



Air Academy High School 2026-2027 Course Guide

Air Academy High School Home of the Kadets
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[Air Academy High School](https://www.airacademyhighschool.com)

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Disclaimer: All efforts have been made to ensure the accuracy of information contained in this document. In the case of an error, all applicable school and district policies will supersede the aforementioned information. Courses listed in this guide will be offered dependent upon enrollment and staffing.

Air Academy High School Curriculum Guide 2026-2027

This curriculum guide has been developed to assist you in planning for a successful high school experience. This guide contains the requirements that you must meet to graduate from Air Academy High School. It also contains brief descriptions of all the courses offered at Air Academy High School.

Study the graduation requirements and course descriptions carefully with your parents before planning your courses. Your counselor and teachers will assist you with your decisions. Your choice of courses should be based upon graduation requirements, post-high school plans, teacher recommendations, interests and abilities, and past achievements.

**It is important to note that some of the courses listed in this guide may not be offered due to insufficient student registration.

**Note that all fees listed are subject to change at any time.

**We update information in the Course Guide on a regular basis. Please refer to the [AAHS Website](#)

New Students to the District Should:

1. Start the registration process by navigating to the [Academy School District 20 website](#). Click on the Register Icon and follow the directions.
2. After completing the online registration, take all paperwork to the Academy School District Education and Administration Center at 1110 Chapel Hills Drive, Colorado Springs, CO 80920 (719) 234-1200.
3. After completing the steps, call Air Academy High School counseling office (719) 234-2400 to make an appointment to schedule classes.
4. Bring a withdrawal form with grades and a current transcript from their previous school to help ensure correct placement.

Air Academy Mission Statement

The mission of **Air Academy High School**: All students will demonstrate at least one year of academic growth annually as measured by a body of evidence to include national, state, and school developed assessments.

District 20 Mission Statement

We educate and inspire students to thrive in a safe and supportive environment.

Our Values.

What we believe and how we behave.

We believe in quality education. We aspire to teach and learn in ways that value the growth of all students, engaging them to demonstrate excellence as we respect their individual journeys and prioritize their safety.

We believe people are the heart of our success. We aspire to practice meaningful inclusion, honor diversity and develop connectedness throughout our school community.

We believe relationships matter. We aspire to nurture relationships rooted in honesty, integrity, equity, transparency and student safety to drive continued growth and positive change.

Our Vision.

Our big goal and vivid description of what it will be like when we arrive.

All students will have the knowledge, skills, and character necessary for successful transition to the next level and upon graduation will be fully prepared for success.

- **Knowledge and skills:** All students will show annual growth toward increasing levels of academic proficiency, across all content areas, by meeting or exceeding Colorado academic standards and District 20 graduation requirements and will identify and pursue their areas of personal interest and ability.
- **Character:** All students will develop the qualities of character necessary to be exemplary citizens and positive contributors to society.

Special Markings in This Guide

✿ Indicates that students may take courses for college credit as well as high school credit (dual credit). Additional fees and curriculum requirements may apply. See the teacher or counselor for more information.

* Indicates that the course has been approved for weighted status at AAHS. They include: all Advanced Placement courses, all AAHS Honors courses, Calculus 3.

R Indicates courses are eligible to be retaken for credit.

■ Higher Education Admissions Recommendations (HEAR) – Air Academy courses that meet HEAR recommendations.

Graduation

All students who graduate from District 20 schools should have a firm foundation in the core areas of English, world languages, mathematics, science, and social science as well as a comprehensive background in arts, physical education, and other electives. To be prepared for post graduate careers or higher education, students should select courses which are related to their post-secondary plan and are academically demanding. Courses must align with Colorado Academic Standards and integrate 21st Century skills. The course work outlined in this policy is the minimum required for earning a diploma; students should strive to challenge themselves by exceeding the requirements whenever possible in accordance with their post-graduation goals. School officials will work with students in developing their Individual Career and Academic Plans (ICAP) which include plans for high school courses. In collaboration with parents/guardians and students, counselors will review and update these plans annually, beginning in sixth grade when students shall be advised of available high school course pathways.

Course work requirements for graduation are based on the number of units of credit earned in grades 9 through 12. A unit of credit is typically the credit received for a one semester course. A minimum of 50 units of credit shall be required for graduation from high school. Specific requirements may be waived with the approval of the principal. Appeals will be directed to the superintendent or designee.

Coursework Requirements (All Graduates)

Course Type	Credits	Special Notes
English	8	Grade-specific English courses only. English electives do not count toward graduation requirements.
Science	6	Four of the six credits must be from laboratory science classes.
Mathematics	6	All students must complete Algebra 1 and Geometry (either in middle school or in high school). All students must earn 6 math credits during grades 9-12.
Social Science	6	Social Science requirements include two required credits of U.S. History, one credit of Civics, and two required credits of *World History or another course covering Holocaust and Genocide studies as required by House Bill 20-1336. World History requirement begins with the Class of 2028.
World Language	2	High school level world language courses taken in middle school may apply to this requirement but will not count toward the requirement of 50 total credits. When applying middle school world language credits to meet this requirement, 2 additional core elective credits must be earned.
Core Electives	6	Core elective requirements include courses in English, world language, mathematics, science, and social science.
Physical Education	3	
Health	1	
Arts	1	Arts requirements include visual and performing arts.
Unrestricted Electives	11	Credits earned beyond the requirements listed above will count as unrestricted elective credit
TOTAL	50	

Beginning with the ninth-grade class of 2024-25, World History or another course covering Holocaust and Genocide studies as required by House Bill 20-1336 will become a requirement for graduation.

Early Graduation from High School

Students considering the possibility of graduating at the end of the first semester of their senior year must submit an Application for Early Graduation Form available in the College & Career Center of Student Services. **The deadline for application for early graduation is May 1st of the student's Junior year.** The preparation for early graduation includes:

- Making a first semester senior schedule to meet all graduation requirements
- Meeting with the appropriate Counselor and the College and Career Counselor
- A letter explaining the reasons for early graduation
- Future plans of the student
- Parental approval
- Principal's approval

Many colleges and universities give admission preferences to students who complete four years of high school and those who use that time to take accelerated, honors or Advanced Placement courses. Please check with the specific college(s) that you are interested in attending to see how they evaluate students who graduate a semester (or a year) early if you are interested in being an early graduate.

Seal of Biliteracy

Air Academy High School recognizes and honors the work of students to obtain proficiency in English and another language by adopting the Seal of Biliteracy. Students who earn the Seal of Biliteracy will receive a gold seal on their diploma and will also wear the green cord during graduation. To earn this award, students must demonstrate proficiency in both English and another language.

- English – Students must demonstrate proficiency by completing all the English Language Arts courses required for graduation with an overall GPA of 3.0 or higher AND meet one of the requirements listed below:
 - SAT Evidence-Based Reading and Writing Exam – score 470 or higher;
 - AP English Language and Composition Exam or AP English Literature and Composition Exam – score 3 or higher;
- 2nd Language – Students must demonstrate proficiency in a language other than English by achieving one of the following:
 - AP World Language Exam – score 3 or higher;
 - World Language assessment – Intermediate mid or higher in speaking, listening, reading, and writing.

Math and RWC Proficiency

Students may demonstrate proficiency in math and/or RWC by any one of the following:

- Meeting the established minimum score on one or CDE's approved assessments.
- Obtaining an approved industry certificate that aligns with their individual career and academic plans (ICAP).
- Obtaining a C- or higher in an approved concurrent enrollment, college level course that aligns with their ICAP.
- Obtaining a passing score on a capstone project approved for math and/or RWC that aligns with their ICAP.

To be eligible for participation in commencement exercises, students must complete all graduation requirements by the date of graduation.

Students must also demonstrate proficiency in both math and English language arts (ELA) based on these guidelines.

Demonstration of Proficiency (Table)

Option	English Minimum	Math Minimum
SAT	470	500
ACT	18	19
Advanced Placement	2	2
ASVAB	31	31
Concurrent Enrollment	Grade of C-	Grade of C-
Capstone project	Passing Grade	Passing Grade
ACT WorkKeys	Bronze	Bronze
International Baccalaureate	4	4
Industry Certification	Certificate	Certificate
State Assessments	State scoring criteria	State scoring criteria

Grading Systems in High School

Weighted Grades and GPA Calculation

By School Board policy (IKAA-R), Courses which are weighted will have a consistently verifiable, elevated, and more rigorous curricula as compared to the unweighted equivalent courses. Advanced Placement and International Baccalaureate Diploma Programme courses automatically qualify for weighted status. Other courses that meet the definition may also have weighted status. Students who successfully pass a class that has been weighted will receive one (1) extra grade point per credit for that course. This will then be calculated with all other course grades.

Grade (Table)

Grade	Percentage	Grade Points	Honors/AP Grade Points
A+	96.5	4.0	5.0
A	93.5	4.0	5.0
A-	89.5	4.0	5.0
B+	86.5	3.0	4.0
B	83.5	3.0	4.0
B-	79.5	3.0	4.0
C+	76.5	2.0	3.0
C	73.5	2.0	3.0
C-	69.5	2.0	3.0
D+	66.5	1.0	2.0
D	63.5	1.0	2.0
D-	59.5	1.0	2.0
F	<59.5	0.0	0.0
WF	NA	0.0	0.0
P	NA	NA	NA
NC	NA	NA	NA
I	NA	NA	NA

Transfer Credits

Academy District 20 high schools use letter grades. If a student's transcript reports grades in both letters and percentages, Academy District 20 high schools will use the letter grades. If a transcript has only percentage grades, District 20 high schools will transfer the grade as a letter grade based on the individual school's grading standards.

Transferring To or From an Academy District 20

(School Board Policy IKAA E 2 and IKAA R)

Students will be classified according to the number of years they have been in attendance in high school. Students who do not complete enough credits to graduate in May of their original graduation year will need to meet with their counselor and obtain resources for an alternate plan to complete graduation requirements.

Academy District 20 high schools must receive official transcripts from the student's previous school before credit can be given. We will accept credit from any accredited high school that is aligned with D20 offerings. Copies of transcripts may be used for enrollment purposes only.

Letter grades: Academy District 20 high schools use letter grades. If a student transcript reports grades in both letters and percentages, Academy District 20 high schools will use the letter grades. If a transcript has only percentage grades, Academy District 20 high schools will transfer the grade as a letter grade based on the individual school's grading standards.

The following procedure applies for students transferring into an Academy District 20 high school: (Table)

Week	Information
0-4 Weeks	<ol style="list-style-type: none"> 1. Student's will receive a new high school schedule. 2. No transfer grades are necessary but will be applied if available. 3. Student's grade will begin on student's start date. 4. No makeup work will be required but student is responsible for all content that will be tested on the final exam.
5-9 Weeks	<ol style="list-style-type: none"> 1. Counselors will match the student's previous schedule as closely as possible. 2. Transfer grades will be applied for specific class or content area where available. 3. Classes that do not have a transfer grade will begin on the student's start date as far as grading. No makeup work will be required but the student is responsible for all content that will be tested on the final exam. 4. For classes with no transfer grade, the student will have to pass the final exam with at least a 60% (D) or earn a 1.0 (evidence of developing foundational skills of target concepts--Evidence Based Grading) to earn credit and a letter grade in the course.
10-13 Weeks	<ol style="list-style-type: none"> 1. Counselors will match the student's previous schedule as closely as possible. 2. Transfer grades will be applied for specific class or content area where available. 3. Classes that do not have a transfer grade will begin on the student's start date as far as grading. No makeup work will be required but the student is responsible for all content that will be tested on the final exam. 4. For classes with no transfer grade, the student will have to pass the final exam with at least a 60% (D) or earn a 1.0 (evidence of developing foundational skills of target concepts--Evidence Based Grading) to earn credit and will receive a PASS for the course.
14-18 Weeks	<ol style="list-style-type: none"> 1. Counselors will use previous schedule to match the student's classes—transfer grades will be applied where available. 2. All other coursework will be audited for the remainder of the semester. NC (no credit) will be entered on transcript.

All guidelines are at the discretion of the principal and may be changed with approval to meet individual needs.

Weighted grades for Transfer Credit

For students transferring into a District 20 high school, from either within District 20 or from another district, credits will be weighted only if the transferring course meets one of the following criteria:

- The credit will be weighted if the course is an authorized Advanced Placement or International Baccalaureate Diploma Programme course.
- The credit will be weighted for a course that is a district-wide weighted course.
- The credit will be weighted for a course if the specific District 20 school into which the student is transferring offers the same course or one with a similar title and description. If the school into which the student is transferring does not offer the same course as that with a weighted credit from a previous school, the credit will be unweighted.

Two high school credits may be earned for each 3+ credit hour college class or 1 high school credit for each 1-2 credit hour college class if the class is on the Colorado Department of Higher Education Guaranteed Transfer list and is over 300/3000 level/not remedial or physical education.

The inclusion of Summa Cum Laude (4.5 & above), Magna Cum Laude (4.3-4.49), and Cum Laude (3.9-4.29) at graduation and all other honors will be based on a weighted grade point average. Additionally, students participating in the Post-Secondary Options Program need to obtain an application form from the TAG coordinator in order to possibly receive a weighted grade from their college coursework.

Outside Credits

AAHS allows a maximum of six (6) credits outside of District 20 offerings to count towards Graduation Requirements. Students can bring in one credit from non-District 20 offerings during the freshmen and sophomore years totaling two credits. During the student's junior and senior years, they may bring up to two (2) credits per year. Application is required prior to registering for outside credits (see counselor). An official transcript detailing the credit must be received in order for credit to be applied. Please note that most correspondence courses are not approved by the NCAA or other organizations. Please see your counselor if you need more information.

Home School Credit

In order to receive credit for any home school courses, students will be required to turn in a transcript from an accredited home school program. Credit may be awarded through a body of evidence of work completed and submitted to the department chair for review/approval. All home school credit will be given as pass/fail. See counselor or registrar for application.

Concurrent Enrollment Credits

The Concurrent Enrollment Programs Act (CE) (CRS 22-35-101 et seq.) makes it possible for eligible students in grades 9 through 12 who are under the age of 21 and officially registered with Academy District 20 to simultaneously enroll in their local high schools and in qualified institutions of higher learning. Interested students must meet all eligibility and application criteria as identified by the statute and further defined by the district/high school. Students should see the Post Secondary enrollment liaison to sign up for information meetings where specific dates/deadlines, eligibility, and application requirements and paperwork are distributed and explained. See the [Concurrent Enrollment](#) pages for more information.

Athletics & Activities Eligibility

Athletics & Activities Eligibility

In order to be eligible to participate in athletics and activities at AAHS:

1. Students must carry a minimum of 5 full credit classes the semester they compete and a minimum of 5 full credit classes the semester before they compete. In other words, if students are going to participate in athletics and activities, they must always carry a minimum of 5 full credit classes. (Teacher Assistant is only a ½ credit. There is no credit given for a partial absence.)
2. Students may not fail any course at the time of participation or the semester before they participate. Summer school can help students regain their eligibility. For further clarification, please see the athletic director or activities director.
3. Once students have entered high school, they have 8 consecutive semesters to complete their athletic eligibility.
4. Eligibility Checks: Students/athletes will have their grades checked on a bi-weekly basis to determine athletic and activity eligibility. If a student has failed **two classes during that two-week time**, he or she will become ineligible to participate for the next two weeks. The athletic director will pull all participating student/athletes' grades on Wednesday so that any discrepancies can be taken care of by 2:45PM that Friday. If the student athlete still shows a failing grade, he or she will be notified of his or her eligibility status and required to bring those grades up during the two-week ineligible period. It is up to each coach to determine whether that student/athlete will be allowed to practice during the ineligible period.

If you are a transfer family interested in athletics, please refer to the [CHSAA bylaw Handbook](#).

Please contact the Athletic Director at your previous school or at Air Academy, if you have any additional questions.

College Athletics: NCAA Eligibility

To be a qualified NCAA-eligible student athlete, students must meet requirements for coursework and grade point average. Student athletes who intend to compete in college should discuss their plans and these requirements with their counselor. For detailed information, visit the [NCAA Eligibility Center website](#)

Eligibility and Choice Schools

The 2009-10 Colorado High School Activities Association Handbook bylaws state in article 18: CHSAA supports school choice in academic pursuits and encourages its student participants to enhance their academic achievement. In concert with this attitude, the Association's philosophy addresses the establishment of a fair playing field for all student athletes.

(1800.1) The transfer rule addresses athletic eligibility only as it relates to transfer between schools. Rules related to age, semesters, academic requirements and other CHSAA by-laws may result in an eligible transfer being declared ineligible.

A student who transfers due to a bonafide family move will always have full transfer eligibility. (Bona Fide Family Move – The entire family vacating residence and moving to a new primary residence. This would be a permanent change of domicile by the person/people with whom the student is living to a new school area, with attendance at that school.)

(1800.2) A student entering high school for the first time shall be eligible for all interscholastic athletic competition. 1800.21 A student who transfers to a member school following the close of school for the summer and before the beginning of the school year, other than under the provisions stated in 1800.2, 1800.3 and 1800.44, will be ineligible for varsity competition in the first 50% of the maximum regular season contests determined by that classification in any sport in which the student was a participant during the past 12 months. The student's individual performance limits (innings, games, quarters, etc.) shall be adjusted accordingly.

The student may practice with the team and participate in an interscholastic contest at the sub-varsity level during this time. If there is no sub- varsity level, the student may not participate in an interscholastic contest until the game restriction is met. Spirit athletes who transfer without a bonafide family move will have restricted eligibility (non-participation in all games, competitions, performances, pep rallies) until the sixth Friday after the first contest date.

Exception 1: A student, regardless of past participation as noted in 1800.32, who transfers at the beginning of the school year but after becoming a team member in a sport in any high school will be ineligible for varsity competition in that sport for the remainder of that sports season. A student becomes a team member when he/she reports for formal practice and is actively in contention for a position on the team.

(1800.22) For purposes of this rule, "the beginning of the school year" shall be defined as that period of time prior to a student's enrollment and attendance for 15 days or his/her participation in an interscholastic contest or scrimmage.

(1800.3) Except as specifically provided in by-laws 1800.31 through 1800.36, 1800.4 and 1800.44, any student who transfers schools after the beginning of the school year will not have varsity eligibility at the receiving school for the remainder of that school year and is subject to the provisions of by-law 1800.21 for the following school year for up to one calendar year after the school transfer.

Please contact the Athletic Director at your previous school or at Air Academy, if you have any additional questions.

College Athletics: NCAA Eligibility

To be a qualified NCAA-eligible student athlete, students must meet requirements for coursework and grade point average. Student athletes who intend to compete in college should discuss their plans and these requirements with their counselor. For detailed information, visit the [NCAA Eligibility Center website](#).

Schedule Change Policy

Week 1 Schedule Changes

Schedule changes for students will be limited to the following:

- Students without a full schedule (report to Student Services during the missing block)
- Students who failed a course or prerequisite for a course
- Administrative recommendation

Week 2 Schedule Changes

Students may request a change in their schedule by seeing their counselor in Student Services. The request will require the input of the involved teachers, parents, counselor, and administrator as indicated by the respective signatures required on the "Request for Schedule Change" form. Educational needs and space availability are also considerations.

No change will be made until the request form is returned to the counselor and the new schedule is entered into the system. Students are to attend the classes that appear on the computer - they will remain in the originally scheduled classes until the changes are completed.

