate to both large and small animal species, livestock and companion animals.

**4005 TARLETON TODAY ADVANCED ANIMAL SCIENCE****Prerequisite:** Equine Science OR Small Animal OR Livestock Production**Certification:** Elanco Fundamentals of Animal Science**Placement:** 11 - 12**Credits:** 1

This course is a scientific study of animal agriculture involving beef cattle, dairy cattle, swine, sheep, goats, and horses. Topics covered will include general management practices, reproduction, nutrition, health, handling, genetic selection, shelter/housing and marketing strategies and procedures. Students will learn through field and laboratory experiences. This is a course in which students may earn four hours of college credit for ANSC 1319 & 1119. Confirm transfer credit with the university of your choice before registering for this class. A grade of an A or B in this course may be used towards earning a Performance Acknowledgement. **College fees for this course will be paid for by the AHS CTE department.**

**4002 AGRICULTURAL MECHANICS & METAL TECHNOLOGIES****Prerequisite:** Principles of Agriculture**Certification:** AWS Welding**Placement:** 10 - 12**Credits:** 1

This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. Successful completion of this course satisfies the AHS graduation requirement for a technology credit.

**4003 AGRICULTURAL STRUCTURES DESIGN & FABRICATION****Prerequisite:** Agricultural Mechanics & Metal Technologies**Certification:** AWS Welding**Placement:** 11 - 12**Credits:** 1

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

**4006 FLORAL DESIGN****Prerequisite:** Principles of Agriculture**Certification:** TSFA Knowledge Based**Placement:** 10 - 12**Credits:** 1

To be prepared for a career in floral design, students will explore the techniques of floral arranging. Students will learn to identify plant material used in floral design, use of design principles, historical and traditional arrangements, as well as understanding the management of a floral enterprise. This course is a hands-on class where students will demonstrate the principles of floral design. Students may obtain a fine art credit for this course. Students will have the opportunity to take a Floral Design Certification Exam.

**4009 ADVANCED FLORAL DESIGN****Prerequisite:** Floral Design**Certification:** TSFA Level I and Level II**Placement:** 11 - 12**Credits:** 1

In this course, students build on the knowledge from the Floral Design course and are introduced to more advanced floral design concepts, with an emphasis on specialty designs and specific occasion planning. This course focuses on building skills in advanced floral design and providing students with a thorough understanding of the design elements and planning techniques used to produce unique specialty floral designs. Students explore the design needs and expectations of clients and propose appropriate creations.

**4010 PRACTICUM IN AGRICULTURE****Prerequisite: Three or more credits in the Ag Career Cluster****Placement: 11 - 12****Credits: 2**

Practicum in Agriculture 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. This 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. This is a two-period course and students may continue in this Practicum course for an additional year under course number 4012.

**4205 ENTREPRENEURSHIP I****Prerequisite: Principles of Business, Marketing and Finance****Certification: Entrepreneurship and Small Business****Placement: 9 - 12****Credits: 1**

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

**4225 PRACTICUM IN ENTREPRENEURSHIP****Prerequisite: Three or more credits in this Career Cluster****Placement: 11 - 12****Credits: 2**

The Practicum in Entrepreneurship provides students the opportunity to apply classroom learnings and experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and build on and apply the knowledge and skills gained from courses taken in an array of career areas. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of the student's need for work-based learning experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. It is recommended that students are paired with local business owners or employers in their specific industry program of study.



## ARCHITECTURE AND CONSTRUCTION CAREER CLUSTER

Careers in designing, planning, managing, building and maintaining the built environment.

### **4103 PRINCIPLES OF CONSTRUCTION**

**Prerequisite: None**

**Placement: 9 - 12**

**Credits: 1**

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

### **4104 MILL AND CABINETMAKING TECHNOLOGY**

**Prerequisite: Principles of Construction**

**Placement: 10 - 12**

**Credits: 2**

In Mill and Cabinetmaking Technology, students gain knowledge and skills specific to those needed to enter the work force in the area of mill work and cabinet manufacturing and installation. The student may also apply these skills to professions in carpentry or building maintenance supervision or use the skills as a foundation for a postsecondary degree in construction management, architecture, or engineering. Students acquire knowledge and skills in cabinet design, tool usage, jointing methods, finishes, and numerical and computer control production methods. Students will be expected to complete projects by following a work order, blue prints, and to set-up and operate machinery with minimal supervision. Students will build a variety of projects that require the advance use of traditional shop equipment, modern CNC wood routers, plasma cutters and 3D printers. This course is a two-period course and students can earn a Level 1 ShopBot CNC Certification. Successful completion of this course satisfies the AHS graduation requirement for a technology credit.

### **4110 PRACTICUM IN CONSTRUCTION TECHNOLOGY (CRANE PROGRAM)**

**Prerequisite: Three or more credits in the Construction Career Cluster**

**Placement: 11 - 12**

**Credits: 2**

Practicum in Construction Management 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. Practicum in Construction Management 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. This is a two-period course and students may continue in this Practicum course for an additional year under course number **4111**.

### **4205 ENTREPRENEURSHIP I**

**Prerequisite: Principles of Business, Marketing and Finance**  
**Certification: Entrepreneurship and Small Business**

**Placement: 9 - 12**

**Credits: 1**

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.



**4225 PRACTICUM IN ENTREPRENEURSHIP****Prerequisite: Three or more credits in this Career Cluster****Placement: 11 - 12****Credits: 2**

The Practicum in Entrepreneurship provides students the opportunity to apply classroom learnings and experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and build on and apply the knowledge and skills gained from courses taken in an array of career areas. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of the student's need for work-based learning experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. It is recommended that students are paired with local business owners or employers in their specific industry program of study.

**4108 INDUSTRIAL REFRIGERATION I****Prerequisite: Principles of Construction****Placement: 11 - 12****Credits: 1**

Industrial Refrigeration is a new innovative opportunity for AHS students. Students will gain knowledge and skills specific to those needed to enter the industry as technicians in the large industrial refrigeration Cold Storages, Food Processing Plants, Refrigeration Equipment Maintenance, or prepare for a postsecondary degree. Students acquire knowledge and skills in the natural refrigerant refrigeration system safety, principles of thermodynamics theory, refrigeration equipment, codes, operation of control valves, piping and insulation installation. Students will have the opportunity to earn paid workforce CARO certifications and internships. Successful completion of this course satisfies the AHS graduation requirement for a technology credit.

**4109 INDUSTRIAL REFRIGERATION II****Prerequisite: Industrial Refrigeration I AND CARO certification****Placement: 12****Credits: 2**

Industrial Refrigeration II students will apply skills obtained in year 1 while pursuing a course of study to obtain an industry CARO certification by working on a real-world, hands-on refrigeration project. This is a two-period course.





## ARTS, AUDIO / VIDEO TECHNOLOGY, & COMMUNICATION CAREER CLUSTER

Careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.

### **4150 PRINCIPLES OF ARTS, AUDIO/VISUAL TECHNOLOGY & COMMUNICATION**

**Prerequisite:** None

**Placement:** 9 - 10  
**Credits:** 1

Careers in the Arts, Audio/Video Technology, and Communications Career Cluster require, in addition to creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

### **3017 COMMERCIAL PHOTOGRAPHY**

**Prerequisite:** Principles of Arts, A/V Technology & Communication

**Placement:** 9 – 12  
**Credits:** 1

Careers in commercial photography require skills that span all aspects of the industry from setting up a shot to delivering products in a competitive market. Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs.

### **3020, 3021, 3022 DIGITAL MEDIA PRODUCTION I, II & III\* (YEARBOOK)**

**Prerequisite:** Commercial Photography or Journalism

**Certification:** Adobe Photoshop

**Placement:** 10 – 12  
**Credits:** 1

Students will participate in production of the school yearbook using industry-standard publishing technology. Activities will include developing an advertising and circulation campaign, writing articles and headlines, proofreading and editing copy, taking and selecting photos, and designing graphic elements and pages. Because yearbook is a production class, candidates for yearbook staff should be self-motivated and capable of meeting strict deadlines. Students will be expected to complete a minimum of **four hours** of work either before or after school. Successful completion of this course satisfies the AHS graduation requirement for a technology credit.

### **3016 JOURNALISM**

**Prerequisite:** None

**Placement:** 9 – 12  
**Credits:** 1

Students will learn how to gather, write, and deliver information to a specified audience. Instruction and activities will provide practical experience in interviewing; news, feature, sports, and editorial writing; newspaper/yearbook design and layout; and photography. Writing activities will emphasize ethics, proper grammar, style, and mechanics. Students will examine the history of mass media in the United States, the functions and responsibilities of the media, and the elements of news.