- Courses dropped through the 14th day of the semester will not appear on the student's transcript.
- Beginning with the 15th day, students who withdraw from a course will receive a Withdraw/Fail (W/F) for the course they are dropping as a semester grade, unless they have been educationally misplaced, or have some other extenuating circumstances (i.e., hospitalization, or long term illness, etc.). The W/F will be calculated into the accumulated grade point average.

Please consider your alternatives carefully. You may be registered for these alternatives. If your schedule includes these alternatives, there will not be schedule changes made.

Remember - students must always attend the classes listed on the computer. The new schedule is not in effect until the "Request for Schedule Change" form is returned with all signatures and the counselor has entered the new schedule in the computer.

Students have three days in which to complete the process, after which the request may be denied.

Advanced Placement (AP) Program

The Advanced Placement (AP) program is an international program offered by The Advanced Placement (AP) Program is a national program offered by Air Academy High School in cooperation with College Board. The AP Program provides students the opportunity to pursue college-level studies while in high school. At the end of an AP course, students take a College Board National AP Exam administered on a national test date. Depending upon scores, a student may receive college-level credit for AP classes. Acceptance of AP scores for college credit is determined by each college or university. It is the student's responsibility to research policies at individual institutions regarding AP credit. Students select colleges and universities to whom they wish to have their scores mailed at the time of the AP examination.

AP courses are intended to meet the needs of students seeking significant advancement of curricular content. Because AP courses offer college-level curriculum, they are more demanding than a standard high school course. While AP courses have the academic rigor of a college program and reward achievement, they also provide greater opportunities to master a subject and to explore it in greater depth. Students who enroll in AP courses must be highly motivated and willing to work responsibly to develop analytical reasoning skills and disciplined study habits. AP courses exceed the minimum state standards for core content areas. AP courses have received district approval to award weighted credit.

The AP Exam

Students are expected to pay an exam fee (per class; AP Physics students pay for and take two exams) of approximately \$105. This exam fee is set by College Board and is subject to annual increases which may not be reflected by the time this course guide is published. Students are expected to pay the exam fee and take the exam. If you qualify for Federal Aid programs, you may apply for assistance with the AP exam fees.

AP Scores

Only students have the right to forward their AP scores to colleges and universities; therefore, to maintain student confidentiality and follow District 20 policy, AP test scores will not appear on PCHS transcripts. Students can view their score report online from College Board in July following spring testing. Official score reports can be requested through the College Board to be sent to the institution of choice at [College Board](https://collegeboard.org). Please visit the College Board/AP website for more information <https://myap.collegeboard.org>.

Additional information on AP courses and testing can be found at [College Board](https://collegeboard.org).

AP Courses Offered at AAHS

List of AP Courses		
Art History	European History	Psychology
Biology	French Language	Spanish Language
Calculus AB	German Language	Spanish Literature
Calculus BC	Human Geography	Statistics
Chemistry	Music Theory	Studio Art
English Lang & Comp	Physics C Elec & Magnetism	US Government & Politics
English Lit & Comp	Physics C Mechanics	US History
Environmental Science	PreCalculus	World History: Modern

AP test dates will be published in the student handbook. AP test registration will begin in October.

National Honor Society

Each Spring, students who have earned a minimum cumulative GPA of 3.75 (weighted or unweighted) are invited to apply for NHS. Applications should include evidence that the student has begun building experiences in each of the four pillars of NHS: Scholarship, Leadership, Character, Service.

Staff members review applications looking for evidence through:

- opportunities and experiences that the student has participated in which they have shown growth in leadership
- the GPA and essay mechanics
- opportunities and experiences that the student has participated in which they have shown growth in leadership
- strong teacher recommendations and a thoughtful and honest essay answer
- specific and significant experiences in which the student has served the wider community

If students are accepted into NHS, to retain membership, use on college applications, and wear cords at graduation, students will need to maintain their standing in each of the pillars including serving a minimum of 30 hours of community service each year.

Higher Education Admissions Requirements

Four-year colleges in Colorado recognize that strong academic preparation helps students succeed at the college level. As part of the admissions review process, many Colorado public four-year institutions consider the **Higher Education Admissions Recommendations (HEAR)**, which outline the minimum recommended levels of coursework in English, math, natural/physical sciences, social sciences, world languages, and academic electives.

Courses marked with an “H” in this guide meet HEAR recommendations. These credits reflect typical expectations for admission to Colorado’s public four-year institutions and are **not** intended to replace Academy District 20 graduation requirements or apply to community colleges, which have open-admissions policies.

HEAR guidelines are established by the **Colorado Department of Education (CDE)** and the [Colorado Department of Higher Education \(CDHE\)](#). Students and families can review the complete statewide recommendations on the CDE website ([see the recommendations at the CDE](#)). Additionally, HB 05-1057 requires districts to provide families with a list of courses that satisfy the Colorado Commission on Higher Education (CCHE) Higher Education Admission Guidelines. To view Academy District 20’s list of approved HEAR courses, please visit the **D20 HEAR page**.

Private colleges and universities set their own admission requirements and may differ from HEAR expectations. Students, considering private or out-of-state institutions should consult each college’s website, admission office, or representatives directly to confirm requirements.

Because admission criteria vary by institution and major, students are encouraged to explore multiple resources—including college websites, fairs, visits, and meetings with college representatives—and to work with the school’s College/Career Counseling office for support in planning a strong academic pathway.

To view or download the list of Academy District 20’s HEAR courses, please visit the [D20 HEAR page](#).

Post Secondary Planning/Individual Career & Academic Plan (ICAP)

The Individual Career & Academic Plan (ICAP) assists students with post-secondary planning and ensures they are prepared to make informed decisions about their futures. Colorado legislation requires all school districts to help high school students create an ICAP, and D20 goes beyond the 9–12 requirement by beginning this process in 6th grade.

ICAP serves as a student portfolio where learners record and reflect on information such as learning styles, interest inventory results, awards, community service, annual goals, and course planning. It helps students explore career and academic opportunities and guides the development of a secondary coursework plan that aligns with their post-secondary college and career goals. Through the ICAP process, students develop the awareness, knowledge, attitudes, and skills necessary to be college- and career-ready.

The Academy District 20 ICAP Program includes a variety of exploratory and planning activities that are customizable at the school, counselor, and student levels to best meet individual student needs. Students engage with the ICAP through the D20 College and Career Navigator, which can be accessed via The Student Hub/Clever.

[Colorado Department of Education ICAP Information Webpage](#)

[Meaningful Career Conversations Webpage](#)

[Career Guidance Best Practices Webpage](#)

[Academy District 20 Policy IHBK: Preparation for Postsecondary and Workforce Success Webpage](#)

College Admission Recommendations

We encourage Air Academy High School students to plan for post-high school education. Listed below are recommended admission criteria by level of selectivity. Requirements vary greatly (by major, etc.), so students should consult specific college websites, attend college fairs, and visit with college representatives. Consult with the College/Career Counseling office for information on how to access these resources.

In-State Four-Year Public Colleges

Colorado Pre-Collegiate Curriculum

The Pre-Collegiate Curriculum is a combination of courses in the academic areas that students should take for entrance to Colorado's four-year public colleges or universities.

English 4 years, 8 credits

Math 4 years, 8 credits - Algebra I, Geometry, Algebra II or equivalents

Natural/Physical Sciences 3 years, 6 credits Social Sciences 3 years, 6 credits - 1 Year of U.S. or World History

Academic Electives 2 years, 4 credits - Additional courses from above areas and/or world languages

World Language Most four-year colleges in Colorado recommend at least three years of the same world language. The University of Colorado system and Colorado State University requires two or three years, depending on the field of study.

Index Scores Four-year public universities and colleges in Colorado utilize the Grade Point Average and best ACT/SAT scores to calculate an Index number which is a basic requirement for admission. Different schools have different index number requirements. Your counselor has a chart showing these scales.

Most Highly Selective Universities

Minimum of 36 high school credits:

English 4 years - With a continued emphasis on writing

World Language	4 years - All study completed in one language
Math	4 years - Preferably including an introduction to Calculus
Science	4 years - To include two to three years of laboratory science. Recommended biology, chemistry and physics.
Social Science	4 years - To include one year of U.S. History
Arts	1 Year

College requirements for test scores and grade-point averages will vary from the most difficult (above) to noncompetitive, where virtually all applicants are accepted regardless of rank/GPA/scores. The three categories below describe where most other colleges fit.

- Very Selective** More than 50% of the college freshmen are in the top 10% of their high school class and scored over 1230 on the SAT I or 27-35 on the ACT; about 60% or fewer of the applicants were accepted.
- Moderately Selective** More than 75% of the freshmen are in the top half of their high school class and scored over 1010 on the SAT I or over 22 on the ACT; about 85% or fewer of the applicants were accepted.
- Minimally Selective** Most freshmen were not in the top half of their high school class and scored somewhat below 1010 on the SAT I or below 20 on the ACT; up to 95% of the applicants were accepted.

Admissions personnel will take into consideration the rigor of your curriculum, personal essay, letters of recommendation, extra-curricular activities, and community service activities.

Collegiate and Career Pathways

During the 2026-2027 School Year, AAHS will continue to offer the Collegiate/Career Pathways Programs. These programs are designed to offer students the option of making course selections that emphasize a particular course of study that compliments an area of interest or giftedness for a student.

Arts Integrated Pathway

AAHS Believes the arts are essential. An education in the arts teaches students critical thinking, information literacy, invention, collaboration and self-direction

9 th	10 th
Honors Arts Integrated Freshman Literature and Composition	Honors Arts Integrated World Literature and Composition
Honors Arts Integrated World Geography/Economics	Honors Arts Integrated World History

Aviation Pathway

Welcome to the exciting world of aviation, where dreams take flight and possibilities soar to new heights! Air Academy Aviation Pathway is dynamic and innovative program designed to ignite the passion for aviation in your minds. Whether you dream of piloting aircraft or yearn to design and fly drones, this pathway is the ticket to your future in the Aviation Industry.

The aviation Career and Technical Education Pathway provides a comprehensive curriculum, hands-on experiences and exposure to the aviation industry with professional speakers and field trips. This industry is in high demand with endless possibilities. Our program aims to prepare you for a successful and fulfilling career, next stop ground school. Welcome aboard!

Students enrolled in this pathway must take at least the first three courses in this pathway to pursue ground school for FAA written exam or the Part 107 drone certification exam. A select group of students may be able to complete the CTE Capstone in Work-Based Learning courses in pursuit of their private pilot's license.

9 th – 10 th	10 th – 12 th	11 th – 12 th	FAA Knowledge Exam	12 th
Introduction to Aviation & Aerospace (2 semesters) OR ROTC 1 (2 semesters)	Principles of Flight (2 semesters) Or Honors Aerospace Engineering (2 semesters) OR ROTC 2 (2 semesters)	Honors Advanced Flight (2 semesters)	FAA Knowledge Exam Private Pilot Airplane or Unmanned Aircraft General-Small	Pilot Work-based Learning (WBL) Flight Training at Soaring Eagles (Gliders) Falcon Aero Lab (Airplanes) Or UAS (Drone) Work-based Learning (WBL) job shadowing with industry partners
Alternate Pathway to Honors Advanced Flight – students must successfully complete ROTC 1 and 2		Pilot Pathway or UAS (Drone) Pathway – must be declared before second semester of Honors Advanced Flight	Must pass Knowledge Exam for WBL. Taken before the end of the school year.	

Digital Media Pathways

Digital Media Pathway courses are offered as electives and are designed to provide a sequential progression of study for the student interested in a digital media career. All courses meet or exceed Colorado State Content Standards. In addition, special attention is placed on incorporating ISTE (International Standards for Technology Education) and NETS (National Education Technology Standards) in curriculum design and delivery. The goal of the Digital Media Pathway is to develop creativity and technical fluency through digital story-telling and visual awareness. Students will acquire skills with a variety of industry-standard software and hardware, develop competencies for future career options in digital media, and participate in real-life experiences in digital media production and problem solving. Areas of study include graphic arts for print and the web, web design and implementation, digital video production, computer graphic design, computer animation, digital photography, and music technology.

Course sequencing is designed to allow students to emphasize a particular content strand within the overall program, thus enabling students to develop a high degree of expertise in their area of interest, and yet acquire a working understanding of the technical and creative integration inherent in digital media production. Students may pursue multiple strands.

Students must complete 52 credits total to receive the Pathway Distinction in addition to all district graduation requirements. Six of those 52 credits must be selected from the table below.

Audio	Imaging & Graphics	Video
Music Technology	Digital Photography 1	Foundations of Design, Multimedia Arts, and Digital Communications
	Digital Photography 2	Television Production
	Computer Animation	Filmmaking
	Computer Graphic Design 1	
	Computer Graphic Design 2	
	Computer Commercial Art 1	
	Computer Commercial Art 2	

Important Note: Not all courses in the Business and Marketing and Digital Media Pathways are offered every year. Students are highly encouraged to review the Course Curriculum Guide to determine course availability and to plan accordingly. Teachers in the Visual Arts department can assist.

Engineering Technology Pathway: Project Lead The Way PLTW

What is “Project Lead The Way (PLTW)”?

Project Lead the Way Engineering teaches students that real-world problems have multiple solutions with many pathways to achieve success. With engaging courses like aerospace engineering, civil engineering and architecture, digital electronics, and computer science, students are empowered to explore possibilities, experiment, learn from failure, and turn ideas into reality. PLTW Engineering encourages students to adopt a problem-solving mindset, engaging them in compelling, real-world challenges that help them become better collaborators and thinkers.

PLTW is a national program that has formed partnerships among public schools, institutions of higher education, and industry to increase the quantity and quality of students graduating from engineering and engineering technology institutions. The challenge to high schools and colleges today is to graduate students who are competent in the skills needed in today’s technological climate – math, science and technology, problem-solving, communication and teamwork that promote broad-based solutions to the problems and challenges of society. PLTW has developed a four-year set of courses that introduces students to the rigor and discipline of engineering and engineering technology prior to their entering college. PLTW also provides ongoing instructor training and curriculum development to keep them current. PLTW helps facilitate acquisition of state-of-the-art hardware and the latest software for training.

Students who complete this program will have a competitive advantage when they apply to college, not only for the preparatory skills gained, but also because of PLTW’s reputation for maintaining high standards.

How does the Project Lead The Way pathway of courses fit into a student’s schedule?

Students are expected to complete a college preparatory sequence of core Mathematics and Science in addition to courses in PLTW. The suggested Core Pathway Sequence is found in the table on the right. Most PLTW courses require either a prerequisite or teacher permission.

9 th – 12 th	10 th – 12 th	12 th
Honors Introduction to Engineering Design (IED)*	Honors Principles of Engineering (POE)*	Honors Engineering Design & Development (EDD)*
	Honors Aerospace Engineering (AE)*	
	Honors Civil Engineering and Architecture (CEA)*	
	Honors Computer Integrated Manufacturing (CIM)*	
	Honors Computer Science Principles (CSP)*	
	Honors Digital Electronics (DE)*	
	Honors Engineering Design & Development (EDD)*	
	Honors PLTW Advanced Manufacturing	

Notes:

- All courses are a full year in length.
- The foundational (core) PLTW courses: IED & POE
- Specialty PLTW courses: AE, CEA, CIM, CSP, & DE
- Capstone (senior) level PLTW course is EDD
- College credit may be obtained from UCCS.
- Industry CAD certifications may be earned in IED, CEA, and CIM.

Students that complete a minimum of three PLTW courses and four years of core Math/Science credits, may earn the Pathway designation on their transcripts and at graduation.

World Language Pathway

Air Academy encourages all students to engage in learning another language. Students taking a world language at Air Academy can expect a proficiency-oriented experience in their world language classes where interpretive, presentational, and interpersonal language use is emphasized.

- American Sign Language (ASL) 1-4 (Concurrent Enrollment Credit available for upper levels)
- French 1-4, AP French Language
- German 1-4, AP German Language
- Spanish 1-4, Honors Spanish 5 (conversational), AP Spanish Language, AP Spanish Literature

Seal of Biliteracy

All language learners (heritage and newer learners) are encouraged to apply for the Colorado Seal of Biliteracy for high school diplomas. This seal recognizes and honors students who have attained proficiency in two or more languages by the time they graduate high school. The ability to read, write, and speak/sign in multiple languages provides a marketable advantage with colleges, universities, and competitive job markets.

Additional College and Career Specialized Pathways not hosted at AAHS

[Concurrent Enrollment - PPSC and UCCS Academic Courses](#)

[Career Start at Pikes Peak State College](#)

[Cybersecurity](#)

[Automotive Service Technology](#)

[Building Construction Technology](#)

[Nursing Assistant](#)

[Emergency Medical Technician](#)

[Honors Teacher Cadet](#)

To see a full list of Specialized college pathways available to D20 students see [College & Career Services](#)

Career Academies

Career Academies are small learning communities (approximately 60 students) where the students' curriculum is tied closely to a specific industry. Even non-elective class content such as English, social studies, and science are tailored to be more relevant to the chosen Academy - so students can spend more time of every school day diving deeply into their career interests and passions.

Students remain in their chosen Career Academy throughout their high school experience. Students may also earn industry certificates and will participate in professional projects and internships.

Business Academy

Students in this program experience a four-year progression of business and marketing classes, engage in cross-curricular, project-based learning, participate in career-technical student organizations (DECA and/or FBLA), and become part of a small, career-focused learning community. EBM Academy graduates have the opportunity to earn industry certificates and participate in career panels, job shadowing, and internships - all while in high school.

Content Area	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Business Career Academy Major: Business	Introduction to Business (2 semesters)	Principles of Marketing (2 semesters) And Business Finance (2 semesters)	Strategic Marketing (1 semester) And Social Media Marketing (1 semester) And Accounting (1 semester)	Capstone: Business Administration (1 semester) And Work-Based Learning/Internship (WBL) (1 semester)
English	Honors Arts Integrated Freshman English (2 semesters)	Honors Arts Integrated World Literature (2 semesters)	English 11 (2 semesters)	English 12 (2 semesters)
Social Studies	Honors Arts Integrated World Geography (2 semesters)	Honors Arts Integrated World History (2 semesters)		

Business and Marketing Pathway

Students enrolled in this pathway must take at least 4 credits from the list of courses in the table below in addition to all district graduation requirements.

** Denotes that another marketing course must be taken concurrently to enroll in this course.

Business	Marketing
Introduction to Business (2 credits – Business Academy Students Only)	Creative Marketing 1/DECA (1 credit)
Ethical Leadership (formerly FBLA) (1 credit)	Marketing 1 (2 credits)
Business Law (1 credit)	Principles of Marketing (2 credits – Business Academy students only)
Business Finance 1 (1 credit)	Marketing II/DECA (2 credits)
Business Finance 2 (1 credit)	Advanced Marketing (2 credits)
Business Econ (1 credit)	Sports and Entertainment Marketing (1 credit)
Accounting 1 (1 credit)	School-based Enterprise (1 credit or 2 credits) **
Accounting 2 (1 credit)	

Media Arts Academy

Students in the Media Arts Academy can experience a variety of technical and artistic classes, engage in cross-curricular, project-based learning, participate in career-technical experiences, and become part of a small, career-focused learning community. Graduates have the opportunity to earn industry certificates and participate in career panels, job shadowing, and internships – all while in high school.