### **3026 & 3027 PRINTING AND IMAGING TECHNOLOGY I & II (NEWSPAPER)**

**Prerequisite:** Journalism OR Graphic Design I

**Certification:** Adobe Photoshop and In-Design

**Placement:** 10 – 12  
**Credits:** 1

Students will participate in production of the school newspaper using industry-standard publishing technology. Activities will include developing an advertising and circulation campaign, writing articles and headlines, proofreading and editing copy, taking and selecting photos, and designing graphic elements and pages. Because newspaper is a production class, candidates for newspaper staff should be self-motivated and capable of meeting strict deadlines. Students will be expected to complete a minimum of **four hours** of work either before or after school. Successful completion of this course satisfies the AHS graduation requirement for a technology credit.

**3028 PRACTICUM OF PRINTING AND IMAGING TECHNOLOGY****Prerequisite:** Printing and Imaging Technology II**Certification:** Adobe Photoshop and In-Design**Placement:** 11 – 12**Credits:** 2

Students will continue to participate in the production of the school newspaper using industry-standard publishing technology. Activities will include developing an advertising and circulation campaign, writing articles and headlines, proofreading and editing copy, taking and selecting photos, and designing graphic elements and pages.

**4151 AUDIO / VIDEO PRODUCTION I****Prerequisite:** None**Certification:** Adobe Premier Pro**Placement:** 9 - 12**Credits:** 1

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video activities. Students will have the opportunity to take an Adobe certification. Successful completion of this course satisfies the AHS graduation requirement for a technology credit.

**4152 AUDIO / VIDEO PRODUCTION II****Prerequisite:** Audio/Video Production I**Certification:** Adobe Premier Pro**Placement:** 10 - 12**Credits:** 2

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production activities. This course may be implemented in an advanced audio format or an advanced format, including both audio and video. This course is a two-period course.

**4158 ONRAMPS ARTS & ENTERTAINMENT TECHNOLOGIES****Prerequisite:** Graphic Design and Illustration I**Placement:** 11 - 12**Credits:** 1

What goes on behind the scenes at a Taylor Swift concert? How did Minecraft alter the future of gaming? When did a computer become so important to theatre? This course presents a broad overview of digital media technologies, software, and applications along with the fundamental concepts of digital representations of images and signals. Students study an assortment of entertainment concepts and experiences, discover the underlying technology involved, and learn how this technology is delivered to the participant. Students also consider the cultural, philosophical, ethical, and practical aspects of entertainment technology. This course offering is course in which students may earn three hours of college credit for UT AET304. A grade of an A or B in this course may be used towards earning a Performance Acknowledgement. **OnRamps fees for this course will be paid for by the AHS CTE department.** Successful completion of this course satisfies the AHS graduation requirement for a FINE ARTS credit.

**4156 PRACTICUM IN AUDIO / VIDEO PRODUCTION****Prerequisite:** Audio/Video Production II**Certification:** Adobe Premier Pro**Placement:** 11 - 12**Credits:** 2

Building upon the concepts taught in Audio/Video Production II and its co-requisite 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.

**4153 GRAPHIC DESIGN AND ILLUSTRATION I****Prerequisite: Principles of Arts, A/V Technology & Communication****Certification: Adobe Photoshop, Illustrator and In-Design****Placement: 9 - 12****Credits: 1**

Careers in graphic design and illustration span all aspects of the advertising and the visual communications industries. Within this context, in addition to developing knowledge and skills needed for success in the Arts & Audio/Video Technology, of the Communications Career Cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design. Students will have the opportunity to obtain certifications with the Adobe CC suite. Successful completion of this course satisfies the AHS graduation requirement for a technology credit.

**4154 GRAPHIC DESIGN AND ILLUSTRATION II****Prerequisite: Graphic Design and Illustration I****Certification: Adobe Photoshop, Illustrator and In-Design****Placement: 10 - 12****Credits: 1**

Graphic Design & Illustration II will propel students deeper into tomorrow's industry-standards. They will have access to software such as Adobe Illustrator, Adobe Photoshop, Adobe InDesign, Toon Boom and many more. Each student will have use of Wacom Intuos graphics tablets to create digital artworks to create portfolios, websites, and advertisements to document creative and technical skills. Portfolio sites can then be used for college and/or job applications. Students will be learning to take their digital and traditional art skills into a new digital level! Students will have the opportunity to obtain certifications within the Adobe CC suite.

**4157 PRACTICUM IN GRAPHIC DESIGN AND ILLUSTRATION****Prerequisite: Graphic Design and Illustration II****Placement: 11 - 12****Credits: 2**

Building upon the concepts taught in Graphic Design II, students will be expected to develop an increasing understanding of the industry with a focus on creating digital artwork in a variety of software including the Adobe Creative Suite Apps. Students will take a deeper look into careers in Graphic Design and how to design professional projects for real clients in the community. Students will continue to create digital projects to add to their artwork portfolio, work towards earning additional Adobe certifications, and participate in the Future Business Leaders Association competitions.

**4155 ANIMATION I****Prerequisite: Graphic Design and Illustration I****Certification: Adobe Photoshop, Illustrator and In-Design****Placement: 10 - 12****Credits: 1**

Careers in Animation span all aspects of film, advertising, communication industries and visual stage performances. Within these contexts, and in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design. Students will have the opportunity to obtain certifications with the Adobe CC suite.

**4704 VIDEO GAME DESIGN****Prerequisite: Principles of Arts & A/V****Certification: Certified User: Programmer (Unity)****Placement: 9 –12****Credits: 1**

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. Successful completion of this course satisfies the AHS graduation requirement for a technology credit.

**4705 VIDEO GAME PROGRAMMING****Prerequisite: Video Game Design****Placement: 10 –12****Credits: 1**

Game Programming expands on the foundation created in Video Game Design through programming languages such as: C# programming, XNA game studio, Java, and Android App. In this course, students will

investigate the inner workings of a fully functional role-playing game (RPG) by customizing playable characters, items, maps, and chests and eventually applying customizations by altering and enhancing the core game code.

#### **4605 FASHION DESIGN I**

**Prerequisite:** Principles of Human Services OR Principles of Arts & A/V

**Placement:** 9 - 12

**Credits:** 1

Students will develop an understanding of fashion, textile and apparel industries. Identifying characteristics of quality apparel construction as a basis for consumer decision making is included. Students will create apparel products using principles of effective design: body types, clothing silhouettes, and fabric selection. Using basic design tools and techniques, students will incorporate fashion drawing, draping and flat pattern methods for fitting, designing and constructing garments. The class will touch on various areas of the fashion industry including publishing, advertising, marketing, and entrepreneurship.

#### **4606 FASHION DESIGN II**

**Prerequisite:** Fashion Design I

**Placement:** 10 - 12

**Credits:** 1

Students will develop an advanced technical understanding of fashion with emphasis on design and production by building upon draping, and pattern making skills learned in Fashion Design I class but at a higher level of difficulty. Students will also develop both a physical and digital portfolio of all fashion drawings and projects. The student will work with Adobe Illustrator to make technical drawings as well as physical fashion illustration for their portfolio. Students may have the opportunity to make and build displays for their fashion projects for showcase as well as helping plan and participate in various aspects of a fashion show. Students will analyze international design influences and trends across the world, as well as the planning and production of a garment. The students will research careers in fashion in all aspects of the textile and apparel industry. The class will also include publishing, advertising, marketing & entrepreneurship.

#### **4205 ENTREPRENEURSHIP I**

**Prerequisite:** Principles of Business, Marketing and Finance

**Certification:** Entrepreneurship and Small Business

**Placement:** 9 - 12

**Credits:** 1

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

#### **4225 PRACTICUM IN ENTREPRENEURSHIP**

**Prerequisite:** Three or more credits in this Career Cluster

**Placement:** 11 - 12

**Credits:** 2

The Practicum in Entrepreneurship provides students the opportunity to apply classroom learnings and experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and build on and apply the knowledge and skills gained from courses taken in an array of career areas. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of the student's need for work-based learning experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. It is recommended that students are paired with local business owners or employers in their specific industry program of study.

#### **1300 PROFESSIONAL COMMUNICATIONS** (Speech requirement)

**Prerequisite:** None

**Placement:** 9 - 12

**Credits:** ½

This course focuses on the process of communication for both public and interpersonal communication. The opportunity will be given to become more aware of the self as a communicator and of the interaction in communication. Students will be able to deliver different types of speeches and will become more self-confident.



Business  
Management &  
Administration

Finance

## BUSINESS, MARKETING AND FINANCE CAREER CLUSTERS

Business Management and Administration careers encompass planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Finance careers include financial planning, services for financial and investment planning, banking, insurance, and business financial management.

### **4200 PRINCIPLES OF BUSINESS, MARKETING & FINANCE**

**Prerequisite: None**

**Placement: 9 - 10**

**Credit: 1**

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

### **4201 BUSINESS INFORMATION MANAGEMENT I**

**Prerequisite: None**

**Placement: 9 - 12**

**Credits: 1**

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. Students will have the opportunity to take the Microsoft Office Specialist Certification Exam. Successful completion of this course satisfies the AHS graduation requirement for a technology credit.

### **4202 BUSINESS INFORMATION MANAGEMENT II**

**Prerequisite: Business Information Management I**

**Certification: MOS Expert Excel & Word**

**Placement: 10 - 12**

**Credits: 1**

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software. Students will have the opportunity to take the Microsoft Office Expert Certification Exam.

### **4203 ACCOUNTING I**

**Prerequisite: Principles of Business**

**Certification: Volunteer Income Tax Assistance/Tax Counseling Certification: Basic**

**Placement: 9 - 12**

**Credits: 1**

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

### **4204 TARLETON TODAY ACCOUNTING I**

**Prerequisite: Accounting I**

**Certification: Volunteer Income Tax Assistance/Tax Counseling Certification: Basic**

**Placement: 10 - 12**

**Credits: 1**

This course, ACCT 2301, is an introduction to the fundamental concepts of financial accounting as prescribed by U.S. generally accepted accounting principles (GAAP) as applied to transactions and events that affect business organizations. Students will examine the procedures and systems to accumulate, analyze, measure,

and record financial transactions. Students will use recorded financial information to prepare a balance sheet, income statement, statement of cash flows, and statement of shareholders' equity to communicate the business entity's results of operations and financial position to users of financial information who are external to the company. Students will study the nature of assets, liabilities, and owners' equity while learning to use reported financial information for purposes of making decisions about the company. Students will be exposed to International Financial Reporting Standards (IFRS). **College fees for this course will be paid for by the AHS CTE department.**

#### **4206 DUAL CREDIT ACCOUNTING II**

**Prerequisite: College Acceptance and Accounting I**

**Placement: 12**

**Credits: 1**

This course, ACCT 2301 & 2302, is a dual credit course with Weatherford College and will be useful to any students interested in pursuing a Bachelor of Business Administration degree. This course introduces students to the fundamental concepts of financial accounting as prescribed by U.S. generally accepted accounting principles (GAAP) as applied to transactions and events that affect business organizations. Students will examine the procedures and systems to accumulate, analyze, measure, and record financial transactions. Students will use recorded financial information to prepare financial statements to communicate the business entity's results of operations and financial position to users of financial information who are external to the company. Students will study the nature of assets, liabilities, and owners' equity while learning to use reported financial information for purposes of making decisions about the company. Students will be exposed to International Financial Reporting Standards (IFRS). **College fees for this course will be paid for by the AHS CTE department.**

#### **4205 ENTREPRENEURSHIP I**

**Prerequisite: Principles of Business, Marketing and Finance**

**Certification: Entrepreneurship and Small Business**

**Placement: 9 - 12**

**Credits: 1**

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

#### **4215 ENTREPRENEURSHIP II**

**Prerequisite: Entrepreneurship I**

**Placement: 10 - 12**

**Credits: 1**

In Entrepreneurship II, students will gain the knowledge and skills needed to become an entrepreneur. Students will practice the principles necessary to begin, launch, and operate a business. The primary focus of the course is to help students learn and initiate the process of taking a business plan from idea to implementation.

#### **4225 PRACTICUM IN ENTREPRENEURSHIP**

**Prerequisite: Three or more credits in this Career Cluster**

**Placement: 11 - 12**

**Credits: 2**

The Practicum in Entrepreneurship provides students the opportunity to apply classroom learnings and experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and build on and apply the knowledge and skills gained from courses taken in an array of career areas. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of the student's need for work-based learning experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. It is recommended that students are paired with local business owners or employers in their specific industry program of study.

**4207 BUSINESS MANAGEMENT**

**Prerequisite:** Principles of Business, Marketing and Finance AND BIM  
**Certification:** Entrepreneurship and Small Business

**Placement: 10 - 12****Credits: 1**

Students will analyze the primary functions of management and leadership, which are planning, organizing, staffing, directing or leading, and controlling. The social responsibilities of business and industry will be discussed. Students will also develop a foundation in the aspects of business that are required to become competent managers, employees, and entrepreneurs. Students will incorporate a broad base of knowledge about many aspects of the business world to make appropriate business decisions.

**4208 PRACTICUM IN BUSINESS MANAGEMENT**

**Prerequisite:** Three of more credits in the Business Career Cluster

**Placement: 11 - 12****Credits: 2**

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

**3103 FINANCIAL MATHEMATICS**

**Prerequisite:** Algebra I and Geometry

**Placement: 11 - 12****Credits: 1**

This class will weave mathematical knowledge and skills together to ensure students will be successful in problem solving and use mathematics efficiently and effectively in everyday life. This course will give students tools and methods to apply to problems that arise in everyday life, work place, and society. Students may obtain math credit for this course.

**3117 ONRAMPS STATISTICS**

**Prerequisite:** Algebra 2

**Placement: 11 - 12****Credits: 1**

OnRamps Statistics is a dual enrollment data analysis course for high school juniors and seniors seeking to develop the quantitative reasoning skills and habits of mind necessary to succeed in the higher education environment. This course will target conceptual understanding and hone highly-relevant mathematical skills through scaffolded introduction to statistical methodologies, informal game play and strategic lab exercises that engage students in hands on analysis of real data. This course offering is a Texas Core Curriculum course in which students may earn three hours of college credit for MATH 1342. A grade of an A or B in this course may be used towards earning a Performance Acknowledgement. **College fees for this course will be paid for by the AHS CTE department.**

**1425 SOCIAL MEDIA MARKETING**

**Prerequisite:** Principles of Business, Marketing and Finance

**Placement: 9 - 12****Credits: ½**

Social Media Marketing is designed to look at the rise of social media and how marketers are integrating social media tools in their overall marketing strategy. The course will investigate how the marketing community measures success in the new world of social media. Students will manage a successful social media presence for an organization, understand techniques for gaining customer and consumer buy-in to achieve marketing goals, and properly select social media platforms to engage consumers and monitor and measure the results of these efforts.

**1428 SPORTS AND ENTERTAINMENT MARKETING**

**Prerequisite:** Principles of Business, Marketing and Finance

**Placement: 9 - 12****Credits: ½**

Sports and Entertainment Marketing will provide students with a thorough understanding of the marketing concepts and theories that apply to sports and entertainment. The areas this course will cover include basic marketing concepts, publicity, sponsorship, endorsements, licensing, branding, event marketing, promotions, and sports and entertainment marketing strategies.

**4209 FUNDAMENTALS OF REAL ESTATE****Prerequisite: One credit in the Business Career Cluster****Certification: Texas Real Estate Sales Agent****Placement: 12****Credits: 1**

This course contains the curriculum necessary to complete the pre-licensure education requirements of the Texas Real Estate Commission (TREC) to obtain a real estate salesperson license. Includes the following TREC course materials: Principles of Real Estate I and II, Law of Contracts, Law of Agency, Real Estate Finance, and Promulgated Contract Forms.





Education &  
Training

## EDUCATION AND TRAINING CAREER CLUSTER

Planning, managing and providing education and training services, and related learning support services.

### **4400 PRINCIPLES OF EDUCATION & TRAINING**

**Prerequisite:** None

**Placement:** 9 - 10

**Credits:** 1

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

### **4600 PRINCIPLES OF HUMAN SERVICES**

**Prerequisite:** None

**Placement:** 9 - 10

**Credits:** 1

This course will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, and personal care 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. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

### **4401 HUMAN GROWTH & DEVELOPMENT**

**Prerequisite:** Principles of Human Services OR Principles of Education

**Placement:** 10 - 12

**Credits:** 1

Human Growth and Development 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.