- Broadcasting
- Filmmaking
- Filmmaking (video/editing)
- Technical Theatre

Broadcasting

Content Area	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Media Arts Major: Broadcasting Journalism	Digital Media (2 semesters)	Broadcast Production (2 semesters)	Television Production (2 semesters)	Independent Study/Capstone (2 semesters)
English	Honors Arts Integrated Freshman English (2 semesters)	Honors Arts Integrated World Literature (2 semesters)	English 11 (2 semesters)	English 12 (2 semesters)
Social Studies	Honors Arts Integrated World Geography (2 semesters)	Honors Arts Integrated World History (2 semesters)		

Filmmaking

Content Area	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Media Arts Major: Filmmaking	Core Elective Film as Lit (1 Semester) Core Elective Speech (1 Semester)	Performance and Communications (2 semesters)	Filmmaking (2 Semesters) Optional: Editing (2 Semesters)	Capstone: Film Production (1 Semester) Work-based Learning (WBL) (1 Semester)
English	Honors Arts Integrated Freshman English (2 semesters)	Honors Arts Integrated World Literature (2 semesters)	English 11 (2 semesters)	English 12 (2 semesters)
Social Studies	Honors Arts Integrated World Geography (2 semesters)	Honors Arts Integrated World History (2 semesters)		

Film Making (video/editing)

Content Area	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Media Arts Major: Filmmaking (video/editing)	Foundations of Design, Multimedia Arts & Digital Communications (2 semesters)	Filmmaking (video/editing) (2 semesters)	Filmmaking (video/editing) (2 semesters)	Capstone: Film Editing (1 semester) Work-based Learning (WBL): Internships (1 semester)
English	Honors Arts Integrated Freshman English (2 semesters)	Honors Arts Integrated World Literature (2 semesters)	English 11 (2 semesters)	English 12 (2 semesters)
Social Studies	Honors Arts Integrated World Geography (2 semesters)	Honors Arts Integrated World History (2 semesters)		

Technical Theater

Content Area	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Media Arts Major: Technical Theatre	Technical Theater (2 semesters)	Set Design (2 semesters) Or Audio Video Productions I (2 semesters)	Production Management (2 semesters)	Capstone: Tech Theater of a student production (1 semester) Work-based Learning (WBL): Internships (1 semester)
English	Honors Arts Integrated Freshman English (2 semesters)	Honors Arts Integrated World Literature (2 semesters)	English 11 (2 semesters)	English 12 (2 semesters)
Social Studies	Honors Arts Integrated World Geography (2 semesters)	Honors Arts Integrated World History (2 semesters)		

To see a complete course progression for the Media Arts Academy, visit the [Media Arts Academy Web Page](#).

Air Force Junior ROTC

Air Academy High School offers a four-year Air Force Junior ROTC curriculum. Each year offers a unique academic focus while emphasizing leadership and character development concentrating on enhancing good citizenship. AFJROTC is a building block curriculum with the first year being a prerequisite for the upper level courses.

Note: All cadets are required to wear the Air Force issued uniform and comply with Air Force Instruction 36-2901 dress and personal appearance standards (i.e. hair length). Cadets are required to perform community service as part of the leadership grade. Continued enrollment in JROTC year-to-year is contingent upon cadet performance at each previous level. Each AFJROTC course is a yearlong experience; new enrollments are only allowed at the beginning of the year. Transfer students and students coming from other JROTC programs (Army, Navy, etc.) will be evaluated on a case-by-case basis for placement in AFJROTC.

9 th - 12 th	10 th - 12 th	11 th - 12 th	12 th
AFJROTC 1	AFJROTC 2	AFJROTC 3	AFJROTC 4 – after AFJROTC 1, 2, 3. Requires AFJROTC Instructor nomination and approval/signature.

AFJROTC Aerospace Science/Leadership Education 1

Grade: 9 -12

Prerequisite: Application and Instructor Approval

Course # 089100 A/B

Length: 1 year

Credits: 2 - Core Elective
(Social Studies)

Fee: \$40.00

The first year of Aerospace Science is “Milestones in Aviation History.” In this course students learn the origins of flight, early growth and formative years of the U.S., the progress of flight and use of airpower during World War I, the Golden Age of Aviation, World War II, Korean War, Vietnam, Desert Shield/Storm, Kosovo, etc. Students will study individual aviation pioneers such as Leonardo da Vinci, Orville and Wilbur Wright, Amelia Earhart, James Doolittle, Billy Mitchell, Carl Spaatz, Chuck Yeager, etc. The Leadership Education portion of the course will also address some of the customs, traditions, and history of the military and will emphasize leadership, character development, and good citizenship. Drill (marching) is also offered as part of the Leadership Education phase. First year cadets are required to perform 4 hours of community service per quarter.

AFJROTC Aerospace Science/Leadership Education 2

Grade: 10 -12

Prerequisite: AFJROTC 1 and Instructor Approval

Course # 089105 A/B

Length: 1 year

Credits: 2 - Core Elective
(Science)

Fee: \$25.00

The second year of Aerospace Science is “The Science of Flight.” In this course students learn the fundamentals of flight and are exposed to weather and its effects on flight, human physiology in flight, basic aeronautics, flight power, aerospace power, basic navigation, and navigation instruments. Students will conduct research and deliver classroom presentations on aviation topics. The Leadership Education portion of the course will address communication, personal awareness, group dynamics, problem solving, and will emphasize leadership, character development, and good citizenship. Drill (marching) is also offered as part of the Leadership Education phase. Second year cadets are required to perform 5 hours of community service per quarter.

AFJROTC Aerospace Science/Leadership Education 3

Grade: 11 -12

Prerequisite: AFJROTC 2 and Instructor Approval

Course # 089110 A/B

Length: 1 year

Credits: 2 -Core Elective
(Science)

Fee: \$25.00

The third year of Aerospace Science is “Exploring Space.” It provides an in-depth study of the Earth, Sun, stars, Moon, and solar system, including the terrestrial and the outer planets. It discusses issues critical to travel in the upper atmosphere such as orbits and trajectories, unmanned satellites, and space probes. It investigates the importance of entering space and discusses manned and unmanned space flights, focusing on concepts surrounding spaceflight, space vehicles, launch systems, and space missions. The section on manned spaceflight focuses on the space stations and beyond, covering milestones in the endeavor to land on the Moon and to safely

orbit humans and crafts for temporary and prolonged periods. The course covers the human aspect of spaceflight, focusing on the human experience in space. It also examines the latest advances in space technology, including robotics in space, the Mars Rover, and commercial uses of space. The Leadership Education portion of the course covers life skills, career paths, financial planning and college options. Leadership, character development, and good citizenship are emphasized throughout the course. Drill (marching) is also offered as part of the Leadership Education phase. Third year cadets are required to perform 8 hours of community service per quarter.

AFJROTC Aerospace Science/Leadership Education 4

Grade: 12

Prerequisite: AFJROTC 3 and Instructor Approval/Signature

Fee: \$25.00

Course # 089115 A/B

Length: 1 year

Credits: 2 - Unrestricted Elective

The fourth year of Aerospace Science is "Management of the Cadet Corps." This curriculum is designed to focus on the fundamentals of leadership and management. Attention will be given to four specific areas; management techniques, management decisions, management functions, and managing self and others. Each cadet will hold a position of leadership in the cadet wing and be responsible for applying the techniques and principles learned in class. This course requires a significant investment in time and effort outside the classroom to make the cadet wing run effectively and efficiently. The Leadership Education portion of the course covers principles of management, skills for planning and developing goals, managing time and stress, group decision making, and leadership issues and challenges. Drill (marching) is also offered as part of the Leadership Education phase. Fourth year cadets are required to perform 12 hours of community service per quarter. Physical fitness training will make up 20% of the course, approximately one class session every other week.

Business and Marketing

Air Academy High School offers a Business and Marketing Pathway Program for students who would like to concentrate in various areas of business (see complete description on page 14). The Business Department's primary goal is to prepare students for post-secondary education and/or careers as they begin the 21st century. Because of the academic rigor, many of our classes can be taken for elective credit and/or Pikes Peak State College credit through an articulation agreement with District 20 and PPSC.

In a world in which the only thing that is constant is change, students must be willing and able to adapt to the changing needs of business and industry. These trends and changes are covered in our classes. Strategies learned in business classes today can be applied to the real world today. Many topics are taught from the employers', employees', and consumers' point-of-view.

In addition to learning about strategies and trends in business, students enrolled in business classes also have opportunities to get involved in **DECA** and/or **FBLA**. Future Business Leaders of America (FBLA) and DECA are the student leadership organizations aligned with business and marketing education courses.

FBLA (Future Business Leaders):

There is no class requirement for FBLA, so any student can participate in FBLA. FBLA is a national student organization that prepares students to be business leaders in their community. Students have opportunities to compete in a variety of business related topics at district, state, and national competitions, as well as other membership activities.

Membership Fee: \$70

DECA

DECA is co-curricular student organization that is integral part of all marketing classes. Students have opportunities to compete in a variety of marketing related topics at district, state, and national competitions, as well as participate in community service and fundraising events. Students who have completed 1 semester of Marketing classes and are currently enrolled in a business class can also enroll in the School-based Enterprise Retail and Food (on the job training) class.

Membership Fee: \$70

Business Finance 1

Grades: 9-12

Prerequisite: Algebra 1

Examines the financial markets, financial instruments, and the actors in these markets. The course covers the use of time, value of money, and other financial models. Students will explore how businesses value different types of capital, will analyze financial data to analyze performance, will examine capital budgeting alternatives, and will evaluate working capital needs and costs.



Course # 112100

Length: 1 semester

Credits: 1 – Unrestricted Elective

Business Finance 2

Grades: 9-12

Prerequisite: Algebra 1

This semester-long course is designed for students who would like a detailed analysis of business policies and procedures as they relate to finance. Students will learn communication, management, and multicultural skills, as well as business finance skills. Topics may include managing finances for personnel, figuring production costs, purchasing, working with sales, marketing, warehousing and distribution, providing services to customers, accounting, issuing stocks and bonds, investing, and corporate planning.



Course # 112105

Length: 1 semester

Credits: 1 – Unrestricted Elective

Business Law

Grades 9-12

Prerequisite:

In our private enterprise economy, the relationship of business, government, and individuals can be very complex. This course gives the student a broad knowledge base of how our legal system began, how it has evolved, and what might influence its future development. Topics may include: The Constitution, Ethics in law, Crimes and torts, Laws for special groups, Making binding agreements, Contracts for buying and selling goods.



Course # 033300

Length: 1 semester

Credits: 1 – Unrestricted Elective

Ethical Leadership (R)**Course # 191008**

Grades: 9-12

Length: 1 semester

Prerequisite: None

Credits: 1 – Unrestricted Elective

FBLA Dues: \$70.00

Note: This course was formerly known as Future Business Leaders of America (FBLA)

Students in the principles-based ethics course, Ethical Leadership, will be introduced to key leadership and ethical knowledge and skills, including integrity, trust, accountability, fairness, respect, rule of law, and viability. Throughout the course, students will apply ethical principles to contemporary, real-world situations that teens and young adults often encounter in school, at home, with friends, and in entry-level job positions. They will examine the concept of ethical leadership and strengthen their leadership and ethical decision-making skills through the planning, implementation and evaluation of a class service-learning project. Students in this course will participate in FBLA.

Introduction to Business (Business Academy Students only) ■**Course # 030020 A/B**

Grades: 9th Only

Length: 1 year

Prerequisite: None

Credits: 2 – Unrestricted Elective

DECA Local/State/National Dues: \$70.00

In this course, students will apply fundamental business principles to local, national, and international forums. They will examine the relationship of economic systems, governance, regulations, and law upon business and entrepreneurial operations. The course surveys the concepts of career development, business ownership/entrepreneurship, finance and accounting, economics, marketing, management, operations, human resources, regulations, and business ethics.

Accounting 1**Course #031000**

Grades: 9-12

Length: 1 semester

Prerequisite: Algebra 1

Credits: 1 – Unrestricted Elective

Whether college-bound or going directly into the business world, this course is for anyone interested in learning the "language of business." Students will perform manual as well as computerized accounting activities. Topics may include transaction analysis, worksheet and financial statement preparation, accounting for sole proprietorships, partnerships and corporations, special journals, and payroll systems. Periodic job simulation projects will provide realistic job experiences. Accounting is the backbone of successful business practices and is highly encouraged for students who may be considering a degree in business or marketing.

Accounting 2**Course #031005**

Grades: 11-12

Length: 1 semester

Prerequisite: Accounting 1

Credits: 1 – Unrestricted Elective

This course is a continuation of Accounting 1 for college-bound or career-oriented students. Students will use computerized accounting programs while learning advanced accounting concepts including accounting for partnerships and corporations, divisions and systems within a company, accounting for non-profit organizations, uncollectible accounts, depreciation, and financial analysis and interpretation.

☛Creative Marketing 1/DECA**Course # 040021**

Grades: 10-12

Length: 1 semester

Prerequisite: None

Credits: 1 – Unrestricted Elective

DECA Local/State/National Dues: \$70.00

In today's economy, every business needs to be on the cutting edge in the way they promote products and/or services. Creative Marketing explores the concepts of marketing management, advertising, promotion, and selling using basic marketing functions. Students will create marketing plans for a product/service/business of their choice. The Student Store will provide hands-on experience in this curriculum.

Notes: Students may explore additional concepts of selling and skills for marketing. Students in this course will participate in DECA. DECA is the co-curricular student organization that allows for student participation in district, state, and national marketing competitions.

Personal Finance

Grades:11-12

Prerequisite:

Surveys the basic personal finance needs of most individuals and introduces the personal finance tools useful in planning and instituting a successful personal financial philosophy. The course emphasizes the basics of budgeting, buying, saving, borrowing, career planning, investing, retirement planning, estate planning, insurance, and income taxes.

Course # 153015

Length: 1 semester

Credits: 1 Unrestricted Elective

✿Principles of Marketing (EBM Academy Students only) ■

Grades: 10-12

Prerequisite: Intro to Business for EBM Academy

DECA Local/State/National Dues: \$70.00

Students are introduced to business and marketing by exploring such topics as promotion, selling, communication, leadership, human relations, and career opportunities including applications and interviews. This course is a continuation for the EBM Academy.

Course # 040075 A/B

Length: 1 year

Credits: 2 – Unrestricted Elective

Marketing 1/DECA**■**

Grades: 10-12

Prerequisite: None

DECA Local/State/National Dues: \$70.00

Students are introduced to business and marketing by exploring topics in promotion, selling, communication, leadership, human relations, and career opportunities including applications and interviews.

Notes: Students will be required to participate in DECA. Marketing students may also enroll in the School-based Enterprise -Retail and Food (on the job training).

Course # 040000

Length: 1 year

Credits: 2 – Unrestricted Elective

✿Marketing 2/DECA**■**

Grades: 11-12

Prerequisite: Any level 1 Marketing course

DECA Local/State/National Dues: \$70.00

In this course, students will increase knowledge and proficiency in the areas introduced in previous marketing courses. Students will learn how businesses, individual consumers, and our economy benefit from effective marketing. Students will gain insight into the world of advertising by creating their own marketing campaign for a company of their choice.

The Student Store will also provide hands-on experience in the curriculum.

Notes: Students will be required to become a DECA member. Marketing students may also enroll in the School-based Enterprise - Retail (on the job training) if employed in a marketing-related job.

Course # 040005 A/B

Length: 1 year

Credits: 2 – Unrestricted Elective

✿Advanced Marketing /DECA**■**

Grades: 12

Prerequisite: Marketing 2/DECA

DECA Local/State/National Dues: \$70.00

Students will continue to build upon knowledge and skills learned in previous marketing courses. Topics will include business management, international business, entrepreneurship, communication, finance, current business strategies and professional presentations.

Notes: Students will be required to participate in DECA. Marketing students may also enroll in the School-based Enterprise – Retail and Food (on the job training).

Course # 040010 A/B

Length: 1 year

Credits: 2 – Unrestricted Elective

✿School-based Enterprise Retail (R)

Grade: 10-12

Prerequisite: Must have taken or be currently enrolled in a DECA course

Course # 040095 or 040095 A/B

Length: 1 semester or 1 year

Credits: 1 – Unrestricted Elective
or within the same school year 2
- Unrestricted Elective

This course focuses on all facets of starting and managing a school-based enterprise. Focus will include writing a business plan, holding interviews, and establishing operating policies and procedures: building a solid framework of

work-based learning for the student. Students must be in a Marketing Class and in DECA to be in this course. Students will interview with the DECA advisor to be permitted to take this course.

Social Media for Business

Grade: 11-12

Prerequisite: Intro to Business and Principles of Marketing

Social Media for Business teaches students how to use social media as a business strategy and covers how to match that strategy with the goals of the business. This course addresses current trends, ethics, regulations, legal challenges, strategy, content development, and change management. This course helps students develop a better understanding of how marketing with social media is similar to and different from traditional marketing and how to best use online methods to further business goals.

Course # 030030

Length: 1 semester

Credits: 1 – Core Elective

Sports Entertainment Marketing

Grade: 10-12

Prerequisite: None

This course defines the importance and role of marketing, media, and public relations in the event planning industry. Students identify marketing and communication tools such as social media, promotional events, networking and blogs. Students design a marketing plan to include target market research, communication tools, objectives, strategies, and implementation

Course # 040032

Length: 1 semester

Credits: 1 – Unrestricted Elective

Strategic Marketing

Grades: 11-12

Prerequisite: Intro to Business and Principles of Marketing

Strategic marketing illustrates the connections between a market-driven strategy, customer satisfaction, and profitable growth. Students will examine how marketing strategies are developed and executed within both small and large organizations. The course will emphasize strategy development, implementation, and evaluation. This course is part of CTE's Secondary Pathways and aligns to Business Administration Pathway Level 3.

Course # 040080

Length: 1 semester

Credits: 1 – Core Elective

Work Based Learning in Business

Grade: 11-12

Prerequisite: None

This course is designed to prepare students to enter the workforce through on-the-job training in the form of a work-based learning experience and may be combined with class instruction. Students will build on prior knowledge and skills in the program of study aligned to their career and academic plan to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education. Students will have the opportunity to develop skills in supervised practical experience on the job or in a classroom-based job environment. A personalized learning plan is a requirement for this course. This course is part of CTE's Secondary Pathways and aligns with Business Administration Pathway Level 4.

Course # 030100

Length: 1 semester

Credits: 1 – Unrestricted Elective

Digital Media

Digital Photography! Computer Graphic Design! Computer Animation! The exciting world of digital media is yours at Air Academy High School's Visual Arts Department. All digital media courses are offered as electives and are designed to provide a sequential progression for the beginning student as well as the student interested in digital media as a career. The goal of the Visual Arts Department is to develop creativity and technical fluency through story-telling and visual awareness. Students will acquire skills with a variety of software, develop an understanding of future career options in digital media, and enjoy real-life experiences in digital media production, problem solving and 21st Century skills.

Broadcast Production (R)



Course # 191088 A/B

Grade: 10-12

Length: 1 year

Prerequisite:

Credits: 2 – Arts or Unrestricted

Elective Fee: \$40.00

Students will examine the techniques and technologies involved in creating multicamera shoots for the news and narrative broadcast television genres. Students will explore the unique logistical, structural, and aesthetic methodologies that distinguish broadcast production from other types of production. This course is part of CTE's Secondary Pathways and aligns with Technical Theatre Design and Technology Level 2.

Computer Animation (R)



Course # 026010

Grade: 9-12

Length: 1 semester

Prerequisite: None

Credits: 1 – Arts or Unrestricted

Elective

Fee: \$20.00

Students will learn how to create original computer animations using industry standard software. Projects will emphasize use of wireframe, motion paths, lighting and texture in producing original content. Students will create a portfolio of their work during this class.

Notes: Students will learn the importance of story-boarding, mind mapping, and the use of the artistic process to develop a strong plan and communicate their ideas through animations. This course may be ed for credit.

Computer Graphic Design 1



Course # 026025

Grade: 9-12

Length: 1 semester

Prerequisite: None

Credits: 1 – Arts or Unrestricted

Elective

Fee: \$20.00

Students will learn to use the computer as a tool for creating their own work and for manipulating digitized images. Students will use Adobe applications, as well as digital imaging devices, to create a variety of 2D projects, which may include story illustrations, juxtapositions, and original works of art. Final project is to create a portfolio in hard copy and electronically showcasing the student's skills.

Computer Graphic Design 2



Course # 026030

Grade: 9-12

Length: 1 semester

Prerequisite: Grade of "C" or better in Computer

Credits: 1 – Arts or Unrestricted

Elective

Fee: \$20.00

Graphic Design 1 recommended

Students will continue their study of digital fine art using Adobe applications and applying their skills to create more complex original digital compositions. Students will create a digital portfolio of the work they have done in class.

Computer Commercial Art 1

Grade: 9-12

Prerequisite: None

Elective

Fee: \$20.00

This course focuses on learning art elements and principles of design and their application to layout, design, typography, and illustration. Students will use industry standard software as well as other tools to create original design projects to include items such as labels, advertisements, posters, and business packages. This course concerns art related to selling products and services, and stresses originality and presentation closely related to professional commercial art. This is a computer-based course where students will utilize industry standard software (Adobe), vector art and create relevant commercial art products.

Course 020020

Length: 1 semester

Credits: 1 – Arts or Unrestricted

Computer Commercial Art 2

Grade: 9-12

Prerequisite: Computer Graphic Design 1 and instructor signature

Elective

Fee: \$20.00

This course concerns advanced artistic skills related to selling products and services, and stresses originality and presentation closely related to professional commercial art. This course focuses on implementing art elements and principles and their application to layout, design, typography, and illustration. Students will use industry standard software (Adobe) as well as other tools to create original design projects and business packages. Students will create a digital portfolio of their work. If credit for the level 1 class was earned through an online class (or other means), the student will need to have instructor approval and/or portfolio review to be eligible for an advanced level course.

Course # 020025

Length: 1 semester

Credits: 1 – Arts or Unrestricted**Digital Media****Grade: 9-12**

Prerequisite: None

Fee:

Students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment. This course is part of CTE's Secondary Pathways and aligns to Digital Media & Communications Pathway Level 1.

II**Course # 109085 A/B****Length: 1 Year**

Credits: 2 – Unrestricted Elective

Digital Photography 1**Grade: 9-12**

Prerequisite: None

Elective

Fee: \$25.00

Note: A point-n-shoot camera is recommended but is not required.

Using computers and state of the art software, students will learn how to plan and produce photographic compositions that demonstrate an understanding of light, composition, color, and visual impact. Students will be introduced to the history of photography and visual communication. A final web-based portfolio of images may be produced for exhibition. This is a foundation course for both college and non-college bound students and provides a background for further work in photography and digital media. Notebook required.

II**Course # 026050****Length: 1 semester**

Credits: 1 – Arts or Unrestricted

Digital Photography 2

Grade: 9-12

Prerequisite: Grade of "C" or better in Digital Photo 1 recommended

Elective Fee: \$25.00

Note: It is recommended that students provide a DSLR camera but not required.

This course will expand on the themes covered in Digital Photo I but with an emphasis on expanding technical fluency and personal articulation. Various genres of fine art photography will be explored. Considerable weight will be placed

II**Course # 026055**

Length: 1 semester

Credits: 1 – Arts or Unrestricted

on the final portfolio. Notebook required.

Digital Photography 3

Course # 026060

Grade: 10-12

Length: 1 semester

Prerequisite: Digital Photography 2 and instructor signature

Credits: 1 – Arts or Unrestricted

Elective

Fee: \$25.00

Note: It is recommended that students provide a DSLR camera but not required

This course is designed to prepare students for professional and academic careers in fine art photography. The emphasis will be on continued growth as a photographer, critiquing, printing for exhibition and portfolio.

Considerable weight will be placed on an extended body of work, formally presented.

Notes: Students will be required to curate an end of the semester individual or group exhibition which includes but is not limited to: mounting, matting, hanging artworks, designing and delivering student exhibition invitations and creating artist statements. Students will coordinate a reception to show their work and receive feedback from a large audience.

Filmmaking (R)

■

Course # 191104 A/B

Grade: 10 -12

Length: 1 year

Prerequisite: None

Credits: 2 – Fine Arts

Fee: \$40.00

Students will learn how to use video editing software to create, edit, and save movies. By creating movies using digital video clips, digital photos and music, students will demonstrate their learning of the basics of shooting good video, capturing video from a camera to a computer, creating movies for the web, and crating a finished product. This course is part of CTE's Secondary Pathways and aligns to Digital Media & Communications Level 2 and 3.

Foundations of Design, Multimedia Arts, and Digital Communication ■

Course # 109060 A/B

Grade: 9-12

Length: 1 year

Prerequisite: None

Credits: 2 – Unrestricted Elective

Fee: \$50.00

NOTE: This course is listed in Infinite Campus as Found. Des, Multi Med Arts, Dig Com.

Students are introduced to the variety of programs and occupations in the arts, audio/video technology, and communications systems including, but not limited to: technical theatre, film production, broadcasting, and digital media but will focus on the basics of film editing. 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.

Independent Study-Special Topics

Course # 191040

Grade: 11-12

Length: 1 semester

Prerequisite: 3 semesters of digital media courses and

Credits: 1 – Unrestricted Elective
instructor signature

This course will allow the advanced student to pursue specialized methods and techniques beyond the standard course offerings. Designed cooperatively by student and faculty advisors, emphasis will be on developing a personal style resulting in a body of professional quality work. Research and writing are integral components for this course. Students whose materials requirements exceed the standard fee will need to provide their own additional materials.

Television Production

■

Course # 109090 A/B

Grade: 10-12

Length: 1 year

Prerequisite: Digital Media, Ports Broadcasting, KDET TV Live,

Credits: 2 – Unrestricted Elective

Prior Experience and / or Teacher Approval

Fee: \$40.00

Students will learn the essential components of TV broadcast production, including the use of microphones, cameras, video tape recorder-editors, switchers and lighting equipment. Students will be introduced to the basics of editing and chroma key (blue screen) techniques. They will explore the role of TV producers, who work behind the camera, putting together the different elements of the broadcast and making sure that everything works

together smoothly, and gain practical experience producing their own video projects in the studio. This course is part of CTE's Secondary Pathways and aligns to Technical Theatre/Theatre Design and Technology Level 2.

Work Based Learning in Digital Media

Grades: 11-12

Prerequisite: None

Fee:

Course # 109070

Length: 1

Credits: – Unrestricted Elective

This course is designed to prepare students to enter the workforce through on-the-job training in the form of a work-based learning experience and may be combined with class instruction. Students will build on prior knowledge and skills in the program of study aligned to their career and academic plan to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education. Students will have the opportunity to develop skills in supervised practical experience on the job or in a classroom-based job environment. A personalized learning plan is a requirement of this course. This course is part of CTE's Secondary Pathways and aligns with Digital Media & Communications Pathway level 4.

Engineering Technology

Aviation

✿ Introduction to Aviation and Aerospace II

Grades: 9-12

Prerequisite: Introduction to Engineering Design or instructor approval

Elective May Fee: \$10.00; Additional expense may be incurred, as chosen, be taken in conjunction with H for extended individual projects.

Aerospace Engineering for the 24-25 school year Introduction to Aviation and Aerospace is an introduction to the aviation and aerospace industry and provides an entry level examination of the Aviation career opportunities. Students will explore the concepts and principles of Aviation and delve into general practices of the aerospace field. Areas of study are aviation history, pilot training, airplane structure, engines, basic aerodynamics, flight environment, airports, aviation weather, and navigation. In addition, the course exposes the student to the history of manned space flight.

Course # 108420 A/B

Length: 1 year

Credits: 2 – Unrestricted

✿ Honors Aerospace Engineering (AE) II

Grades: 10-12

Prerequisite: Introduction to Aviation and Aerospace or instructor approval

Fee: \$20.00; Additional expense may be incurred, as chosen, for extended individual projects

Aerospace Engineering explores the evolution of flight, navigation and control, flight fundamentals, aerospace materials, propulsion, space travel, and orbital mechanics. In addition, this course presents alternative applications for aerospace engineering concepts. Students analyze, design, and build aerospace systems. They apply knowledge gained throughout the course in a final presentation about the future of the industry and their professional goals. Aerospace engineers transform the dream of flight into vehicles that ignite our imagination! Notes: This course is a PLTW specialty course. Students in the Aviation Pathway will take this class to learn about aerodynamics and aviation sciences. In this course, students may earn UCCS credit.

Course # 108405 A/B

Length: 1 year

Credits: 2 – Unrestricted Elective

✿ Principles of Flight II

Grades:

Prerequisite: Introduction to Aviation and Aerospace or instructor approval

Fee: \$10.00

Principles of Flight builds on the fundamental knowledge and skills learned in introduction to Aerospace while teaching students the essential competencies needed for flight under normal conditions. Upon completion of this course, proficient students will be able to apply knowledge, skills, and procedures in a variety of simulated flight environments. Moreover, students who complete this course will have the opportunity to move on to advanced study in Advanced Flight, where they will continue to prepare for the FAA Private Pilot written exam. This course is part of CTE's Secondary Pathways and aligns to Aviation Flight Pathway Level 3.

Course # 108407 A/B

Length: 1 year

Credits: 2 – Unrestricted Elective

✿ Honors Advanced Flight II

Grades:

Prerequisite: Principles of Flight

Fee: \$10.00

Advanced Flight is designed for students aspiring to become pilots and prepares them for careers in aviation. The course provides rigorous instruction to prepare students for the Federal Aviation Administration (FAA) Private Pilot written exam and the FAA Part 107 Drone Licensure Certification. Students will learn troubleshooting and diagnostic techniques used by pilots and other aviation personnel to assess and resolve malfunctions, make adjustments in hazardous weather conditions, and perform critical emergency procedures. A strong emphasis is placed on flight safety and developing sound judgment—referred to as “judgment training”—in these challenging situations. This course is part of CTE's Secondary Pathways and aligns to Aviation Flight Pathway Level 4.

Course # 108410 A/B

Length: 1 year

Credits: 2 – Unrestricted Elective

Work Based Learning in Aviation

Grades: 11-12

Prerequisite:

Fee:

Course # 108470

Length: 1

Credits: – Unrestricted Elective

This course is designed to prepare students to enter the workforce through on-the-job training in the form of a work-based learning experience and may be combined with class instruction. Students will build on prior knowledge and skills in the program of study aligned to their career and academic plan to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education. Students will have the opportunity to develop skills in supervised practical experience on the job or in a classroom-based job environment. A personalized learning plan is a requirement of this course. This course is part of CTE's Secondary Pathways and aligns to Aviation Flight Pathway Level 4.



Engineering Curriculum – Project Lead The Way pathway:

This is a four-year set of courses which, when combined with mathematics students to the scope, rigor and discipline of engineering prior to entering college. Even students not intending to pursue further formal education in Engineering will still benefit greatly from the knowledge and logical thought processes that result from taking some or all the courses provided in the curriculum. Some of these courses can be used for core elective credits. Project Lead The Way is a national curriculum project, partnering with schools, industry and higher education institutions to increase the number and quality of engineers graduating from high school.

9 th Grade	10 th Grade	11 th Grade	12 th Grade
Foundational Courses			
Honors Introduction to Engineering Design (IED)	Honors Principles of Engineering (POE)	Honors Civil Engineering and Principals Architecture (CEA)	Capstone Course Honors Engineering Design and Development (EDD)
Specialty courses to be taken in conjunction with a foundation course 10th-12th Grade	Honors Aerospace Engineering (AE)		
			Honors Computer Integrated Manufacturing (CIM)
	Honors Computer Science (CSP)	Honors Digital Electronics (DE)	

⚙️ Honors Introduction to Engineering Design (IED)*

Grades: 9-12

Prerequisite: Currently enrolled in Algebra I or higher

Fee: \$10.00; Additional expense may be necessary, as chosen for individualized projects.

Introduction to Engineering Design students are introduced to the engineering design process, applying math, science, and engineering standards to identify and design solutions to a variety of real problems. Students work both individually and in collaborative teams to develop and document design solutions using engineering notebooks and 3D modeling software. The course develops problem solving skills through hands-on and computer based projects. Students will learn Computer Aided Design (CAD) to create, analyze and evaluate product design. Engineers make a world of difference! Are you ready to design the future?

Notes: This is a foundational course. In this course students may earn UCCS credit and an Industry CAD Certification.

Course # 103036 A/B

Length: 1 year

Credits: 2 – Unrestricted Elective

⚙️ Honors Principles of Engineering (POE)* ■■

Grades: 10-12

Prerequisite: Introduction to Engineering Design or instructor approval

Fee: \$15.00; Additional expense may be necessary, as chosen for individualized projects

Principles of Engineering is a broad-based survey course designed to help students understand the field of engineering and engineering technology and its career possibilities. Students will develop engineering problem solving skills that are involved in post-secondary education programs and engineering careers. In this course students will explore how modern engineers are helping improve the world through diverse engineering fields such as product design, robotics, mechanical design, infrastructure, and sustainability. Learn the principles of engineering as well as the cutting-edge tools to robotics, programming, and prototyping that engineers are using to solve problems today and for the future!

Notes: This is a foundational course. This course is the recommended second core course in the Engineering Pathway. In this course, students may earn UCCS credit.

Course # 103051 A/B

Length: 1 year

Credits: 2 – Core Elective (Math)

- ✿Honors Aerospace Engineering (AE)* ■■** **Course # 108405 A/B**
 Grades: 10-12 Length: 1 year
 Prerequisite: Introduction to Engineering Design, Credits: 2 – Unrestricted Elective
 Intro to Aviation and Aerospace Science (may be taken as concurrently
 or as a prerequisite for the 24-25 school year), or instructor approval
 Fee: \$20.00; Additional expense may be incurred, as chosen, for extended individual projects
 Aerospace Engineering explores the evolution of flight, navigation and control, flight fundamentals, aerospace
 materials, propulsion, space travel, and orbital mechanics. In addition, this course presents alternative applications
 for aerospace engineering concepts. Students analyze, design, and build aerospace systems. They apply
 knowledge gained throughout the course in a final presentation about the future of the industry and their
 professional goals. Aerospace engineers transform the dream of flight into vehicles that ignite our imagination!
Notes: This course is a specialty course. In this course, students may earn UCCS credit.
- ✿Honors Civil Engineering and Architecture (CEA)* ■■** **Course # 103016 A/B**
 Grades: 10-12 Length: 1 year
 Prerequisite: Introduction to Engineering Design or instructor approval Credits: 2 – Unrestricted Elective
 Fee: \$10.00
 Civil Engineering and Architecture is a study of design and drafting as related to residential and commercial
 construction. Improving our world through thoughtful building design and development! Students learn the
 fundamentals of building design, site design, and development. Students apply math, science, and standard
 engineering practices to design both residential and commercial projects and document their work using 3D
 architectural design software. You can change the world, one project at a time.
*Notes: This course is a specialty course. In this course, students may earn UCCS credit and an Industry CAD
 certification.*
- ✿Honors Computer Integrated Manufacturing (CIM)* ■■** **Course # 169001 A/B**
 Grades: 10-12 Length: 1 year
 Prerequisite: Introduction to Engineering Design or instructor approval Credits: 2 – Unrestricted Elective
 Computer Integrated Manufacturing applies principles of robotics and automation. Manufacturing transforms ideas
 into products. This course provides an opportunity for students to develop a better understanding of this innovative
 and exciting industry. Students learn about manufacturing processes, product design, robotics, and automation.
 Students develop their knowledge of Computer Aided Design and Manufacturing to produce products using a
 Computer Numerical Controlled (CNC) mill. Students apply the knowledge and skills gained in this course as they
 collaborate to design, build, and program factory system models. Manufacturing provides products we use daily.
 How can you become a part of this exciting industry!
*Notes: This course is a specialty course. In this course, students may earn UCCS credit and an Industry CAD
 certification.*
- ✿Honors Computer Science Principles (CSP) ■■** **Course # 160020 A/B**
 Grades: 10-12 Length: 1 year
 Prerequisite: Introduction to Engineering Design or instructor approval Credits: 2 – Unrestricted Elective
 Fee: \$10.00
 Computer Science Principles students develop the in-demand computer science skills critical to thrive in any of
 today's and tomorrow's careers. Programming in Python, this course promotes computational thinking and coding
 fundamentals and introduces computational tools that foster creativity. It aims to build students' awareness of the
 tremendous demand for computer scientists and those who have computational thinking skills and engages
 students to consider issues raised by the impact of computing on society. Each unit in the course focuses on one
 or more computer science specific career paths. A basic understanding of programming is applicable in many
 engineering fields, not just Computer Science. This course is for those wanting a career in computer science or
 seeking to learn how to code to benefit their future in engineering pathways.
*Notes: This course is a specialty course. In this course, students may earn UCCS credit or apply their knowledge
 towards the AP computer science exam.*
- ✿Honors Digital Electronics (DE)* ■■** **Course # 104009 A/B**
 Grades: 10-12 Length: 1 year
 Prerequisite: Introduction to Engineering Design or instructor approval Credits: 2 – Unrestricted Elective

Fee: \$20.00

Digital Electronics opens doors to understanding electronics and foundations in circuit design. Digital Electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, and hi definition televisions. Students learn the digital circuit design process to create circuits and present solutions that can improve people's lives. A basic understanding of digital logic is essential for applications in most engineering fields, not just Electrical Engineering. Students will receive hands-on experiences designing and building real world electronic circuits. Learn how advances in foundational electronic components and digital circuit design process have transformed the world around you.

Notes: This course is a specialty course. In this course, students may earn UCCS credit.

⊗Honors Engineering Design and Development (EDD)*

Grades: 12

Prerequisite: Previous PLTW courses of IED and POE or

Fee: \$20.00

This is the Pathways capstone course, designed for expansion and in-depth study in Engineering. It is an engineering project course in which students work in teams to research, design and construct a solution to an open-ended engineering problem. Students apply principles developed in preceding courses. Students must present progress reports, submit a final written report and defend their solutions to a panel of outside reviewers at the end of the school year.

Notes: This is the recommended capstone (final) course is a PLTW Engineering Pathway. In this course, students may earn UCCS credit.