### **4601 CHILD DEVELOPMENT**

**Prerequisite:** Principles of Human Services OR Principles of Education

**Placement:** 10 - 12

**Credits:** 1

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

### **4602 CHILD GUIDANCE**

**Prerequisite:** Child Development

**Placement:** 11 - 12

**Credits:** 2

Child Guidance 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. This is a two-period class.

**4402 TARLETON TODAY INSTRUCTIONAL PRACTICES IN EDUCATION****Prerequisite: One credit in the Education & Training Career Cluster****Placement: 10 - 12****Credits: 2**

The course provides students with opportunities to participate in early field observations at all levels of P-12 schools with varied and diverse student populations and provides students with support from college and school faculty, preferably in small cohort groups, for the purpose of introduction to and analysis of the culture of schooling and classrooms. This is a course in which students may earn three hours of college credit for EDUC 1301. A grade of an A or B in this course may be used towards earning a Performance Acknowledgement.

**College fees for this course will be paid for by the AHS CTE department.**

**4403 TARLETON TODAY PRACTICUM IN EDUCATION & TRAINING****Prerequisite: Instructional Practices****Placement: 11 - 12****Credits: 2**

Practicum in Education and Training is a field-based internship that provides students background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood education and exemplary educators in direct instructional roles with elementary and middle 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. This is a course in which students may earn six hours of college credit for EDUC 2301 & 2330. A grade of an A or B in this course may be used towards earning a Performance Acknowledgement. **College fees for this course will be paid for by the AHS CTE department.**

**4404 PRACTICUM IN EARLY LEARNING****Prerequisite: Three credits in the Education & Training Career Cluster****Placement: 11 - 12****Credits: 2**

Practicum in Early Learning 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. Practicum in Early Learning 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.



Health Science

## HEALTH SCIENCE CAREER CLUSTER

Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

### **4500 PRINCIPLES OF HEALTH SCIENCE**

**Prerequisite:** None

**Placement:** 9 - 10

**Credit:** 1

Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. Students are expected to apply the knowledge and skills necessary to pursue a health science career and one day transition to clinical or work-based experiences in health care.

### **4504 MEDICAL TERMINOLOGY**

**Prerequisite:** Principles of Health Science

**Placement:** 10 - 12

**Credit:** 1

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

### **4501 HEALTH SCIENCE THEORY / CLINICAL**

**Prerequisite:** Principles of Health Science and Medical Terminology

**Certification:** CNA, PCT, ECG and Phlebotomy

**Placement:** 11 - 12

**Credits:** 2

The Health Science course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies such as clinical rotation and career preparation learning. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Certifications in Certified Nurse Aide (CNA), Patient Care Technician (PCT), Phlebotomy, and Electrocardiogram (ECG) may be obtained in this course. All students are required to have a background check, state issued ID, social security number and tuberculosis test (administered at AHS). This is a two-period course.

### **4502 PHARMACOLOGY**

**Prerequisite:** Medical Terminology

**Certification:** Certified Pharmacy Technician (CPhT and/or ExCPT)

**Placement:** 12

**Credits:** 1

The Pharmacology course is designed to study how natural and synthetic chemical agents such as drugs affect biological systems. Knowledge of the properties of therapeutic agents is vital in providing quality health care. It is an ever-changing, growing body of information that continually demands greater amounts of time and education from health care workers.

### **3215 ANATOMY & PHYSIOLOGY OF HUMAN SYSTEMS**

**Prerequisite:** Biology and Chemistry

**Placement:** 11 - 12

**Credits:** 1

Anatomy & Physiology is a lab-oriented course that explores the structures of the human body and how those parts carry out their functions. Students study a variety of topics that include medical careers, scientists, energy needs, and responses of the body to internal and external forces, homeostasis processes, electrical conduction processes and interactions, transport systems, environmental factors, anatomical structures and physiology functions, and the processes of reproduction, growth, and development. Students enrolled in this course should be able to dissect preserved animal and specific organ specimen. Videos of surgical procedures will also be viewed and discussed. Students may obtain science credit for this course.

**3240 TARLETON TODAY ANATOMY & PHYSIOLOGY**  
**Prerequisite: Biology and Chemistry**

**Placement: 11 - 12**  
**Credits: 1**

This college course covers basic physiological principles and their applications in the study of the skeletal, muscular, and nervous systems are emphasized. Substantial microscopic observation required. Students have the opportunity to earn four credit hours (lecture and lab) for BIOL 2401, which will satisfy the core requirements for a lab science course in most four-year universities. Confirm transfer credit with the university of your choice before registering for this class. A grade of an A or B in this course may be used towards earning a Performance Acknowledgement. **College textbooks and tuition will be paid for by the AHS CTE department.**

**3234 MEDICAL MICROBIOLOGY**  
**Prerequisite: Biology and Chemistry**

**Placement: 11 - 12**  
**Credits: 1**

Medical Microbiology reviews the history and classification of all medical microbes, as well as, contemplates the future use of microbes in genetic transfer and engineering. Microbes of each area of the body are discussed in great detail, including how microbes reproduce, spread and are destroyed. Disease causing bacteria, parasites, and viruses are discussed and researched. There will be many labs and projects exploring growth and interesting details of microbes. Students may obtain science credit for this course.

**3235 PATHOPHYSIOLOGY**

**Prerequisite: Completion of or current enrollment in Anatomy and Physiology**

**Placement: 11 - 12**  
**Credits: 1**

Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology. Students will view videos depicting surgical procedures and disease states and treatments. Students may obtain science credit for this course.

**4807 EMERGENCY MEDICAL TECHNICIAN - BASIC**  
**Prerequisite: Anatomy & Physiology**  
**Certification: Emergency Medical Technician - Basic**

**Placement: 12**  
**Credits: 2**

This course instructs students to meet and exceed standard knowledge needed to be a valid Emergency Medical Technician (EMT). The curriculum includes skills necessary for a student to provide entry level emergency medical care, life support, and ambulance service. This is a basic introductory course to concepts, knowledge and skills needed by EMTs in the areas of communications, transportation, and recordkeeping. This is a two-period course.

**4505 PRACTICUM IN HEALTH SCIENCE**  
**Prerequisite: Three credits in the Health Science Career Cluster**

**Placement: 11 - 12**  
**Credits: 2**

The Health Science Career Cluster focuses on planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development. The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.



## HOSPITALITY CAREER CLUSTER

Hospitality & Tourism encompasses the management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.

### **4301 INTRODUCTION TO CULINARY ARTS**

**Prerequisite:** None

**Certification:** Food Handler Certification

**Placement:** 9 - 10

**Credits:** 1

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

### **4302 CULINARY ARTS**

**Prerequisite:** Introduction to Culinary Arts and Food Handler Certification

**Certification:** ServSafe Manager Certification

**Placement:** 10 - 12

**Credits:** 2

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. This is an intensive lab-based course using a professional kitchen to prepare students for a career in the restaurant industry. This is a two-period course.

### **4303 ADVANCED CULINARY ARTS**

**Prerequisite:** Culinary Arts and Serv Safe Manager Certification

**Placement:** 11 - 12

**Credits:** 2

Advanced Culinary Arts integrates academic and career and technical education. Instruction may be delivered through school-based laboratory training or through work-based delivery arrangements such as a cooperative. This course is a two-period course.

### **4304 PRACTICUM IN CULINARY ARTS**

**Prerequisite:** Advanced Culinary Arts

**Placement:** 12

**Credits:** 2

Practicum in Culinary Arts 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. Practicum in Culinary Arts 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.

### **4205 ENTREPRENEURSHIP I**

**Prerequisite:** Principles of Business, Marketing and Finance

**Certification:** Entrepreneurship and Small Business

**Placement:** 9 - 12

**Credits:** 1

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

**4225 PRACTICUM IN ENTREPRENEURSHIP****Prerequisite: Three or more credits in this Career Cluster****Placement: 11 - 12****Credits: 2**

The Practicum in Entrepreneurship provides students the opportunity to apply classroom learnings and experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and build on and apply the knowledge and skills gained from courses taken in an array of career areas. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of the student's need for work-based learning experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. It is recommended that students are paired with local business owners or employers in their specific industry program of study.



## **HUMAN SERVICES CAREER CLUSTER (Family & Consumer Sciences)**

**Preparing individuals for employment in career pathways that relate to families and human needs.**

### **4600 PRINCIPLES OF HUMAN SERVICES**

**Prerequisite: None**

**Placement: 9 - 10**

**Credits: 1**

This course will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, and personal care 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. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

### **1463 INTERPERSONAL STUDIES**

**Prerequisite: None**

**Placement: 9 - 12**

**Credits: ½**

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

### **1464 LIFETIME NUTRITION AND WELLNESS**

**Prerequisite: None**

**Placement: 10 - 12**

**Credits: ½**

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

### **1424 DOLLARS AND SENSE**

**Prerequisite: None**

**Placement: 9 - 12**

**Credits: ½**

Dollars and Sense focuses on consumer practices and responsibilities, the money management process, decision-making skills, impact of technology, and preparation for managing one's own financial affairs.

### **4601 CHILD DEVELOPMENT**

**Prerequisite: Principles of Human Services OR Principles of Education**

**Placement: 10 - 12**

**Credits: 1**

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

### **4401 HUMAN GROWTH & DEVELOPMENT**

**Prerequisite: Principles of Human Services OR Principles of Education**

**Placement: 10 - 12**

**Credits: 1**

Human Growth and Development 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.

**4603 COUNSELING AND MENTAL HEALTH****Prerequisite: One credit in the Human Services OR Law Career Clusters****Placement: 10 - 12****Credits: 1**

Students begin the study of mental health disorders and examine treatment options. Students learn self-management skills that will benefit them in a variety of human services professions such as their ethical/legal responsibilities, the limitations/implications of their actions and stress/coping mechanisms. Students model knowledge and skills necessary to pursue Counseling & Mental Health careers through simulated environments.

**4607 SOCIAL AND COMMUNITY SERVICES****Prerequisite: One credit in the Human Services Career Cluster****Placement: 11 - 12****Credits: 1****Certification: Community Health Worker Certification with Texas DSHS**

Social and community services is a laboratory-based course designed to prepare students to enter the workforce in the field of social, nonprofit and community service. Students will develop and practice employability, professional and practical skills that will be useful in any career field. Students will synthesize their understanding of policies, human need, and how work within the social, community service sectors can provide a mutual benefit. Students have the opportunity to earn the Community Health Worker Industry Certification.

**4608 FAMILY AND COMMUNITY SERVICES****Prerequisite: One credit in the Human Services Career Cluster****Placement: 10 - 12****Credits: 1**

This course is designed to involve students in realistic and meaningful community-based activities through direct service or service-learning experiences. Students are provided opportunities to interact with and provide services to individuals, families, and the community through community or volunteer services.

**4604 PRACTICUM IN HUMAN SERVICES****Prerequisite: Three credits in the Human Services Career Cluster****Placement: 11 - 12****Credits: 2**

Practicum in Human Services 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. Practicum in Human Services 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.

**4205 ENTREPRENEURSHIP I****Prerequisite: Principles of Business, Marketing and Finance****Placement: 9 - 12****Credits: 1****Certification: Entrepreneurship and Small Business**

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

**4225 PRACTICUM IN ENTREPRENEURSHIP****Prerequisite: Three or more credits in this Career Cluster****Placement: 11 - 12****Credits: 2**

The Practicum in Entrepreneurship provides students the opportunity to apply classroom learnings and experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and build on and apply the knowledge and skills gained from courses taken in an array of career areas. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of the student's need for work-based learning experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. It is recommended that students are paired with local business owners or employers in their specific industry program of study.





## INFORMATION TECHNOLOGY CAREER CLUSTER

**Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.**

### **4701 COMPUTER SCIENCE I - PYTHON**

**Prerequisite:** None

**Certification:** Python Level 1 - CodeHS

**Placement:** 9 - 12

**Credits:** 1

In Introduction to Computer Science I - Python, students will acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students will learn the syntax and standards of the Python programming language in an RPG game environment. Students will write code to move through the game levels. Successful completion of this course satisfies the AHS graduation requirement for a technology credit.

### **4702 COMPUTER SCIENCE II - JAVA**

**Prerequisite:** Algebra I and Computer Science I - Python

**Certification:** Java Level 1 - CodeHS

**Placement:** 10 – 12

**Credits:** 1

In Computer Science II - Java, students will expand their knowledge and skills in structured programming techniques and concepts by addressing more complex problems and developing comprehensive programming solutions in the Java programming language. Students will apply technical skills to address business applications of emerging technologies.

### **4709 WEB DESIGN**

**Prerequisite:** Principles of IT OR Computer Science I - Python

**Certification:** Web Design Level 1 - CodeHS

**Placement:** 9 –12

**Credits:** 1

In Web Design, students will learn to make informed decisions and apply the decisions to the field of IT. 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. Successful completion of this course satisfies the AHS graduation requirement for a technology credit.

### **4714 FOUNDATIONS OF CYBERSECURITY**

**Prerequisite:** None

**Certification:** Cybersecurity Level 1 - CodeHS

**Placement:** 9 - 12

**Credits:** 1

In the Foundations of Cybersecurity 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. A variety of courses are available to students interested in this field. Foundations of Cybersecurity may serve as an introductory course in this field of study.

### **4716 AP CYBERSECURITY: SECURITY FUNDAMENTALS**

**Prerequisite:** Foundations of Cybersecurity

**Certification:** Comp TIA + Networking

**Placement:** 10 - 12

**Credits:** 1

Students will explore the current cyber threat landscape to understand the types of adversaries organizations face and the techniques adversaries use to compromise systems and data. Students will learn how vulnerabilities create risk and how organizations implement security controls to manage that risk. Topics in the course include physical, operational, application, and network security; security controls; cryptography; access control; attacks and detection; and response and recovery. Students will research emerging trends in cybersecurity and gain hands-on experience implementing security protocols. Cybersecurity Fundamentals is

designed to be the equivalent of a 3-credit course taken in the first or second year of a college cybersecurity degree or certificate program. Developed in partnership with higher education faculty, this course meets all of the requirements necessary to earn college credit. Cybersecurity Fundamentals is designed to help students develop understanding and skills that will contribute to their ability to pass widely recognized professional cybersecurity certifications such as CompTIA Security+ and Cisco Certified Support Technician (CCST): Cybersecurity.

#### **4715 CYBERSECURITY CAPSTONE**

**Prerequisite:** AP Cybersecurity

**Certification:** Cybersecurity Level 1 or 2 - CodeHS

**Placement:** 11 - 12

**Credits:** 1

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. The skills obtained in this course prepare students for additional study toward industry certification. A variety of courses are available to students interested in the cybersecurity field. Cybersecurity Capstone may serve as a culminating course in this field of study.

#### **4712 ONRAMPS QUANTUM COMPUTING**

**Prerequisite:** Algebra II

**Placement:** 11 - 12

**Credits:** 1

In Quantum Computing, students will learn how the science of quantum computing connects concepts in physics, mathematics, computer science, and cybersecurity. Students will collaborate with their peers as they learn how to send secret communications using cryptography, hack communications, build and use quantum optical simulations, and put some science-based context to the “quantum” part of quantum computing. This course offering is course in which students may earn three hours of college credit for UT PHY 309L. A grade of an A or B in this course may be used towards earning a Performance Acknowledgement. Successful completion of this course satisfies the AHS graduation requirement for a technology credit. **OnRamps fees for this course will be paid for by the AHS CTE department.**

#### **4713 ONRAMPS COMPUTER SCIENCE**

**Prerequisite:** Algebra I

**Placement:** 11 - 12

**Credits:** 1

In OnRamps Computer Science, 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. This course offering is course in which students may earn three hours of college credit for UT CS302. A grade of an A or B in this course may be used towards earning a Performance Acknowledgement. Successful completion of this course satisfies the AHS graduation requirement for a technology credit. **OnRamps fees for this course will be paid for by the AHS CTE department.**

#### **4718 PRACTICUM IN INFORMATION TECHNOLOGY**

**Prerequisite:** Three credits in the Information Technology Career Cluster

**Placement:** 11 - 12

**Credits:** 2

Practicum in Information Technology 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. Practicum in Information Technology 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.

**4205 ENTREPRENEURSHIP I****Prerequisite: Principles of Business, Marketing and Finance****Certification: Entrepreneurship and Small Business****Placement: 9 - 12****Credits: 1**

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

**4225 PRACTICUM IN ENTREPRENEURSHIP****Prerequisite: Three or more credits in this Career Cluster****Placement: 11 - 12****Credits: 2**

The Practicum in Entrepreneurship provides students the opportunity to apply classroom learnings and experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and build on and apply the knowledge and skills gained from courses taken in an array of career areas. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of the student's need for work-based learning experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. It is recommended that students are paired with local business owners or employers in their specific industry program of study.