Course # 103041 A/B

Length: 1 year

Credits: 2 – Unrestricted Elective
instructor permission

⊗Honors PLTW Adv Manufacturing*

Grades: 12

Prerequisite: Honors Introduction to Aviation and Aerospace, Honors Aerospace
Engineering

Fee: \$20.00

Explore the future of manufacturing through a dynamic blend of robotics, artificial intelligence, and smart technology to solve real-world challenges. Students learn how data, automation, and digital tools are transforming industries in the context of semiconductor fabrication and how they can be part of this industrial revolution. Through hands-on projects and cutting-edge technology, students gain the skills they need to thrive in tomorrow's high-tech workforce.

Course # 105000 A/B

Length: 1 year

Credits: 2 – Unrestricted Elective

Work Based Learning in Engineering

Grades: 11-12

Prerequisite: None

Fee:

This course is designed to prepare students to enter the workforce through on-the-job training in the form of a work-based learning experience and may be combined with class instruction. Students will build on prior knowledge and skills in the program of study aligned to their career and academic plan to further develop and apply employability and technical skills that prepare them for success in future career and postsecondary education. Students will have the opportunity to develop skills in supervised practical experience on the job or in a classroom-based job environment. A personalized learning plan is a requirement of this course. This course is part of CTE's Secondary Pathways, and aligns with Engineering & Technology Pathway Level 4.

Course # 100070

Length: 1

Credits: – Unrestricted Elective

English

Honors/PreAP English Program

Honors classes are for students who have demonstrated the wish to accept the challenge of work at a deeper level in English. Students taking Honors English will be expected to work at a high level of competence and to challenge themselves. Honors classes feature a variety of instructional strategies; students will receive instruction in critical thinking, oral discourse, group learning, leadership skills, technology education, and the humanities. Instructors will attempt to recognize areas of student interest and offer the opportunity for students to pursue programs of study in those areas within the context of the course curriculum. Students will find that they are challenged intellectually and have the opportunity to pursue their own interests as well as regular course content. Writing is a focus in these classes.

Important Information for Honors English/PreAP Applicants

Recommendations for Honors English are based on performance in current English class, teacher recommendations, and standardized test scores. It is strongly recommended that students who are interested in pursuing AP or honors courses have earned a C or better in their prerequisite English courses to ensure that they are prepared for the rigor of these advanced courses. If students arrive during the school year, consideration for Honors is based on transfer English grade and available space in Honors classes.

Seal of Biliteracy

Students who earn a B or better in four consecutive years of a high school World Language and four consecutive years of their high school English classes will be eligible for a Seal of Biliteracy.

English – 8 credits (Grade-specific English courses only. English electives do not count toward graduation requirements.)

9th Grade	10th Grade	11th Grade	12th Grade
Freshmen Lit and Comp	World Lit and Comp	American Lit and Comp	Composition and Literature
Pre-AP Lit and Comp	Pre-AP World Lit and Comp	AP Language and Comp	AP Literature and Comp
Honors AI Freshmen Lit and Comp	Honors AI World Lit and Comp	Honors Art American Lit and Comp	H Senior Art Lit & Comp

Freshman Literature and Composition



Course # 053100 A/B

Grade: 9

Length: 1 year

Prerequisite: None

Credits: 2 – English

This course emphasizes development of essential skills in reading, writing, speaking, listening, and vocabulary.

Notes: Coursework includes study in the areas of grammar, vocabulary, and spelling to enhance individual writing skills. A major emphasis of this course will be on students' producing clear, concise, and cogent writing. Through the study of literature, the student will explore different genres—the short story, nonfiction, poetry, drama, and selected novels. Writing, oral presentations, projects, discussions, and tests will be used as methods of evaluation.

Honors Art Integrated Freshman Lit and Composition*



Course # 053107 A/B

Grade: 9

Length: 1 year

Prerequisites: None

Credits: 2 – English

Using critical thinking, information literacy, invention, collaboration and self-direction, Honors Art Integrated Freshmen Lit and Comp is designed to engage students in higher order thinking skills and prepare them for the literature-based curricula in subsequent Honors Arts Integrated classes. Using an arts-infused curriculum, students will work collaboratively in an inquiry-based classroom to become better readers, writers and students.

Note: It is strongly suggested that students have earned a C or above in their previous English class. Students will be expected to engage in outside-of-class reading.

Pre-AP Literature and Composition*

Grade: 9

Prerequisite: None

This accelerated course is designed to engage students in higher order thinking skills and prepare them for the literature-based curricula in subsequent honors and AP classes.

Notes: Undertaking a course of study that goes beyond the scope of the Freshman Literature and Composition class, students will focus on preparation for analytical writing in this and future honors classes, grammar and usage, vocabulary preparation for class work and standardized tests, and study skills. Course content includes an emphasis on writing, literary analysis, oral presentations, group and individual work, and class discussion. It is strongly suggested that students have earned a C or above in their previous English class. Students will be expected to engage in outside-of-class reading.

Course # 053109 A/B

Length: 1 year

Credits: 2 – English

World Literature and Composition**II**

Grade: 10

Prerequisite: Any Freshman Literature and Composition

This course emphasizes the study of world literature and uses that study as a vehicle for refining vocabulary, grammar, writing and oral communication skills.

Notes: Students will examine literary genres including the short story, poetry, nonfiction, the novel, and drama in selections ranging from traditional classics to contemporary world literature. Students' responses will involve oral presentations and evaluation of literature as it relates to their lives. The student will learn how to write several types of essays throughout the year: a personal narrative essay, an independent research paper using technological and library skills, and a literary analysis essay. It is strongly suggested that students have earned a C or above in their previous English class.

Course # 053115 A/B

Length: 1 year

Credits: 2 – English

Honors Art Integrated World Lit and Composition***II**

Grade: 10

Prerequisite: Any Freshman Literature and Composition

Using critical thinking, information literacy, invention, collaboration and self-direction, Honors Arts Integrated World Lit and Comp is an accelerated course designed to engage students in higher order thinking skills and prepare them for the literature-based curricula in subsequent honors and AP classes. The students will become familiar with the general periods of world literature through representative significant works.

Notes: It is strongly suggested that students have earned a C or above in their previous English class. Significant outside of class reading, writing, and tasks will be expected in this course.

Course # 053122 A/B

Length: 1 year

Credits: 2 - English

Pre-AP English 2***II**

Grade: 10

Recommended Prerequisite: Pre-AP Freshman Literature and Composition

This accelerated course is designed to engage students in higher order thinking skills and prepare them for the literature-based curricula in subsequent honors and AP classes. The students will become familiar with the general periods of world literature through representative significant works.

Notes: This class offers a study of significant, representative literature from the ancient civilizations to the 20th century. This course will examine world culture and analyze man's relationship to man, to himself, and to the universe as revealed through the world's great literature. A variety of instructional strategies will challenge the students to think critically and analytically. Both creative and expository writing are emphasized with a specific study of and focus on the analytical. Students will experience an introduction to AP class and exam elements such as close reading, timed writing, and timed multiple choice tests in preparation for future possible AP courses. It is strongly suggested that students have earned a C or above in their previous English class. Significant outside of class reading and writing will be expected in this course.

Course # 053124 A/B

Length: 1 year

Credits: 2 – English

American Literature and Composition**II**

Grade: 11

Prerequisite: Any World Literature and Composition

This course emphasizes the study of American literature and uses that study as a vehicle for refining vocabulary, grammar, writing and oral communication skills.

Course # 053145 A/B

Length: 1 year

Credits: 2 – English

Notes: Students will focus on their skills in reading, writing, speaking, and listening. They should expect to read outside of class, write rhetorical and literary analysis essays, and speak in front of the class. Additionally, students will be exposed to a variety of American texts to better understand American history and culture.

Honors American Literature and Composition* ■■

Grade: 11

Recommended Prerequisites: Honors World Literature and Comp. or PreAP

This accelerated course is designed to engage students in higher order thinking skills and prepare them for the literature-based curricula in subsequent honors and AP classes. The students will become familiar with the general periods of American literature through representative significant works.

Notes: Students can expect to write a variety of essays, including rhetorical and literary analysis. Additionally, they will be expected to participate in individual and group projects that stress time management, self-discipline, self-direction, and creative thinking skills. Students should expect to spend substantial time reading/writing outside of class and should be prepared to demonstrate their skills in speaking and listening throughout the school year. It is strongly suggested that students have earned a C or above in their previous English class.

Course # 053150 A/B

Length: 1 year

Credits: 2 – English

AP English Language and Composition* ■■

Grade: 11

Recommended Prerequisites: Pre AP/Honors Arts Literature and Comp.

The AP Examination fee is \$115.00

At the conclusion of this course students will be recommended to take the AP English Language and Composition examination for potential college credit. This is a **college-level course** that emphasizes a study of rhetoric and nonfiction writing and analysis.

Notes: This class is a strong adjunct for students taking other AP classes such as AP US History. The rhetorical strategies emphasized center on “the language of power,” and the class is an ideal analytical experience preliminary to advanced study of law, mathematics, science, technology, politics, and literature. It is strongly suggested that students have earned a C or above in their previous English class.

Course # 053175 A/B

Length: 1 year

Credits: 2 – English

Composition and Literature 4 ■■

Grade: 12

Prerequisite: American Literature and Composition

This class prepares seniors for freshman college English composition courses and introduces a spectrum of traditionally canonical literature with which college-bound students are expected to be familiar. Students will write analyses of literature as well as a variety of essays including narration, description, persuasion and exposition.

Notes: The student will write a variety of essays and literary forms with an emphasis on a variety of texts.

Course # 050025 A/B

Length: 1 year

Credits: 2 – English

Honors Senior Composition and Literature* ■■

Grade: 12

Prerequisite: Honors American Literature and Composition

This class moves at an accelerated pace through a study of literature. Using models from college composition and literature tests, the course prepares students for post-secondary reading and writing expectations and study.

Notes: In addition to writing and revising formal papers devoted to research, cause and effect, definition, persuasion, and process analysis, students will be expected to express themselves in discussion and individual presentations. In addition to extensive individual and group work, students should expect to read works of literature, view films and read non-fiction essays as models for their own work. It is strongly suggested that students have earned a C or above in their previous English class

Course # 053180 A/B

Length: 1 year

Credits: 2 – English

AP English Literature and Composition* ■■

Grade: 12

Prerequisites: Honors American Lit & Comp or AP Lang & Comp

The AP Examination fee is \$115.00.

At the conclusion of this course students will be expected to take the Advanced Placement English Literature and Composition exam for potential college credit. AP courses are not college preparatory – they

Course # 054000 A/B

Length: 1 year

Credits: 2 – English

are considered **college-level courses**. Students engage in careful reading and critical analysis of imaginative literature from a variety of perspectives and for a variety of audiences.

Notes: Students will analyze literature from a variety of perspectives and write about it for a variety of audiences. Studying significant literature from a variety of cultures and time periods as a foundation, the student will learn the tools and techniques of critical and analytical thinking, reading and writing. The course involves the study of the four genres of literature: short story, drama, novel and poetry. College level materials and textbooks will be used. It is strongly suggested that students have earned a C or above in their previous English class.

Contemporary Literature (R)

■

Course # 053200 A/B

Grade: 11-12

Length: 1 semester

Prerequisite: None

Credits: 1 – English

Through this course, students will develop an understanding of trends in fiction, drama, film, personal essay and poetry. Reading materials will be selected from a variety of print genres. Analysis and class discussion of texts and writing about social issues will be emphasized as well as practical applications of the English language.

Creative Writing 1

■

Course # 054200

Grade: 9-12

Length: 1 semester

Prerequisite: None

Credits: 1 – Core Elective

In this course, students will explore many writing genres. The goal of the course is to help students identify quality writing and to realize the importance of accurately observing and interpreting their surroundings.

Notes: This course promotes writing as a means of students discovering something about themselves and others that is both insightful and unique. Writing genres that may be addressed include personal experience narratives, fictional narratives, poetry, and response journals. Techniques of writing will also be addressed. Emphasis will be on maintaining a portfolio and on preparing selected pieces for publication.

Creative Writing 2

■

Course # 054205

Grade: 9-12

Length: 1 semester

Prerequisite: Grade of "C" or better in Creative Writing 1 recommended

Credits: 1 – Core Elective

After being exposed to the fundamentals of creative writing, students will delve deeper into techniques that make writing engaging for a specific purpose, audience, format, and tone. Throughout the semester, students will create a capstone project demonstrating their unique skills and passions. Then students will learn to market and display their work to an authentic audience, replicating real-world publishing.

English Linguistics & Academic Language (R)

Course #

Grade: 9-12

Length: 1 year

Prerequisite: None

Credits: 1 – Core Elective

Fee: \$80.00

This course is an introduction to the nature, history, structure, and use of English as written language. It provides students, including those who demonstrate characteristics of dyslexia, explicit reading, writing, and spelling instruction to support successful navigation of academic demands across content areas. Instruction will focus on English linguistics and academic language including morphology, etymology, grammar, and vocabulary.

Enrichment Reading

■

Course # 051100

Grade: 9-12

Length: 1 semester

Prerequisite: None

Credits: 1 – Core Elective

Students in this class must enjoy reading and read at or above grade level. In addition to time allowed in class for sustained silent reading of books of choice, students will participate in daily group activities. Students' books of choice must still be deemed appropriate by the teacher.

Film as Literature

■

Course # 053900

Grade: 9-12

Length: 1 semester

Prerequisite: None

Credits: 1 – Core Elective

Through this course, students will explore different genres of film while learning how filmmakers use literary elements in their craft. Students will create short films of their own within each genre to allow them to apply their learning in practical and hands-on ways.

Notes: Students will explore some classic and other, lesser known, films. They will learn to identify symbolism, theme, images, and other aspects of literature through a variety of techniques. Students will engage in regular projects and assignments that demonstrate their understanding of the language of film and how directors, actors, and editors make meaning using cinematic techniques.

Journalism (R)

■

Course # 054305 A/B

Grade: 10-12

Length: 1 year

Prerequisite: Students are accepted only after an application process

Credits: 2 – Core Elective

Students will learn aspects of journalistic writing and production with emphasis on copy, design and photography. Students will practice interviewing techniques, write headlines and sub heads, and use the inverted pyramid format. Importance of editing and proofreading will be stressed.

Notes: This class is responsible for the production of the school's student newspaper. Students must be able to meet deadlines and be comfortable with the writing process.

Mythology

■

Course # 053500

Grade: 9-12

Length: 1 semester

Prerequisite: None

Credits: 1 – Core Elective

Students will study connections between classical myths and myths of modern culture.

Notes: This course starts with an examination of creation mythology and explores the mythologies of Greece, Rome, Europe, North American, and others, and then proceeds to explore mythology's role in modern life. Students pursue individual and class projects that help establish a connection between mythology and their personal lives, making connections in their personal and academic pursuits.

Performance and Communications

■

Course # 109062 A/B

Grade: 10-12

Length: 1 year

Prerequisite: Film as Literature

Credits: 2 – Core Elective

Students will be introduced to methods of performance and performance-dependent careers. Though performance is a significant part of this course, further topics include financial awareness, promotion and marketing, and management and leadership. This course is part of CTE's Secondary Pathways, and aligns to Technical Theatre/Theatre Design and Technology Level 2.

Speech

■

Course # 055000

Grade: 9-12

Length: 1 semester

Prerequisite: None

Credits: 1 – Core Elective

This course includes writing and delivering speeches for a variety of purposes. Students will develop communication and public speaking skills including audience analysis, organization, content and delivery.

Notes: This course includes writing and delivering speeches for a variety of purposes. This course will help develop communication and public speaking skills. Students will gain confidence and experience in speaking in front of a group. Students will learn how to make both their verbal and nonverbal communication more effective. The learner will gain proficiency in a variety of speech forms, i.e. introductory, demonstrative, informative, persuasive, impromptu, motivational, and reflective speaking.

Yearbook (R)

Course # 054900 A/B

Grade: 10-12

Length: 1 year

Prerequisite: Students are accepted only after an application process

Credits: 2 – Core Elective

This class is responsible for the production of the school's yearbook. Students will learn various types of software involved in publishing as well as basic principles of journalism, publishing, and layout design.

Notes: Students on the yearbook staff must exhibit self-discipline, hard work (even outside the actual class period), an attention to detail and a desire to work with others.

Math

Mathematics Department Course Progressions

Math – Must take 6 credits (Algebra and Geometry are a required graduation requirement)

Current Enrolled Course	Course Options for the following school year
8 th Grade Math Course (Linear Algebra	Applied Geometry* or Algebra 1
Algebra 1	Applied Geometry* or Geometry
Applied Geometry	Consumer Math** or Algebra 1*
Geometry	Algebra 2 or Honors Algebra 2*
Algebra 2	Algebra 3 or Statistics
Honors Algebra 2	Algebra 3 or Statistics or AP precalculus* or AP Statistics**
Algebra 3	Statistics or AP Precalculus* or AP Statistics*
Statistics	AP Statistics***
AP Precalculus	AP Statistics** or AP Calculus AB or AP Calculus BC
AP Calculus AB	AP Statistics** or AP Calculus BC
AP Calculus BC	AP Statistics** or Calculus 3 Multivariable Calculus

Please see course descriptions in the AAHS course guide for prerequisite information.

*Require math teacher approval and do not represent the typical Sequence of classes.

**Notes courses intended for Seniors or those students who will no longer be taking HS mathematics courses.

Applied Geometry



Course # 116000 A/B

Grade: 9-12

Length: 1 year

Prerequisite: Teacher recommendation

Credits: 2 – Math Geometry

Basic geometric concepts are introduced with the focus on strengthening computational and problem-solving skills. Topics in two-dimensional and three-dimensional figures including lines, planes, angles, polygons, coordinate geometry, circles, and polyhedrons will be presented. Applications integrate algebraic concepts and use inductive and deductive reasoning to develop geometric proofs. Integrating other fields of study into real-world applications will be emphasized as it helps create meaning for students.

Note: This course satisfies the District 20 graduation requirement for Geometry.

Algebra 1



Course # 111100 A/B

Grade: 9-12

Length: 1 year

Prerequisite: Linear Algebra, Pre-Algebra, or equivalent

Credits: 2 -Algebra

Special materials: Graphing Calculator Required

Algebra 1 is required for graduation

Topics in the real number system including working with polynomial, rational, and radical expressions; solving linear and quadratic equations; and exploring linear, quadratic, and exponential functions will be presented. Further topics explored include systems of equations, systems of inequalities, and basic probability and statistics. Problems are often linked to real-world applications and graphing, vocabulary, and technical writing will be emphasized.

Geometry



Course # 116010 A/B

Grade: 9-12

Length: 1 year

Prerequisite: Algebra 1 or equivalent

Credits: 2 – Geometry

Geometry is required for graduation

Topics in two-dimensional and three-dimensional figures including lines, planes, angles, polygons, coordinate geometry, circles, and polyhedrons will be presented. Applications integrate algebraic concepts and use inductive and deductive reasoning to develop geometric proofs. Problems are often linked to real-world applications and graphing, vocabulary, and technical writing will be emphasized.

Consumer Math

Grade: 11-12

Prerequisite: Algebra 1 (no credit for Algebra 2) and teacher recommendation

Consumer Math is a course designed to reinforce and integrate basic computational skills with real-life skills needed to become a careful and competent consumer. Topics include purchasing goods and services, investing money, checking and savings accounts, taxes, and dealing with the everyday mathematics of today's society.