**4719 PRACTICUM IN STEM****Prerequisite: Two credits in this Career Cluster****Placement: 11 - 12****Credits: 2**

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of courses in the STEM Career Cluster. Practicum in STEM 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. This is a two-period course and students may continue in this Practicum course for an additional year under course number **4720**.

**4724 EVOLVING/EMERGING TECHNOLOGIES****Prerequisite: Two credits in this Career Cluster****Placement: 11 - 12****Credits: 1**

In this course, students learn evolving/emerging technologies, including technology-related terms, concepts, and data input strategies, students will communicate information in different formats and to diverse audiences using a variety of technologies. Students will learn to make informed decisions, develop and produce original work that exemplifies the standards identified by the selected profession or discipline, and publish the product in electronic media and print. Students will demonstrate efficient acquisition of information by identifying task requirements, using search strategies, and using technology to access, analyze, and evaluate the acquired information. By using technology as a tool that supports the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. The six strands include creativity and innovation; communication and collaboration; research and information fluency; critical thinking; problem solving, and decision making; digital citizenship; and technology operations and concepts.



## **LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY CAREER CLUSTER**

Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.

### **4800 PRINCIPLES OF LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY**

**Prerequisite:** None

**Placement:** 9 - 10

**Credits:** 1

This course introduces students to professions in law enforcement, security, corrections, and fire 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, security, and corrections.

### **4603 COUNSELING AND MENTAL HEALTH**

**Prerequisite:** One credit in the Human Services OR Law Career Clusters

**Placement:** 10 - 12

**Credits:** 1

Students begin the study of mental health disorders and examine treatment options. Students learn self-management skills that will benefit them in a variety of human services professions such as their ethical/legal responsibilities, the limitations/implications of their actions and stress/coping mechanisms. Students model knowledge and skills necessary to pursue Counseling & Mental Health careers through simulated environments

### **4801 LAW ENFORCEMENT I**

**Prerequisite:** Principles of Law

**Placement:** 10 – 12

**Credits:** 1

This course is an overview of the history, organization, and functions of local, state, and federal law enforcement. This course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, and the classification and elements of crime.

### **4802 LAW ENFORCEMENT II**

**Prerequisite:** Law Enforcement I

**Placement:** 11 – 12

**Credits:** 1

This course provides the knowledge and skills necessary to prepare for a career in law enforcement. This course includes the ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony.

### **4803 CORRECTIONAL SERVICES**

**Prerequisite:** Law Enforcement I

**Certification:** Non-Commissioned Security Officer Level 2

**Placement:** 11 - 12

**Credits:** 1

In this course, students prepare for certification required for employment as a correctional officer. The student will learn the role and responsibilities of a correctional officer; discuss relevant rules, regulations, and laws; and discuss defensive tactics, restraint techniques, and first aid procedures as used in the correctional setting. The student will analyze rehabilitation and alternatives to institutionalization.

### **4804 CRIMINAL INVESTIGATION**

**Prerequisite:** Law Enforcement I

**Certification:** Non-Commissioned Security Officer Level 2

**Placement:** 11 – 12

**Credits:** 1

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.

**4805 FORENSIC SCIENCE****Prerequisite: Biology and Chemistry****Certification: Security Officer Level 2****Placement: 11 - 12****Credits: 1**

Forensic Science is a survey course that introduces students to the application of science to law. Students learn terminology and procedures related to the collection and examination of physical evidence using scientific processes performed in a field or laboratory setting. Students also learn the history and the legal aspects of forensic science.

**3215 ANATOMY & PHYSIOLOGY OF HUMAN SYSTEMS****Prerequisite: Biology and Chemistry****Placement: 11 - 12****Credits: 1**

Anatomy & Physiology is a lab-oriented course that explores the structures of the human body and how those parts carry out their functions. Students study a variety of topics that include medical careers, scientists, energy needs, and responses of the body to internal and external forces, homeostasis processes, electrical conduction processes and interactions, transport systems, environmental factors, anatomical structures and physiology functions, and the processes of reproduction, growth, and development. Students enrolled in this course should be able to dissect preserved animal and specific organ specimen. Videos of surgical procedures will also be viewed and discussed. Students may obtain science credit for this course.

**3240 TARLETON TODAY ANATOMY & PHYSIOLOGY****Prerequisite: Biology and Chemistry****Placement: 11 - 12****Credits: 1**

This college course covers basic physiological principles and their applications in the study of the skeletal, muscular, and nervous systems are emphasized. Substantial microscopic observation required. Students have the opportunity to earn four credit hours (lecture and lab) for BIOL 2401, which will satisfy the core requirements for a lab science course in most four-year universities. Confirm transfer credit with the university of your choice before registering for this class. A grade of an A or B in this course may be used towards earning a Performance Acknowledgement. **College textbooks and tuition will be paid for by the AHS CTE department.**

**4807 EMERGENCY MEDICAL TECHNICIAN - BASIC****Prerequisite: Anatomy & Physiology****Certification: Emergency Medical Technician - Basic****Placement: 12****Credits: 2**

This course instructs students to meet and exceed standard knowledge needed to be a valid Emergency Medical Technician (EMT). The curriculum includes skills necessary for a student to provide entry level emergency medical care, life support, and ambulance service. This is a basic introductory course to concepts, knowledge and skills needed by EMTs in the areas of communications, transportation, and recordkeeping. This is a two-period course.

**4806 PRACTICUM IN LAW****Prerequisite: Three or more credits in the Law Career Cluster****Placement: 11 - 12****Credits: 2**

Practicum in Law 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. Practicum in Law 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.



## MANUFACTURING CAREER CLUSTER

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

### **4101 INTRODUCTION TO WELDING**

**Prerequisite:** None

**Certification:** AWS D1.1 Tack

**Placement:** 10 – 12

**Credits:** 1

Introduction to Welding will introduce students 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 operating procedures, welding power sources, 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.

### **4102 WELDING I**

**Prerequisite:** Introduction to Welding

**Certification:** AWS D1.1 Structural

**Placement:** 11 – 12

**Credits:** 2

Welding I 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. 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 is a two-period course.

### **4105 WELDING II**

**Prerequisite:** Welding I

**Certification:** AWS D1.1 Structural MIG and TIG

**Placement:** 12

**Credits:** 2

Welding II builds on knowledge and skills developed in Welding I. Students will develop advanced welding concepts and skills as they relate to personal and career development. This course integrates academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Successful completion of this course satisfies the AHS graduation requirement for a technology credit. This course is a two-period course.

### **4106 ROBOTICS I**

**Prerequisite:** None

**Placement:** 9 - 12

**Credits:** 1

In Robotics I, students will explore the history and applications of robots, delve into basic electronics and mechanics, be introduced to the engineering design process, build student-designed prototypes and learn to code and control robots with C++ software.

### **4107 ROBOTICS II**

**Prerequisite:** Robotics I

**Placement:** 10 - 12

**Credits:** 1

In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs. Design projects may also include robotics competitive events. Successful completion of this course satisfies the AHS graduation requirement for a technology credit.

**4721 ENGINEERING DESIGN AND PRESENTATION****Prerequisite: Digital Electronics****Placement: 11 - 12****Credits: 1**

Engineering Design and Presentation is a continuation of knowledge and skills learned in Principles of Applied Engineering. Students enrolled in this course will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Additionally, students explore career opportunities in engineering, technology, and drafting and what is required to gain and maintain employment in these areas.

**4016 PRACTICUM OF MANUFACTURING****Prerequisite: Two credits in this Career Cluster****Placement: 11 - 12****Credits: 2**

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in a Manufacturing Career Cluster. This is a two-period course and students shall be awarded two credits for successful completion of this course.

**4205 ENTREPRENEURSHIP I****Prerequisite: Principles of Business, Marketing and Finance****Certification: Entrepreneurship and Small Business****Placement: 9 - 12****Credits: 1**

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

**4225 PRACTICUM IN ENTREPRENEURSHIP****Prerequisite: Three or more credits in this Career Cluster****Placement: 11 - 12****Credits: 2**

The Practicum in Entrepreneurship provides students the opportunity to apply classroom learnings and experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and build on and apply the knowledge and skills gained from courses taken in an array of career areas. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of the student's need for work-based learning experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. It is recommended that students are paired with local business owners or employers in their specific industry program of study.



Science,  
Technology,  
Engineering &  
Mathematics

## ENGINEERING CAREER CLUSTER

Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development.

### **4707 INTRODUCTION TO ENGINEERING DESIGN**

**Prerequisite:** None

**Certification:** AutoDesk Associate Certified User – Fusion360

**Placement:** 9 – 11

**Credits:** 1

This is the introductory course to Project Lead The Way. In this course, students use 3D solid modeling design software to help them design solutions to solve proposed problems. Students will learn how to document their work and communicate solutions to peers and members of the professional community. The major focus of the IED course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards and technical documentation. Successful completion of this course satisfies the AHS graduation requirement for a technology credit.

### **4710 DIGITAL ELECTRONICS**

**Prerequisite:** Introduction to Engineering Design

**Certification:** AutoDesk Certified Professional – Fusion360

**Placement:** 10 - 12

**Credits:** 1

Digital Electronics is a continuation of knowledge and skills learned in Principles of Applied Engineering. Students enrolled in this course will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Students will compete in the Fort Worth Regional Science and Engineering Fair Bell AVR, and Engineering Fair.

### **4711 ENGINEERING DESIGN AND PROBLEM SOLVING**

**Prerequisite:** Digital Electronics

**Placement:** 11 - 12

**Credits:** 1

The Engineering Design and Problem Solving course is the creative process of solving problems by identifying needs and then devising solutions. The solution may be a product, technique, structure, or process depending on the problem. Science aims to understand the natural world, while engineering seeks to shape this world to meet human needs and wants. Engineering design takes into consideration limiting factors or "design under constraint." Various engineering disciplines address a broad spectrum of design problems using specific concepts from the sciences and mathematics to derive a solution.

### **4721 ENGINEERING DESIGN AND PRESENTATION**

**Prerequisite:** Digital Electronics

**Placement:** 11 - 12

**Credits:** 1

Engineering Design and Presentation is a continuation of knowledge and skills learned in Principles of Applied Engineering. Students enrolled in this course will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Additionally, students explore career opportunities in engineering, technology, and drafting and what is required to gain and maintain employment in these areas.



**4717 INTRODUCTION TO UNMANNED AERIAL VEHICLE (UAV - Drones)**  
**Prerequisite: None**  
**Certification: FAA Part 107 Remote Pilot (MUST BE 16 YEARS OLD TO TEST)**

**Placement: 10 - 12**  
**Credits: 1**

The Introduction to Unmanned Aerial Vehicle (UAV) Flight course is designed to prepare students for entry-level employment or continuing education in piloting UAV operations. This course is designed to instruct students in Drone flight navigation, industry laws and regulations, and safety regulations. Students are also exposed to mission planning procedures, environmental factors, and human factors involved in the UAV industry.

**4106 ROBOTICS I**  
**Prerequisite: None**

**Placement: 9 - 12**  
**Credits: 1**

In Robotics I, students will explore the history and applications of robots, delve into basic electronics and mechanics, be introduced to the engineering design process, build student-designed prototypes and learn to code and control robots with C++ software.

**4107 ROBOTICS II**  
**Prerequisite: Robotics I**

**Placement: 10 - 12**  
**Credits: 1**

In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs. Design projects may also include robotics competitive events. Successful completion of this course satisfies the AHS graduation requirement for a technology credit.

**4719 PRACTICUM IN STEM**  
**Prerequisite: Two credits in the STEM Career Cluster**

**Placement: 11 - 12**  
**Credits: 2**

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of courses in the STEM Career Cluster. Practicum in STEM 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. This is a two-period course and students may continue in this Practicum course for an additional year under course number **4720**.

**4016 PRACTICUM OF MANUFACTURING**  
**Prerequisite: Two credits in this Career Cluster**

**Placement: 11 - 12**  
**Credits: 2**

The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in a Engineering Career Cluster. This is a two-period course and students shall be awarded two credits for successful completion of this course.



## TRANSPORTATION, DISTRIBUTION & LOGISTICS CAREER CLUSTER

Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

### **4900 AUTOMOTIVE BASICS**

**Prerequisite: None**

**Placement: 9 – 12**

**Credits: 1**

Automotive Basics includes knowledge of the basic automotive systems and the theory and principles of the components that make up each system and how to service these systems. Automotive Basics includes applicable safety and environmental rules and regulations. In this course, 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.

### **4901 AUTOMOTIVE TECHNOLOGY I – MAINTENANCE & LIGHT REPAIR**

**Prerequisite: Automotive Basics**

**Certification: ASE Entry Level Certification Tests (8)**

**Placement: 10 – 12**

**Credits: 2**

Automotive Technology I provides knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. This class is an entrance level study of the components that keep the automobile in good operating condition, as well as repair diagnosis of these components. The student will be better prepared for the job market and will be able to build upon their professional outlook as a future employee in the job market of today's technician. Students will have the opportunity to take the ASE certification exams. This is a two-period course. Successful completion of this course satisfies the AHS graduation requirement for a technology credit.

### **4902 AUTOMOTIVE TECHNOLOGY II – AUTOMOTIVE SERVICE**

**Prerequisite: Automotive Technology I**

**Certification: ASE Entry Level Certification Tests (8)**

**Placement: 11 – 12**

**Credits: 2**

Interactive level of intense study of the onboard computer aided high tech system of today's automobile. The student will develop the basic skills to enter the work force or a technical trade school to further their level of knowledge. Students will have the opportunity to take the ASA certification exams. This is a two-period course.

### **4903 PRACTICUM IN TRANSPORTATION SYSTEMS**

**Prerequisite: Automotive Technology II**

**Placement: 12**

**Credits: 2**

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 Transportation, Distribution, and Logistics Career Cluster.

### **4205 ENTREPRENEURSHIP I**

**Prerequisite: Principles of Business, Marketing and Finance**

**Certification: Entrepreneurship and Small Business**

**Placement: 9 - 12**

**Credits: 1**

In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

**4225 PRACTICUM IN ENTREPRENEURSHIP****Prerequisite: Three or more credits in this Career Cluster****Placement: 11 - 12****Credits: 2**

The Practicum in Entrepreneurship provides students the opportunity to apply classroom learnings and experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a real or simulated business owner versus the experience one would have as an employee. Students will prepare for an entrepreneurial career in their area of interest in their career cluster and build on and apply the knowledge and skills gained from courses taken in an array of career areas. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of the student's need for work-based learning experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or postsecondary education. It is recommended that students are paired with local business owners or employers in their specific industry program of study.

## HEALTH / PHYSICAL EDUCATION (P.E.) / ATHLETICS

**DIPLOMA REQUIREMENT:** One credit of Physical Education is required for graduation by the state of Texas. Students may earn up to three additional elective credits for Physical Education for a total of four credits. In addition to the regular PE courses, there are several ways to accumulate or waive these credits: athletics and trainers, drill team, JV/Varsity cheerleading and marching band/colorguard (fall semester).

### **1570 HEALTH**

**Prerequisite:** None

**Placement:** 9 - 12

**Credits:** ½

Health Education will foster individual personal health responsibilities concerning food selections, care of body systems, the use of alcohol, tobacco, and other drugs and accident prevention. Students will study health-related concepts and skills involving interaction between individuals such as the prevention and treatment of communicable and non-communicable diseases.

### **5501-5504 PHYSICAL EDUCATION I-IV**

**Prerequisite:** None

**Placement:** 9 - 12

**Credits:** 1

PE I-IV will analyze the components of physical fitness, and provide understanding of the relationship between fitness and stress, sound nutritional practices, and health problems associated with inadequate fitness. It will provide information on a variety of activities, safety practices, developing/maintaining an acceptable health-related level of fitness, and the relationship of regular physical activity and quality of life, as well as promoting a positive attitude towards regular physical activity.

### **5505 ADVENTURE / OUTDOOR EDUCATION**

**Prerequisite:** None

**Placement:** 9 - 12

**Credits:** 1

Adventure/Outdoor Education include activities such as archery, backpacking, camping, disc golf, hiking, Dutch oven cooking, and orienteering. Knowledge of The National Parks Association, Endangered Species Information, and Texas Parks and Wildlife Department's Boater Education and Angler's Education are a part of the curriculum. Recreational pursuits include field experiences in navigation, water recreation, fishing, survival skills, Dutch oven cooking, disc golf, rock climbing and archery.

### **5009 RACKET SPORTS PE**

**Prerequisite:** None

**Placement:** 9 - 12

**Credits:** 1

Racket Sports class would include three main sports; pickleball, tennis, and badminton with a major emphasis on pickleball. For these activities game rules, basic skills, and fundamentals will be taught. This class is intended for those who enjoy or are interested in these specific activities and would like to participate daily understanding, when appropriate, we may also go outside. Developing enjoyment for lifetime fitness activities such as these helps promote a positive attitude toward regular physical activity and helps create a healthier lifestyle.