Course # 115100 A/B

Length: 1 year

Credits: 2 – Math

Algebra 2**II**

Grade: 10-12

Prerequisite: Algebra 1 AND Geometry or equivalent

Special materials: Graphing Calculator: TI-84 family calculator required

Topics consisting of linear, quadratic and exponential functions and trigonometric ratios will be further developed.

Students will interpret, analyze, model, and transform polynomial, rational, trigonometric, and radical functions.

Students will solve and justify solutions for polynomial functions including real and complex solutions. Students will solve exponential and logarithmic functions using appropriate technology. Students will also summarize, represent, and interpret data, including Personal Financial Literacy topics. Students who are mathematically proficient will demonstrate characteristics defined by the Standards for Mathematical Practice.

Course # 111200 A/B

Length: 1 year

Credits: 2 – Math

Honors Algebra 2***II**

Grade: 9-11

Prerequisite: Algebra 1 AND Geometry or equivalent and teacher

Special materials: Graphing Calculator: TI-84 family calculator required

Topics in previous algebra courses are built upon, and the additional topics of polynomials, rational, exponential, and logarithmic functions, as well as matrices, complex numbers, sequences and series, probability and statistics, and trigonometry are presented. Graphing calculators will be used to promote understanding of advanced concepts and develop graphical and numeric solutions. Problems are often linked to real-world applications and graphing, vocabulary, and technical writing will be emphasized. This course is designed to strengthen abstract reasoning and critical thinking skills. Strong performance in prerequisite courses is essential to meet the increased expectations.

Course # 111205 A/B

Length: 1 year

Credits: 2 – Math

Algebra 3**II**

Grade: 11-12

Prerequisite: Algebra 2 or equivalent and teacher recommendation

Special materials: Graphing Calculator: TI-84 family calculator required

Algebra 3 reviews and strengthens topics covered in Algebra 2. Further study in trigonometry, sequences and series, and conic sections prepares students for success in precalculus.

Course # 111300 A/B

Length: 1 year

Credits: 2 – Math

Statistics**II****117000 A/B**

Grade: 11-12

Prerequisite: Algebra 2, or equivalent and teacher recommendation

Special materials: Graphing Calculator: TI-84 family calculator required

Statistical concepts to construct simple surveys and experiments will be used to analyze data. Basic statistics covers the collection, organization and analysis of data.

Course #

Length: 1 year

Credits: 2 – Math

AP Statistics***II**

Grade: 12

Prerequisite: Algebra 3, or higher, and teacher recommendation

Special materials: Graphing Calculator: TI-84 family calculator required

The AP Examination fee is \$115.00.

At the conclusion of this course, students will be expected to take the Advanced Placement exam for potential college credit. AP Statistics is a course that covers topics related to the collection, organization, and analysis of data. Topics include descriptive statistics, probability, simulation, binomial and normal distributions, hypothesis testing, and statistical inference.

Course # 117005 A/B

Length: 1 year

Credits: 2 – Math

AP Precalculus***Course # 113190A A/B**

Grade: 11-12

Length: 1 year

Prerequisite: Honors Algebra 2 and teacher recommendation

Credits: 2 – Math

Special materials: Graphing Calculator: TI-84 family calculator required

The AP Examination fee is \$115.00.

At the conclusion of this course, students will be expected to take the Advanced Placement Precalculus exam for potential college credit. Students in AP Precalculus will focus on functions modeling dynamic phenomena. Students will develop and hone symbolic manipulation skills, including solving equations and manipulating expressions, and will learn that functions and their compositions, inverses, and representations, are useful for solving problems in mathematical and applied contexts. Students will apply the skills learned to situations that involve quantitative reasoning. Topics include polynomial, rational, exponential, logarithmic, trigonometric, polar and functions involving parameters, vectors, and matrices. These topics are foundational for careers in mathematics, physics, biology, health science, business, social science, and data science.

AP Calculus AB***Course # 113100 A/B**

Grade: 11-12

Length: 1 year

Prerequisite: AP Pre-Calculus and teacher recommendation

Credits: 2 – Math

Special materials: Graphing Calculator: TI-84 family calculator required

The AP Examination fee is \$115.00.

At the conclusion of this course, students will be expected to take the Advanced Placement Calculus AB exam for potential college credit. AP Calculus AB builds upon algebraic and geometric principles covered in Pre-Calculus.

Applications involve limits, differentiation, and integration tied to topics including related rates, graphical analysis, integral areas, and volumes of revolution.

AP Calculus BC***Course # 113200 A/B**

Grade: 11-12

Length: 1 year (Double-block

class)

Prerequisite: AP Pre-Calculus and teacher recommendation.

Credits: 4 – Math

Special materials: Graphing Calculator: TI-84 family calculator required

The AP Examination fee is \$115.00.

At the conclusion of this course, students will be expected to take the Advanced Placement Calculus BC exam for potential college credit. AP Calculus BC builds upon algebraic and geometric principles covered in Pre-Calculus. This course covers all of the topics in AP Calculus AB with further investigation into vectors, parametric equations, infinite series, and differential equations.

Notes: This course meets each day and is more extensive than AP Calculus AB.

Performing Arts

Air Academy’s Performing Arts Department has a rich tradition of excellence. All courses offered in the Performing Arts Department are elective courses that allow you to get involved and help you grow as a performer. These courses may be selected for elective credits. Performing Arts classes offer students opportunities to enjoy the arts, perform, grow and become enriched, better people for today’s world. Students must meet the competency level required for each course. Auditions are required for some classes. Many courses may be repeated for credit.

General Music Classes (table)

9 th – 12 th	10 th – 12 th	11 th – 12 th
Beginning Guitar	Beginning Music Theory	AP Music Theory
Advanced Guitar		
Music Technology		
Music Appreciation		

Instrumental Classes

9 th – 12 th
Jazz Ensemble (1 year)
Instrumental Ensembles
Chamber Orchestra (1 year)
String Orchestra (1 year)
Advanced Jazz Ensemble (1 year)
Marching Band
Symphonic Band
Color Guard
Percussion Techniques
Wind Ensemble

Vocal Classes (all are year long classes)

9 th – 12 th
Festival Singers
Chamber Singers
Concert Choir
A Capella Ensemble
Jazz Choir
Treble Choir
Tenor Bass Choir

Beginning Guitar



Course # 125000

Grade: 9-12

Length: 1 semester

Prerequisite: None

Credits: 1 – Arts or Unrestricted

Elective Fee: \$20.00

Must provide own acoustic guitar (some guitars are available for rent)

This course is designed for beginning guitar students. The course will teach the fundamentals of music reading and beginning guitar techniques. Students will improve their understanding of music as they study a variety of musical styles and music from different cultures. Students must purchase the class text and have their own acoustic guitar.

Advanced Guitar (R)



Course # 125010

Grade: 9-12

Length: 1 semester

Prerequisite: Beginning Guitar or audition (to meet competency level)

Credits: 1 – Arts or Unrestricted

Elective Fee: \$20.00

Acoustic Guitar is mandatory

This class is for students who have mastered the basics of guitar playing and music reading. New challenges in playing advanced level musical literature in a variety of styles are explored as an individual player and in ensembles. Students may choose to take this course for more than one semester as they continue to develop their skills. Students must purchase required texts and have their own acoustic guitar.

Music Appreciation

■

Course # 127000

Grade: 9-12

Length: 1 semester

Prerequisite: None

Credits: 1 – Arts or Unrestricted

Elective

Music Appreciation is an exploratory music class that covers many types of music, including, but not limited to, Baroque, Classical, Jazz, Latin and Rock styles. Students in this class have the opportunity to listen to music, watch videos, and perform presentations in class, on music that they enjoy. This class is open to anyone who likes music and desires to learn more about how today's music has evolved from the music of previous eras.

Beginning Music Theory

■

Course # 123000

Grade: 10-12

Length: 1 semester

Prerequisite: Teacher approval

Credits: 1 – Arts or Unrestricted

Elective Fee: \$35.00

This course is a comprehensive introduction to the fundamentals of music, which includes music reading, ear training, harmonic writing, and keyboard harmony. It is of special interest to the potential college music major and career musician.

Notes: Students will work to improve their skills in the areas of ear training, harmonic writing, harmonic overtone series, historical significance of music, and keyboard harmony.

AP Music Theory

■

Course # 123010 A/B

Grade: 11-12

Length: 1 year

Prerequisite: Beginning Music Theory or Placement Exam

Credits: 1 – Arts or Unrestricted

Elective Fee: \$90.00

The AP Examination fee is \$115.00

At the conclusion of this course, students will be expected to take the Advanced Placement Music Theory exam for potential college credit. This Advanced Placement course integrates aspects of melody, harmony, texture, rhythm, form, musical analysis, and elementary music composition. Musicianship skills such as dictation, listening, sight singing, and keyboard harmony are an important part of this course. The student's ability to read and write musical notation is fundamental to this course. It is also assumed that the student has acquired at least basic performance skills in voice or on an instrument. This course will prepare students for the AP exam and college music school entrance exams.

Jazz Ensemble (R)

■

Course # 125035 A/B

Grade: 9-12

Length: 1 year

Prerequisite: Instructor approval

Credits: 2 – Arts or Unrestricted

Elective Fee: \$35.00

Jazz band students learn and perform the music styles associated with jazz and improvisation. Instrumentation is that of the standard jazz big band. Performance and sectional rehearsals scheduled outside the regular school day are required.

Students will be expected to participate in public performances, assemblies, and school events. Students may be required to purchase performance attire.

Advanced Jazz Ensemble (R)

■

Course # 125040 A/B

Grade: 9-12

Length: 1 year

Prerequisite: Audition

Credits: 2 – Arts or Unrestricted

Elective Fee: \$35.00 (Students may need to purchase performance attire)

Advanced jazz band students learn and perform the music styles associated with jazz and improvisation. Instrumentation is that of the standard jazz big band. Performances and sectional rehearsals scheduled outside the regular school day are required.

Color Guard (Fall Semester)

Grade: 9-12

Prerequisite: Attendance at summer rehearsals and band camp

Elective Fee: \$500.00 (subject to change)

Color Guard is primarily a flag team and dance line that rehearses and performs with the marching band. Students will be required to attend weekly summer rehearsals. They will perform at all home football games and participate in approximately 4-5 marching competitions. Once the marching season is finished in November, members will have an opportunity to compete with other schools in Winter Guard competitions in and around the Colorado Springs area.

Notes: Mandatory summer marching band camp dates will be posted on the band website in January.

Students will receive dance training from highly qualified dance instructors and will also be taught the fundamentals of working with equipment (flags, rifles, sabres, etc...) The class begins meeting in the summer with weekly instruction.

Course # 126000A

Length: 1 semester

Credits: 1 – Arts or Unrestricted

Color Guard (Spring Semester)

Grade: 9-12

Prerequisite: Audition

Elective Fee: \$350.00 (subject to change)

Color Guard is primarily a flag team and dance line that rehearses and performs with the marching band. Students will be required to attend weekly summer rehearsals. They will perform at all home football games and participate in approximately 4-5 marching competitions. Once the marching season is finished in November, members will have an opportunity to compete with other schools in Winter Guard competitions in and around the Colorado Springs area.

Students will receive dance training from highly qualified dance instructors and will also be taught the fundamentals of working with equipment (flags, rifles, sabres, etc.)

Course # 126000B

Length: 1 semester

Credits: 1 – Arts or Unrestricted

Marching Concert Band (R)**II**

Grade: 9-12

Prerequisite: Attendance at summer rehearsals and band camp

Elective Fee: \$500.00 (subject to change)

Students will practice and perform a variety of music to improve their musical knowledge and performance skills. Performances and some practices outside the regular school day are required. Students will be expected to participate in public performances, school assemblies, and events.

Notes: Mandatory summer marching band camp dates will be posted on the band website in January

Course # 125025 A

Length: 1 semester

Credits: 2 – Arts or Unrestricted

String Orchestra (R)**II**

Grades: 9-12

Prerequisite: Previous string instrument experience.

Elective

Fee: \$35.00

Students will practice and perform a variety of music to improve their musical knowledge and performance skills. Performances and some practices outside the regular school day are required. Students will be expected to participate in public performances, school assemblies, and events.

Course # 125050 A/B

Length: 1 year

Credits: 2 – Arts or Unrestricted

Chamber Orchestra**II**

Grades: 9-12

Prerequisite: Previous string instrument experience

Elective Fee: \$35.00

Students will practice and perform a variety of music to improve their musical knowledge and performance skills, and will be prepared to participate in public performances, school performances, school assemblies, and events.

NOTE: This is the auditioned string ensemble for orchestra. This group will play more challenging literature and may travel.

Course # 125400 A/B

Length: 1 year

Credits: 2 – Arts or Unrestricted

Percussion Techniques (R)**II****Course # 125045 A/B**

Grades: 9-12

Length: 1 year

Prerequisite: None

Credits: 2 – Arts or Unrestricted

Elective

Fee: \$35.00

Students in this class will study basic through advanced percussion technique. They will have an opportunity to study marching percussion, concert percussion, drum-set and world percussion. Students will be exposed to diverse musical styles and investigate the historical/multi-cultural roles of percussion. This is a performance-based class. Students will be expected to perform in public, and at school assemblies and events.

Wind Ensemble**II****Course # 125060 B**

Grade: 9-12

Length: 1 semester

Prerequisite: Audition

Credits: 1 – Arts or Unrestricted

Elective Fee: \$50.00

Students will practice and perform a variety of music to improve their musical knowledge and performance skills. Performances and some practices outside the regular school day are required. Students will be expected to participate in public performances, school assemblies, and events.

A Cappella Ensemble (R)**II****Course # 124001 A/B**

Grade: 9-12

Length: 1 year

Prerequisite: Audition

Credits: 2 – Arts or Unrestricted

Elective Fee: \$35.00

Students will practice and perform modern music arrangements in a contemporary A Cappella style. Highly motivated and self-directed students will work and perform in small ensembles. Students will be expected to participate in public performances, school assemblies, and events. Students may be required to purchase performance attire.

Concert Choir (R)**II****Course # 124010 A/B**

Grade: 9-12

Length: 1 year

Prerequisite: Audition

Credits: 2 – Arts or Unrestricted

Elective Fee: \$35.00

This course is a beginning vocal group that studies and performs all styles of music. Students will learn fundamentals of vocal production and improve musical skills. Students will be expected to participate in public performances, assemblies and school events. Students may be required to purchase performance attire.

Note: This course is used as a place holder for registration purposes only. 124015A

Chamber Singers (R)**II****Course # 124005 A/B**

Grade: 9-12

Length: 1 year

Prerequisite: None

Credits: 2 – Arts or Unrestricted

Elective Fee: \$35.00

The Chamber Singers is a disciplined group that performs music from the Renaissance to challenging contemporary choral works. Dedication and commitment are an important part of this group. Chamber singers perform at school and community events as well as universities and state competitions. Students are asked to put in outside practice time. Students are required to purchase performance attire.

Festival Singers (R)**II****Course # 124015 A/B**

Grade: 9-12

Length: 1 year

Prerequisite: None

Credits: 2 – Arts or Unrestricted

Elective Fee: \$35.00

The Festival Singers is an advanced vocal group which performs music from the Renaissance to challenging contemporary choral works. Dedication and commitment are an important part of this group. Festival singers perform at school and community events as well as festivals and competitions. Students are asked to put in outside practice time. Students are required to purchase performance attire.

Jazz Choir (R) **II** **Course # 124020 A/B**
 Grade 9-12
 Length: 1 year
 Prerequisite: Audition. Previous choral music classes
 Credits: 2 – Arts or Unrestricted
 Elective Fee: \$35.00
 Jazz Choir will perform jazz and modern popular music accompanied by rhythm section. Students will learn to improvise and perform vocal jazz techniques. They will perform at school and community events as well as festivals competitions. Students are asked to put in outside practice time. Students are required to purchase performance attire.

Tenor Bass Choir **II** **Course # 124026 A/B**
 Grade: 9-12
 Length: 1 year
 Prerequisite: None
 Credits: 2 – Arts or Unrestricted
 Elective Fee: \$35.00
 Students will develop vocal technique while studying standard musical literature in a variety of popular and traditional genres. Students will develop performance-level skills necessary to participate and perform in a vocal ensemble.

Treble Choir **II** **Course # 124041 A/B**
 Grade: 9-12
 Length: 1 year
 Prerequisite: None
 Credits: 2 – Arts or Unrestricted
 Elective Fee: \$35.00
 Students will develop vocal technique while studying standard musical literature in a variety of popular and traditional genres. Students will develop performance-level skills necessary to participate and perform in a choir.

Music Theater & Dance **II** **Course # 120000**
 Grades: 9-12
 Length: 1 semester
 Prerequisite: None
 Credits: 1 – Arts or Unrestricted
 Elective
 Students will study several musicals during the course of the semester by reading the libretto, listening to the Broadway CD and then acting, singing and/or dancing a number from the shows studied. This course covers fundamentals in several areas including: basic vocal skills and techniques, stage presence/delivery, basic acting and improvisation skills, monologues, character development/character analysis, and dance skills in tap, ballet, and jazz.

Stagecraft **II** **Course# 056750 A/B**
 Grade: 10-12
 Length: 1 year
 Prerequisite: Grade of “C” or better in Tech Theatre 1
 Credits: 2 – Arts or Unrestricted
 Elective or equivalent/teacher approval
 Fee: \$40.00
 In this course, students will expand on what they have learned in their Technical Theatre course to create two- and three-dimensional drawings, designs, and builds for theatrical productions. Students construct theatrical stage set pieces, design and assemble props, support characterization through use of stage makeup, and create appropriate costumes for a theatrical production.

Set Design **II** **Course# 056750 A/B**
 Grade: 10-12
 Length: 1 year
 Prerequisite: Grade of “C” or better in Tech Theatre 1
 Credits: 2 – Arts or Unrestricted
 Elective or equivalent/teacher approval
 Fee: \$40.00
 In this course, students will expand on what they have learned in their Technical Theatre course to create two- and three-dimensional drawings, designs, and builds for theatrical productions. Students construct theatrical stage set pieces, design and assemble props, support characterization through use of stage makeup, and create appropriate costumes for a theatrical production.

Technical Theatre 1 **II** **Course # 056720**
 Grade: 9-12
 Length: 1 Year

Prerequisite: None

Credits: 2 – Arts or Unrestricted

Elective Fee: \$40.00

In this course, students will learn methods of constructing and painting scenery and properties, operating stage lighting and sound equipment, and implementing costumes, stage makeup, and multimedia. This course explores the proper procedures of serving on stage crews. Students are introduced to the backstage operations of a theatre and will gain foundational knowledge of the elements and requirements of stage management.