### **5000, 5011 & 5012 P.E. DANCE I, II & III**

**Prerequisite:** None

**Placement:** 9 - 12

**Credits:** 1

These courses are designed to allow students to learn self-discipline and self-confidence through dance. It also provides students exploration into different dance styles and knowledge of factors that influence dance. This course will enable students to develop a dance vocabulary, various choreographic skills, and kinesthetic awareness. Instruction offered will be based around the following areas: jazz, hip-hop/funk, modern, lyrical/ballet, choreography/innovative movement, dance history, and performance. PE Dance I satisfies the PE graduation requirement and PE Dance II count as fine arts credits.

### **5741 - 5744 DRILL TEAM**

**Prerequisite:** Audition

**Placement:** 9 - 12

**Credits:** 1

Drill Team is a performing group for various athletic events and other school functions. Tryouts are held during the spring term of the preceding year. Drill Team members participate in various statewide and national competitions. Uniforms are required and summer Drill Team camp is mandatory. Drill Team I satisfies the PE graduation requirement. Drill Team II, III and IV count as fine arts credits.

**5745 DRILL TEAM PREP****Prerequisite: Anyone interested in training to be on Dazzlers****Placement: 9 – 11****Credits: 1**

Drill team prep class will foster physical fitness, teamwork, and discipline while equipping students with the skills needed for success in auditions. Promoting creativity, building confidence, and ensuring access to foundational training, and providing performance opportunities. This course aligns with the school's mission to support student development and prepare well-rounded individuals for future opportunities.

**5209-5212 CHEERLEADING****Prerequisite: Audition****Placement: 9 – 12****Credits: 1**

The purpose of this course is to prepare cheerleaders for all athletic events throughout the school year. Activities will include game and pep rally practice and spirit promotion. Uniforms are required and summer Cheerleading camp is mandatory. Students are required to purchase uniform accessories. Cheerleaders must adhere to all guidelines set forth in the cheerleader constitution.

**5001 - 5004 ATHLETIC TRAINER****Prerequisite: Application****Placement: 9 – 12****Credits: 1**

This course is designed to give students the opportunity to provide preventative, evaluative, and rehabilitative care for athletic injuries at AHS. Students are required to work all year with football and two other sports determined by student and head trainer. This course counts as PE equivalent.

**ATHLETICS****Prerequisite: Recommendation of the coach of the respective sport****Placement: 9 – 12****Credits: 1**

The Azle Independent School District Athletic Department offers a full range of UIL sponsored competitive athletic activities for young men and women. These courses include instruction in rules of the game, proper sportsmanship, training in skill and techniques, physical conditioning and competitive sports versus other UIL high schools. Football players must participate in spring training to be eligible to compete the following fall season. *Incoming 9th grade athletes must have a recommendation from a Jr. High coach and must have new physical forms prior to try-outs.*

Each varsity head coach sets the criteria for participation on a team. The opportunity to participate on a school team may require a try-out period. Expectations for making a team or staying on a team will be communicated prior to the season and/or tryout period. Some sports will have a "cut" process at the end of each try-out period. Students who are "cut" will be encouraged to try another sport or activity within the athletic program.

<b><u>GIRLS ATHLETICS 9<sup>th</sup> – 12<sup>th</sup></u></b>	<b><u>BOYS ATHLETICS 9<sup>th</sup> – 12<sup>th</sup></u></b>
<b>9<sup>th</sup>, JV &amp; Varsity Volleyball</b> <b>9<sup>th</sup>, JV &amp; Varsity Basketball</b> <b>JV &amp; Varsity Soccer</b> <b>JV &amp; Varsity Softball</b> <b>JV &amp; Varsity Tennis</b> <b>JV &amp; Varsity Track</b> <b>JV &amp; Varsity Cross Country</b> <b>Wrestling</b>	<b>9<sup>th</sup>, JV &amp; Varsity Football</b> <b>9<sup>th</sup>, JV &amp; Varsity Basketball</b> <b>JV &amp; Varsity Soccer</b> <b>9<sup>th</sup>, JV &amp; Varsity Baseball</b> <b>JV &amp; Varsity Tennis</b> <b>JV &amp; Varsity Track</b> <b>JV &amp; Varsity Cross Country</b> <b>Wrestling</b>
<i>The following sports take place off campus, after school hours and do not require pre-registration</i>	
<b>Golf</b> <b>Swimming</b>	<b>Golf</b> <b>Swimming</b>

**Notice:** Students who drop an athletic class may automatically be placed in a PE class and may be required to remain in the physical education program until the end of the current semester.

## **SPECIAL PROGRAMS**

### **3801-3802 PALS I & II (Peer Assistance and Leadership)**

**Prerequisite:** Application and committee recommendation

**Placement:** 11 - 12

**Credits:** 1

Students selected for this course will be trained to work as peer facilitators with students on the elementary and junior high campuses. Participants will be trained with a variety of helping skills that will enable them to assist other students in having a more positive and productive school experience. PALS will initiate and participate in community service projects. **Students will be expected to provide their own transportation. Students must also submit an application prior to being accepted into this program.**

### **5506 & 5507 PEER HELPERS I & II**

**Prerequisite:** None

**Placement:** 11 - 12

**Credits:** 1

Peer Helpers is a course where peers make a positive impact in their fellow peer's lives. Students will be assisting other students in having a positive and productive PE experience.

### **5516 PARTNERS IN ART**

**Prerequisite:** None

**Placement:** 11 - 12

**Credits:** 1

Partners in Art is a course where creative peers make a positive impact in their fellow peer's lives. Students will be assisting other students in having a positive Art experience.

### **5508, 5509, 5510, 5511 AVID I, II, III & IV**

**Prerequisite:** Application and committee recommendation

**Placement:** 9 - 12

**Credits:** 1

This Advancement Via Individual Determination (AVID) program prepares students in the academic middle and places these students on the college track, requiring them to enroll in Advanced courses. Students receive instruction in writing, inquiry, collaboration and reading strategies in addition to note-taking and organizational skills. There is an emphasis on analytical writing, focusing on personal goals and college readiness. Students will work in collaborative settings, learning how to participate in collegial discussions and tutorial sessions that focus on problem solving and probing questions. Additional outside of class activities include college visits, community service and other experiences designed for student success in college.

### **3000 OFFICE / LIBRARY AIDE**

**Prerequisite:** Counselor approval AND CCMR point earned

**Placement:** 12

**Credits:** Local credit

Students will assist staff in AHS offices or library. Students must have earned a CCMR point to take this course. This is a local credit only and may not be used towards graduation credits.

## RELEASE PERIODS

### **1011 & 2011 / 1018 & 2018 SENIOR RELEASE**

**Prerequisite: Counselor approval AND CCMR point earned**

**Placement: 12**

**Credits: 0**

Azle ISD wants to ensure students are prepared for life after high school. Our goal is to have each student deemed "College and Career Ready" per Texas Education Agency (TEA) guidelines. In order for students to have an early release period during their senior year, they must have earned at least 21 credits, have achieved "Approaches grade level" or higher on all STAAR EOC tests, and meet a College or Career readiness standard completing ONE of the seven actions listed below.

#### **Students may demonstrate College Readiness in one of the following ways:**

1. Meet SAT criteria in both ELAR and Math:
  - I. ELAR - Score of 480 or higher
  - II. Math - Score of 530 or higher
2. Meet ACT criteria in both ELAR and Math with a combined score of 40:
  - I. Math - Score of 22 or higher
3. Meet TSIA2 criteria in both ELAR and Math:
  - I. ELAR
    - i. CRC score of a 945-990 with an Essay of 5-8 or,
    - ii. CRC of a 910-944 with a Diagnostic Level of 5-6 and an Essay of 5-8
  - II. Math
    - i. CRC score of 950-990 or,
    - ii. CRC score of 910-949 with a Diagnostic Level of 6
4. Earn a score of 3 or above on an Advanced Placement exam
5. Earn college credit (a college grade of D or above) in any OnRamps course
6. Earn dual credit (9 hours or more in any subject or 3 hours or more in ELAR/math)
7. Earn an Industry Certification offered in a CTE course AND complete a CTE program of study
8. Successful completion of Texas College Bridge English and/or Math courses to meet TSI criteria

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