<p>Theatre 1 Grade: 9-12 Prerequisite: None Elective</p> <p>This course includes improvisation, pantomime, character analysis, basic stage movement, blocking, and voice control. Students will become familiar with the lexicon of theatre. Class projects include individual and ensemble work. Students will be graded on their participation and growth in acting and play production techniques.</p>	<p>■</p>	<p>Course # 056625 Length: 1 semester Credits: 1 – Arts or Unrestricted</p>
<p>Theatre 2 Grade: 9-12 Prerequisite: Theatre 1 or instructor approval Elective</p> <p>This course continues to build on the students' abilities for improvisation, pantomime, stage movement, characterization, and voice control. Students will be introduced to stage directions and philosophies of blocking, and the evaluation and critiquing of productions. Class projects include individual and ensemble work. This class requires more memorization and in-depth character analysis.</p>	<p>■</p>	<p>Course # 056630 Length: 1 semester Credits: 1 – Arts or Unrestricted</p>
<p>Theatre 3/Advanced Acting (R) Grade: 10-12 Prerequisite: Theatre 2 and instructor approval Elective Fee: \$35.00</p> <p>The students will concentrate on acting in short plays or scenes and will study audition and style-specific acting techniques, building a portfolio of material for use at a variety of auditions. The students will study non-musical and musical theatre auditions. They will perform in a main stage production at the end of the spring semester.</p>	<p>■</p>	<p>Course # 056635 A/B Length: 1 year Credits: 2 – Arts or Unrestricted</p>
<p>Theatre 4/Directing (R) Grade: 10-12 Prerequisite: Theatre 3 or instructor approval Elective Fee: \$70.00</p> <p>Students in Theatre 4 will study the art of directing a play, first by selecting a short play or a cutting from a full-length play, and analyzing the script in a variety of ways, as would a director. They will then hold auditions from amongst the Theatre 3 students, cast their plays, rehearse them, and produce the play in a one-evening black box format before an audience.</p> <p><i>Notes: This course meets with Theatre 3 as these are the acting students they will be directing.</i></p>	<p>■</p>	<p>Course # 056640 A/B Length: 1 year Credits: 2 – Arts or Unrestricted</p>
<p>Theatre 4-Production Mgmt (R) Grade: 10-12 Prerequisite: Theatre 3 or instructor approval Elective Fee: \$35.00</p> <p>Students will be introduced to various areas of management within the stage production industry which include stage manager (working with assistants, actors, and directors), theatre manager (advertising, box office sales, public relations), human resources (training, hiring, safety, compensation, law), and financial manager (payroll, budget). This course is part of the Career and Technical Education Secondary Pathways.</p>	<p>■</p>	<p>Course # 056641 A/B Length: 1 year Credits: 2 – Arts or Unrestricted</p>
<p>Theatre 5/Capstone (R) Grade: 12 Prerequisite: Theatre 4 or instructor approval Elective Fee: \$35.00</p> <p>This course allows for individualized, advanced, and/or cumulative work in a program of study. This work is individualized to the student within a specific program of study to prepare for certification. Students will collaborate with the instructor to determine specific content and course design. This course is part of the Career and Technical Education Secondary Pathways.</p>		<p>Course # 056643 A/B Length: 1 year Credits: 2 – Arts or Unrestricted</p>

Physical Education

Three semester credits of Physical Education and 1 semester of Health are required for graduation. It is recommended that freshmen take Introduction to Physical Education as it is a class designed especially for freshmen to give them an overview of what Physical Education is like at Air Academy High School. Most courses are offered both semesters and students may take courses more than once for PE credit.

Students who are having difficulty in meeting their PE graduation requirements during the normal day schedule may consider the district online alternative program. Academy Online High School offers PE credits in Global Health & Wellness, Outdoor Fitness and Scuba Diving. If students are interested in this program, please refer to the information on page 12; there is an application process required to enter the online program.

**Normal scheduled Physical Education classes (in the building) require all students to wear the approved AAHS uniform. We have uniforms available to purchase for \$20.00 a set (includes both t-shirt and shorts). If purchased separately, t-shirts are \$10.00, and shorts are \$10.00.

All students are **required to take a one-semester Health and Wellness course** sometimes between their 9th-12th grade years.

Physical Education – Must take 3 semester credits

9th - 12th Grade PE Options (All are 1 semester). Please see course description for Prerequisites and for classes that can be repeated (R).

9 th – 12 th	10 th – 12 th	11-12	12 th
Fit Through Dance	Lifelong Team Sports	Peer PE	Rocky Mountain High Leadership
Fitness Hiking & Walking	Racquet Sports		
Total Fitness	Weights & Fitness 2		
Sports Training 1	Speed Training		
Sports Training 2	Fitness Yoga 1		
Weights & Fitness 1	Fitness Yoga 2		
Women's Weights & Fitness			
Rocky Mountain High 1			
Rocky Mountain High 2			
Total Fitness			
Intro to PE			

Health & Wellness

Grade: 9-12

Prerequisite: None

Fee: \$15.00 for American Red Cross Certification (optional)

Health and Wellness is a graduation requirement for Academy District 20 and is to be taken during the freshman year. Students will be introduced to the social, physical, mental and emotional aspects of healthy lifestyles. This course includes human sexuality.

Course # 081000

Length: 1 semester

Credits: 1 – Health

Fit Through Dance (R)

Grade: 9-12

Prerequisite: None

Elective

Fee: AAHS approved PE uniform required

This class will explore fitness through dance. It may include the following dance styles: aerobic, country, folk, modern, jazz, hula, hip hop and ballet. During the semester students will dance to their favorite music as well as be exposed to a variety of new sounds. In addition, students may have the opportunity to observe dance performances and learn to appreciate the different styles of choreography.

Course # 083310

Length: 1 semester

Credits: 1 – PE or Unrestricted

Fitness Hiking/Walking (R)

Grade: 9-12

Prerequisite: Must be able to complete one mile walking in 16 min

Elective

Fee: AAHS approved PE uniform required

No transportation is provided for this course.

This course will develop students' aerobic fitness through analysis and practice of walking and hiking at the appropriate intensity and duration. Pre- and post-course fitness levels will be assessed. Self-monitoring of the appropriate individualized intensity, frequency, and duration of walking will be stressed utilizing a training journal in conjunction with class participation. Emphasis will be placed on stretching, conditioning exercises, proper clothing injury prevention, and proper hiking etiquette. Course will include hiking and walking on, and off, Air Academy premises.

Course # 084410

Length: 1 semester

Credits: 1 – PE or Unrestricted

Fitness Yoga 1 (R)

Grade: 10-12

Prerequisite: None

Elective

Fee: \$5.00; AAHS approved PE uniform required

This class is for athletes as well as non-athletes. It will include the following activities: yoga, pilates, walking, hiking, low impact aerobics, and relaxation.

Notes: The focus is to improve core strength and flexibility.

Course # 083015

Length: 1 semester

Credits: 1 – PE or Unrestricted

Fitness Yoga 2 (R)

Grade 10-12

Prerequisite: Fitness Yoga 1

Elective

Fee: \$5.00; AAHS approved PE uniform required

This class is a continuing course for those students who have already successfully completed Fitness Yoga 1. In this course, students will continue their yoga practice as an extension from the knowledge base gained through the curriculum of Fitness Yoga 1. The course will focus on the development of transitions, balance, core strength, use of mantra, and use of meditation practices to enhance one's yoga practice.

Course # 083016

Length: 1 semester

Credits: 1 – PE or Unrestricted

Introduction to Physical Education (R)

Grade: 9-12

Prerequisite: None

Elective

Fee: AAHS approved PE uniform required

This is a recommended freshman class in which the student will assess personal fitness status in terms of cardiovascular endurance, muscular strength and endurance, and flexibility. Students will be introduced to various team and aquatic (where facilities are available) activities on the introductory level.

Course # 080000

Length: 1 semester

Credits: 1 – PE or Unrestricted

Lifelong Team Sports (R)

Grade: 10-12

Prerequisite: None

Elective

Fee: AAHS approved PE uniform required

The learner will demonstrate the fundamentals and basic skills in many of the following recreational activities: basketball, flag football, floor hockey, soccer, softball, team handball and volleyball. The learner will participate cooperatively and ethically when in competitive physical activities. Conditioning and fitness through various activities will be required.

Course # 083800

Length: 1 semester

Credits: 1 – PE or Unrestricted

Peer PE (R)

Grade: 11-12

Prerequisite: 1 semester of PE and instructor approval

Elective

This course is designed for those students requiring individualized instruction in Physical Education. Students in this course will participate in activities that incorporate team and individual sport skills, strategies in teamwork and problem solving, and provide training in skills needed for leisure activities. In addition, students will be provided the opportunity to improve and maintain physical fitness as well as develop an appreciation for lifelong physical fitness. Peer Partners will fully participate in all activities with their peer student.

Course # 083005 Grade: 11-12

Length: 1 semester

Credits: 1 – PE or Unrestricted

Racquet Sports (R)

Grade: 10-12

Prerequisite: None

Elective

Fee: AAHS approved PE uniform required

The student will demonstrate fundamentals of tennis, badminton, table tennis and racquet ball and pickleball.

These activities will enhance eye/hand coordination, agility, quickness, flexibility and mental strategies.

Conditioning and fitness will be included through various games and aerobic activities.

Course # 083525

Length: 1 semester

Credits: 1 – PE or Unrestricted

Rocky Mountain High 1

Grade: 9-12

Prerequisite: 1 semester of PE and instructor approval

Elective

Fee: \$40.00; AAHS approved PE uniform required

Transportation is not provided for field trips

This class offers different activities that are geared to enhance the student's self-confidence, social awareness, problem solving and leadership potential. The activities may include team-building initiatives, low and high ropes course elements, climbing, rappelling, belaying and orienteering. Students may be required to keep a journal for the class. Students need to have had one PE class and approval from the teacher to register for class.

Course # 083600

Length: 1 semester

Credits: 1 – PE or Unrestricted

Rocky Mountain High 2

Grade: 9-12

Prerequisite: Rocky Mountain High 1

Elective

Fee: \$40.00; AAHS approved PE uniform required

Transportation is not provided for field trips

This is an advanced class, which may cover group initiatives, advanced ropes course elements, intermediate and advanced climbing techniques, rappelling, orienteering, kayaking, snowshoeing, camping, backpacking, outdoor survival, leadership and wilderness first aid. The students need to be highly motivated toward outdoor adventure activities and are strongly encouraged to attend each of the culminating field trips.

Course # 083605

Length: 1 semester

Credits: 1 – PE or Unrestricted

Rocky Mountain High Leadership (R)

Grade: 10-12

Prerequisite: Rocky Mountain High 1 and 2

Elective :

Fee: \$40.00; AAHS approved PE uniform required

Transportation is not provided for field trips

The learner will demonstrate the knowledge to set up and take down the Ropes Course and the Climbing Wall with the help of the teacher. The learner will demonstrate the ability to lead small groups in various activities under the supervision of the teacher.

Course # 083610

Length: 1 semester

Credits: 1 – PE – Unrestricted

Speed Training (R)

Grade: 10-12

Prerequisite: None

Elective

Course # 083230

Length: 1 semester

Credits: 1 – PE or Unrestricted

Fees: \$5.00; AAHS approved PE uniform required

This course will develop student's aerobic/anaerobic conditioning and will include lower body strength training. Overall goal of this course is to improve student's explosion and lower body strength through a variety of activities. Students will participate in a variety of plyometric exercises, cone drills, ladder drills, lower body strength training which will include various core workouts (muscular strength and muscular endurance), conditional exercise (cardiovascular endurance).

Sports Training 1 (R)

Grade: 9-12

Prerequisite: Instructor approval

Elective

Fee: \$5.00 and AAHS approved PE uniform required

This course will focus on developing the basic physical attributes of athleticism with the goal of improving athletic performance, reducing the risk of sport related injuries, and gaining an appreciation for lifelong fitness. The course will emphasize improving total body strength and power, speed, agility, flexibility through basic free weights exercises, calisthenics, plyometrics, and teaching proper running mechanics.

Course # 083265

Length: 1 semester

Credits: 1 – PE or Unrestricted

Sports Training 2 (R)

Grade: 9-12

Prerequisite: Instructor approval

Elective

Fee: \$5.00 and AAHS approved PE uniform required

This course will focus on developing the basic physical attributes of athleticism with the goal of improving athletic performance, reducing the risk of sport related injuries, and gaining an appreciation for lifelong fitness. The course will emphasize improving total body strength and power, speed, agility, flexibility through basic free weights exercises, calisthenics, plyometrics, and teaching proper running mechanics.

Course # 083270

Length: 1 semester

Credits: 1 – PE or Unrestricted

Total Fitness (R)

Grade: 9-12

Prerequisite: None

Elective

Fee: \$5.00 and AAHS approved PE uniform required

This class will incorporate various types of fitness activities aimed at improving cardiovascular fitness, flexibility, and strength. Activities may include floor aerobics, step aerobics, kickboxing, Tae-Bo, running, hiking, walking, interval training, resistance strength training, Pilates, yoga, slide training, fit ball, and biking.

Notes: Aerobic Fitness will be emphasized.

Course # 083205

Length: 1 semester

Credits: 1 – PE or Unrestricted

Weights and Fitness 1 (R)

Grade: 9-12

Prerequisite: None

Elective

Fee: \$5.00 and AAHS approved PE uniform required

This class will focus on activities to enhance physical fitness: strength, speed and endurance. Students will gain an appreciation of exercise for life-long fitness. Strength training utilizing a weight program combined with supplemental lifts and exercises is the basis of the class. Running, plyometrics, agility, flexibility work, and speed development activities are utilized in the class. Knowledge of muscle groups and specific exercises to enhance muscular development are included.

Course # 083215

Length: 1 semester

Credit: 1 – PE or Unrestricted

Weights and Fitness 2 (R)

Grade: 10-12

Prerequisite: Weights and Fitness I or instructor approval

Elective Fee: \$5.00 and AAHS approved PE uniform required

This class continues to build on the foundation established in Weight and Fitness 1. Strength training, utilizing an advanced weights program combined with supplemental lifts and exercises, is the basis of the class. Running, plyometrics, agility and flexibility work, and speed development activities will continue to be utilized.

Course # 083220

Length: 1 semester

Credits: 1 – PE or Unrestricted

Women Weight and Fitness (R)

Grades 9-12

Prerequisite: None

Elective

Fee: \$5.00 and AAHS approved PE uniform required

This class will focus on activities to enhance physical fitness, strength, speed and endurance. Students will gain an appreciation of exercise for life-long fitness. Strength training, utilizing a weights program combined with supplemental lifts and exercises, is the basis of the class. Running, plyometrics, agility, flexibility work and speed development activities are utilized in the class. Knowledge of muscle groups and specific exercises to enhance muscular development are included.

Course # 083225

Length: 1 semester

Credits: 1 – PE or Unrestricted

Science

The Honors Science Program

Honors classes are designed to offer a challenge to students who have demonstrated exceptional ability in Science. Students taking honors Science will be expected to work at a high level of competence and to challenge themselves. Honors classes feature a variety of instructional strategies. Students will receive instruction in critical thinking, oral discourse, group learning, and technology education.

Science Six semester credits (3 years) of lab-based science are required for graduation.

9 th	10 th Grade	11 th	12 th
Biology	Chemistry	AP Biology	AP Physics
Honors Biology	Honors Chemistry	AP Chemistry	
Environmental Science	AP Environmental Science	AP Physics C Elec & Mag	
		Physics	
		Honors Physics	

These Science Courses require the following Math course to be completed or be taken at the same time:

Science Class	Math Class
Honors Biology	Geometry
Chemistry	Algebra 1
Honors Chemistry	Honors Algebra 2
AP Environmental Science	Algebra 2
Physics	Algebra 2
AP Physics	Calculus
Honors Physics	Algebra 3 or higher

Anatomy and Physiology R



Course # 132000 A/B

Grade: 11-12

Length: 1 year

Prerequisite: Biology

Credits: 2 – Science

Fee: \$25.00

Anatomy and Physiology students study the major systems of the human body. Topics covered include the basic anatomical make-up of the body's organs, as well as how these organs function. There is a significant laboratory component to this course, including microscopic work, dissection. Lectures, videos, and research will be used.

Notes: The subject material will be taught at the college prep level; however, the pace will be suitable for high school students.

Astronomy 1



Course # 134105

Grade: 10-12

Length: 1 semester

Prerequisite: None

Credits: 1 – Science

Astronomy students study the matter of outer space. Topics include the history of the solar system, the forces of motion, physics of light, measurement of astronomical distances, planetary geology, and stellar life. Students learn to identify constellations by their patterns and the mythology that accompanies them. This course teaches chemical and physical processes using the cosmos for their application. Concepts are explored through planetarium visits, guest speakers, hands-on activities and night observations.

Astronomy 2



Course # 134110

Grade: 10-12

Length: 1 semester

Prerequisite: Astronomy 1

Credits: 1 – Science

Astronomy 2 builds on the topics covered in Astronomy. Students discover the methods, techniques and tools that have been used to generate current astrophysical knowledge. Topics explored include cosmology, stellar evolution, spectroscopy, astrobiology, and space exploration. Through research and laboratory activities, students discover how and why astronomers know what they know about the cosmos.

Biology

Grade: 9-12

Prerequisite: None

Fee: \$5.00

Biology provides a crucial background in the life sciences arena. Topics covered include basic cell structure, function, and processes; genetics; microbiology; evolutionary concepts and trends; taxonomy of plants and animals (including dissection); basic ecology; and human biology. This course focuses on the world around us using hands-on examples.

Notes: Students will be introduced to the interrelationships and evolutionary processes among the levels of biological organization including cells, tissues, organs, systems, organisms, and populations.

II

Course # 132015 A/B

Length: 1 year

Credits: 2 – Science

Honors Biology*

Grade: 9-10

Prerequisite: Geometry or concurrent enrollment in Geometry recommended

Fee: \$5.00

Honors Biology provides a crucial background in the life sciences arena. Honors Biology studies all topics included in Biology. Students are exposed to advanced biology topics such as advances in biotechnology, bioethics, problems of ecological systems, plant tissue culture, and/or microbiology. Students are expected to work in an independent manner and complete the significant laboratory and writing component of this course. Applications in this course are designed to strengthen abstract reasoning and critical thinking skills.

Notes: Some topics covered include basic cell structure, function, and processes; genetics; microbiology; evolutionary concepts and trends; basic ecology; and human biology. This course focuses on the world around us using hands-on examples. This accelerated curriculum uses laboratory experiences, problem solving activities, lecture, discussions and research projects to explore the major concepts of biological science. Discussion of bioethical issues is also included.

***Note: If intending to take Honors Chemistry the following year – check Math requirements.**

Course # 132020 A/B

Length: 1 year

Credits: 2 – Science

AP Biology*

Grade: 11-12

Prerequisite: Biology and Chemistry

Fee: \$25.00

The AP Examination fee is \$115.00.

At the conclusion of the course the students will be expected to take the Advanced Placement exam for potential college credit. AP Biology meets the objectives of a college level general biology course. Topics covered include biochemistry, molecular and cellular biology, genetics, biotechnology, ecology, evolutionary biology which includes information about all six kingdoms, animals and plants. Tests and laboratory work are the major forms of evaluation.

Notes: This year-long course contains the equivalent of two semesters of college biology plus two semesters of college biology laboratory work. There is a significant workload, and it will require significant work outside of class.

II

Course # 132025 A/B

Length: 1 year

Credits: 2 – Science

Chemistry

Grade: 10-12

Prerequisite: Credit for or concurrent enrollment in Algebra 1

Fee: \$15.00

Chemistry is the study of the properties, changes and interactions of matter. Topics covered include principles of chemical change, chemical formulas, equations and their (stoichiometry/limiting and excess reactants) application, atomic theory, the Periodic Table, acids and bases, phases of matter, solutions, and thermodynamics. There is a significant laboratory component to this course as well as the ability to use mathematics to solve problems.

II

Course # 133115 A/B

Length: 1 year

Credits: 2 – Science

Honors Chemistry*

Grade: 10-12

Prerequisite: Teacher recommendation and approval from Chemistry teacher - Honors Algebra 2 strongly encouraged

Fee: \$15.00

II

Course # 133120 A/B

Length: 1 year

Credits: 1 - Science Honors

Honors Chemistry is the study of the properties, changes and interactions of matter. Topics covered include principles of chemical change, chemical formulas, equations and their (stoichiometry/limiting and excess reactants) application, atomic theory, the Periodic Table, acids and bases, phases of matter, solutions, and thermodynamics. Additionally, the topics of equilibrium, electrochemistry, and organic chemistry are also covered. There is a significant laboratory component to this course and emphasis is placed on problem solving, analytical lab techniques, and scientific writing. Applications in this course are designed to strengthen abstract reasoning and critical thinking skills.

Notes: This course is designed for students who have a keen interest in and strong aptitude for science and math. This class covers more material, moves at a faster pace, and involves more math applications than the general first-year chemistry class. Students will be prepared for success in AP chemistry or college chemistry.

AP Chemistry*



Course # 133125 A/B

Grade: 11-12

Length: 1 year

Prerequisite: Chemistry or Honors Chemistry

Credits: 2 – Science

Fee: \$25.00

\$80- recommended College Textbook for course (Optional)

The AP Examination fee is \$115.00.

At the conclusion of the course the students will be expected to take the Advanced Placement exam for potential college credit. AP Chemistry is a problem-solving and lab-oriented class that meets the objectives of a college level general chemistry course. This course expands and amplifies concepts learned in high school chemistry and covers additional advanced topics and topics relevant to our technological society. Topics covered include structure of matter, states of matter, reactions, descriptive chemistry, laboratory exploration.

Environmental Science



Course # 132405 A/B

Grade: 9-12

Length: 1 year

Prerequisite: None

Credits: 2 – Science

Fee: \$5.00

Environmental Science explores the natural world from an ecological and human point of view. Topics covered include types of ecosystems, non-living and living components of ecosystems (including plants, biology animals, bacteria, fungi, and single-celled organisms), interactions between the non-living and living components, population studies, and animal behavior. In addition, this course also examines discussions on environmental law, economics, ethics, and how humans are impacting the natural world. Lab investigations, field studies, and research projects are undertaken to examine each topic.

AP Environmental Science*



Course # 132410 A/B

Grade: 10-12

Length: 1 year

Prerequisite: Biology completion or concurrent with: Chemistry and Algebra 2

Credits: 2 – Science

Fee: \$15.00

The AP Examination fee is \$115.00.

At the conclusion of the course the students will be expected to take the Advanced Placement exam for potential college credit. AP Environmental Science meets the objectives of a college level introductory course. Topics covered include interdependence of earth's systems (energy, matter, soils, air, water and organisms) human population dynamics (human fertility issues are covered) renewable and non-renewable resources, pollution, global changes (acid rain, greenhouse effect, ozone layer depletion), and environment and society choices for the future (conservation, preservation, remediation and sustainability).

Forensic Science



Course # 139000 A/B

Grade: 10-12

Length: 1 year

Prerequisite: Honors Biology or Biology passing grade of C or better

Credits: 2 – Science

Fee: \$25.00 lab fee

Forensic Science is a year-long lab-based science course. The course will focus on crime scene investigations, evaluation of evidence, and presentation of findings in the appropriate settings. Topics covered will include the legal aspects and technology of forensic science; trace evidence; serology; forensic anthropology; DNA analysis; glass, paint, and soil analysis; toxicology; questioned documents and handwriting; ballistics, tool marks, and arson; and forensic science in the media and in popular culture. This course will position students to pursue further studies

in biology, chemistry, physics, and related fields.

Forensic Science 2



Course # 139002 A/B

Grade: 11-12

Length: 1 year

Prerequisite: Forensic Science 1 passing grade C or better

Credits: 2 – Science

Fee: \$25.00 lab fee

Forensic Science 2 is a year-long lab-based science course. A comprehensive course offered as a second-level high school course in forensic science, students will have the opportunity to expand their knowledge of chemistry, biology, physics, human anatomy, and entomology. Topics that will be covered are forensic anthropology and pathology, forensic entomology, glass analysis and soils, dental impressions, firearms, tool marks, arson and explosives, forensic psychology, cybercrimes, and forensics in the media.

Forensic Science 3



Course #139006 A/B

Grade: 12

Length: 1 year

Prerequisite: General Biology or Honors Biology, Forensic Science 1 Forensic

Credits: 2 – Core Elective

Forensic Science 2 (C or Above)

Fee: \$25.00 lab fee

Forensic Science 3 is a year-long lab-based science course offered as an advanced-level high school course in forensic science, students will have the opportunity to create a professional forensic science portfolio and work toward achieving the Basic Crime Scene Investigator National Certification. Topics that will be covered are reviews of investigations legal and ethical issues, documenting and crime scene, evidence collection and types of evidence, interviews and interrogations, crimes against property, crimes against persons, criminology and crime analysis, serial crimes and criminal profiling, special investigations, trends in criminal investigations, and careers in forensic science.

Principles of Horticulture Science



Course # 132100 A/B

Grade: 11-12

Length: 1 year

Prerequisite: Completion of Biology and Environmental Science

Credits: 2 – Science

Fee: \$40.00 lab fee

In this lab-based course, students will be introduced to the horticulture industry. Horticulture is an agricultural science with major units of instruction including horticulture research, horticultural careers, plant anatomy, seed germination, plant propagation, growing media, pest management, hydroponics, identifying horticultural plants, soil science, and growing greenhouse crops. Students will develop their knowledge and skills, and expand their learning to construct, maintain, and use plant-growing structures; and apply proper design and installation of landscapes including turf grass care and management.

Physics



Course # 133200 A/B

Grade: 11-12

Length: 1 year

Prerequisite: Algebra 2 or concurrent enrollment with Algebra 2

Credits: 2 – Science

Fee: \$15.00 lab fee

Physics is a lab-based course that explores the science of matter and energy and the interactions between the two. Topics include kinematics, Newton's 3 laws of motion, momentum, energy, the principles of waves, light, magnetism, electricity, optics and celestial mechanics. The ability to use mathematics to solve experimental problems is emphasized.

Notes: recommended successful completion or concurrent enrollment in Chemistry

Honors Physics*



Course # 133205 A/B

Grade: 11-12

Length: 1 year

Prerequisite: Pre-Calculus or concurrent enrollment in Pre-Calculus

Credits: 2 – Science

Fee: \$15.00

Honors Physics explores the science of matter and energy and the interactions between the two. Topics include kinematics, Newton's 3 Laws of Motion, momentum, energy, the principles of waves, light, magnetism, electricity, optics, celestial mechanics, thermodynamics, and nuclear physics. Students will apply mathematics through a variety of means such as lab skills, lab designs, and/or class presentations. Applications in this course are designed to strengthen abstract reasoning and critical thinking skills.²⁵

Notes: recommended successful completion or concurrent enrollment in Honors Chemistry

AP Physics C Mechanics***II****Course # 133208 A/B**

Grade: 11-12

Length: 1 Year

Prerequisites: H Physics and credit for or + concurrent enrollment in Calculus

Credits: 2 - Science

Fee: \$25.00

The AP Examination Fee is \$115.00**At the conclusion of the course the students will be expected to take the Advanced Placement exam for potential college credit.**

AP Physics C Mechanics is a yearlong calculus-based, college-level physics course. In this lab-based course, students will learn about kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation.

AP Physics C Elec & Magnetism***II****Course # 133209**

Grade: 11-12

Length: 1 Semester

Prerequisites: H Physics and credit for or concurrent enrollment in Calculus

Credits: 1 - Science

Fee: \$25.00

The AP Examination Fee is \$115.00

At the conclusion of the course the students will be expected to take the Advanced Placement exam for potential college credit.

AP Physics C Electricity & Magnetism is a calculus-based, college-level physics course. In this lab-based course, students will explore topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism.

Notes: this course should be taken concurrently with AP Physics C Mechanics* in Semester 2

Social Sciences (Social Studies)

The Social Studies Department serves to develop and prepare the student for the social, political, and economic experiences that they will face in their adult lives. We believe that the student should develop a global concept of the world which will aid in their productivity to society. This includes the principles of critical thinking and an understanding of the roles of government, citizenship, the effects of history, and the behavioral sciences in understanding our everyday world.

Six semester credits (three years) of social studies are required for graduation, including: **successful completion of a semester of Civics or a year of AP Government and a year of US History.**

The following sequence of courses is recommended to Air Academy students. They are also encouraged to take the elective courses that interest them.

New: Social Studies A.P. Achievement Cord:

With the recent addition of A.P. World for sophomores, Air Academy now currently offers six different Advanced Placement (AP) courses. Student who successfully complete five (or all six) of these courses (with “C” or higher) during their high school career will qualify to wear the Social Studies A.P. Achievement Cord at their graduation.

Social Science – must take 6 credits (including Civics, US History, and World History)

9 th	10 th	11 th and 12 th	12 th Grade
World Regional Geography (1year)	World History and Geography (1year)	US History & Geography Grades: 11 & 12 (1year)	Civics and Law
Honors World Regional Geography (1 year)	Honors World History (1year)	Honors US History and Geography Grades: 11 & 12 (1year)	
Honors Arts-Integrated World Regional Geography (1 year)	Integrated World History (1year)	AP US History Grades: 11 & 12 (1year)	
AP Human Geography (1 year)	AP World History: Modern (1year)	AP US Government and Politics	

World Regional Geography

Grade: 9

Prerequisite: None

World Regional Geography develops a view of the world through the study of cultural and physical geography. Emphasis is placed on our natural environment, cultural regions, and geographic aspects of man’s contemporary economic, social, and political conditions. Interrelationships of climate, vegetation, soils, landform, and environmental impacts are studied. Map reading, map interpretation and the skills necessary to accomplish these tasks are studied.

Notes: This course will include Basic Economic Concepts and Personal Finance Literacy. Part of second semester will be devoted to a basic overview of Economics. This will include scarcity, supply and demand, opportunity costs, economic systems, and personal finance.



Course # 154000

Length: 1 year

Credits: 2 – Social Studies

Honors World Regional Geography*

Grade: 9

Prerequisite: Teacher recommendation

This course is thematically based, focusing on the physical, cultural, economic, and political aspects of earth.



Course # 154004 A/B

Length: 1 year

Credits: 2 – Social Studies

evaluation. Using a curriculum infused with the arts, there will be an emphasis on inquiry learning to promote the development of the student as investigator and researcher. Study in this course will also examine students' approaches to learning.

AP World History: Modern*

II

Course # 155913 A/B

Grade: 10-12

Length: 1 year

Prerequisite: Social Studies teacher recommendation

Credits: 2 – Social Studies

The AP Examination fee is \$115.00.

At the conclusion of the course the students will be expected to take the Advanced Placement exam for potential college credit.

In AP World History: Modern, students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course in order to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

U.S. History/Geography

II

Course # 155505 A/B

Grade: 11-12

Length: 1 year

Prerequisite: None

Credits: 2 – Social Studies

United States History is required for graduation.

US History/Geography is a survey course of US History from the pre-colonial period to the present. The course is designed to develop an understanding of the birth and growth of the US to include people of varied backgrounds. Emphasis is placed on the cause and effect of relationships found throughout our nation's history and geographical development as well as relationships between history and politics/economics.

Honors U.S. History/Geography*

II

Course # 155510 A/B

Grade: 11-12

Length: 1 year

Prerequisite: None

Credits: 2 – Social Studies

United States History is required for graduation.

Honors US History/Geography is an advanced course in US History from the pre-colonial times to the present. Emphasis is placed on essay writing while studying cause and effect through inventions, discoveries, great people, geography and politics.

AP U.S. History*

II

Course # 155525 A/B

Grade: 11-12

Length: 1 year

Prerequisite: Teacher recommendation

Credits: 2 – Social Studies

The AP Examination fee is \$115.00.

United States History is required for graduation.

At the conclusion of the course the students will be expected to take the Advanced Placement exam for potential college credit.

AP US History/Geography meets the objectives of a college level US History course and meets the US History graduation requirement. This course covers the colonial period through the twentieth century incorporating critical essay writing and the interpretation of primary historical evidence. Supplemental reading of documents, essays, and books are used.

Civics and Law

II

Course # 157105

Grade: 12

Length: 1 semester

Prerequisite: None

Credits: 1 – Civics

Civics and Law provides a basic understanding of the design and operation of federal, state, and local governments. Relationships between the citizen and the government are explored and the student develops an understanding of the significant role of the citizen in American democracy. The students become familiar with the American legal system and their rights and responsibilities as citizens.

AP US Government and Politics***II****Course # 157116 A/B**

Grade: 11-12

Length: 1 year

Prerequisite: Social Studies teacher recommendation

Credits: 2 – Civics

Fee: \$20 Textbook (Optional)

The AP Examination fee is \$115.00.

At the conclusion of the course the students will be expected to take the Advanced Placement exam for potential college credit.

AP Government and Politics meets the objectives of a college level course in United States government and comparative government. Students develop an understanding of the input and output mechanisms of American government, as well as how these compare to those of other nations. The intensity and pacing of this course may require summer work. All students will be prepared for and expected to take the AP exam for the purpose of earning college credit.

AP European History***II****Course # 155000 A/B**

Grade: 10-12

Length: 1 year

Prerequisite: Social Studies teacher recommendation

Credits: 2 – Social Studies

The AP Examination fee is \$115.00.

At the conclusion of the course the students will be expected to take the Advanced Placement exam for potential college credit.

AP European History meets the objectives of a college level course in European history. European history from 1400 to 1989 is covered. Students should expect considerable amounts of outside reading combined with the development of interpretive skills and analytic oral discussion. Students will develop and understand the themes in European history and will be able to analyze historical evidence (both primary documents and secondary works). Through analytical writing, students will demonstrate course understanding.

Multicultural America**II****Course # 155105**

Grade: 10-12

Length: 1 semester

Prerequisite: None

Credits: 1 – Social Studies

Multicultural America studies the major ethnic and racial groups that comprise the U.S. today, to include Native American, African American, and Asian. Students analyze the background of each group for better understanding of the impact that these ethnic and racial groups have on our society. Important political, cultural, economic, and social issues are studied.

Psychology**II****Course # 158000**

Grade: 11-12

Length: 1 semester

Prerequisite: None

Credits: 1 – Social Studies

Psychology studies the basic psychological theories and how they are applied. Discussion is an integral part of this class and students are expected to share ideas and be respectful of others' beliefs and opinions. Hands-on activities include arts and crafts brain surgery, Maslow's hierarchy, relaxation therapy and tangrams. During the course students test themselves to determine life expectancy, stress level, brain dominance, sleep deprivation, level of depression and IQ.

AP Psychology***II****Course # 158010 A/B**

Grades: 11-12

Length: 1 year

Prerequisite: Social Studies Teacher recommendation

Credits: 2 – Social Studies

The AP Examination fee is \$115.00.

At the conclusion of the course the students will be expected to take the Advanced Placement exam for potential college credit.

AP Psychology meets the objectives of a college level course in psychology. In this introductory course into the study of human and animal behavior and mental processes, students are introduced to psychological facts, and principles and phenomena associated with the different areas of psychology. Topics covered include the biology of behavior, sensation and perception, motivation and emotion, states of consciousness, development, abnormal behavior, therapy approaches, personality, and social psychology. All students are expected to take the AP exam for the purpose of earning college credit.

Sociology

Grade: 10-12

Prerequisite: None

Sociology studies the basic components of society. Topics covered include culture, conformity and adaptation, family, cultural diversity, social movements, racial and ethnic relations, and deviance and social control. Small and large group discussions are emphasized as are reading comprehension and writing skills.



Course # 151000

Length: 1 semester

Credits: 1 – Social Studies

Special Programs

Academic Support

Grades: 9-12

Prerequisite: Teacher Recommendation

Students will be supported using specially designed instruction to build their skills in English Language Arts and math based on individual goals and objectives identified within each student's IEP. Students will receive both direct instruction and indirect support based on individual levels and needs. Students will learn organizational and test preparation skills to support them to be successful. Additionally, students will receive services for transition goals, executive functioning goals, and IEP advocacy.

The course is taught within the Special Education department.

Course # 191265 A/B

Length: 1 semester

Credits: 1 - Core Elective

Career Exploration & Internship

Grades: 10

Prerequisite: None

NOTE: 10th grade students in either Career Academy must register for two sections (one fall, one spring) of Career Exploration & Internship as the industry professional and skills will vary from semester to semester.

This course is required for 10th grade students in one of our Career Academies and is limited to those students for the 24-25 school year. The course is designed to support students in the development of job skills, exploration of potential career interests, and practical experiences in the work place. Students will complete career inventories and assessments, research potential careers, and spent time with professionals in various industries. Students will also be given time to complete relevant and connected coursework (as one might in a study hall).

Course # 191132

Length: 1 semester

Credits: 1 – Unrestricted Elective

Concurrent Enrollment Courses (CE)

Grade: 11-12 (Grades 9 or 10 by waiver only)

Prerequisite: Counselor approval and 2 school months

semester) advance notice to the district. Students must provide their own transportation.

See College & Career

Length: 1 semester (must reapply each

Credits: Varies

Elementary School Helpers (R)

Grade: 11-12

Prerequisite: Application selection process

AAHS does not provide transportation to any elementary schools.

Students enrolled in this program will be assigned to help an elementary classroom in District 20. Classroom tasks will be assigned by the classroom teacher; they will involve working with students individually as well as in small groups. Tasks will also include a wide variety of activities common to elementary school and elementary teaching based on the needs of the individual classroom. This program is particularly useful to high school students who are considering a career in elementary education. It is necessary for the student to provide his or her own transportation. Credit is based on the number of hours of participation at the elementary school and teacher evaluation. See your counselor for more information and an application.

Notes: Elementary School Helpers require 60 hours of contact. Enrollment is limited to juniors and seniors. An application and screening process is involved in the selection of elementary helpers. Only those students who have made applications and have been selected will be able to enroll in this class. Assigned teachers will provide feedback at the end of the semester to determine success in this class. Applications will be available during pre-registration in Student Services. Attendance will be monitored by the assigned elementary school and they will notify AAHS if attendance becomes a concern.

Course # 191015 A/B

Length: 1 semester

Credits: 1 – Unrestricted Elective

English Essentials (R)

Grades 9-12

Prerequisite: Teacher Recommendation

This English course is designed to meet individual needs. The course is taught within the Special Education department.

Course # 050075 A/B

Length: 1 semester

Credits: 1 – Unrestricted Elective

F.L.I.G.H.T. (For Learning, Intervention, Guidance, Help, & Tutoring) R

Grade: 9-12

Prerequisite: teacher referral and guidance counselor recommendation.

F.L.I.G.H.T. is a class designed for students who would benefit from an opportunity to receive additional academic support. Areas of focus include planning, organization, study skills, studying for tests, goal setting and homework completion. This course helps students in identifying areas of opportunity for growth, and strengths; and to self-advocate for their academic needs and successful high school completion.

Course # 190040

Length: 1 semester

Credits: 1 – Unrestricted Elective

Guided Study Hall (R)

Grades: 9-12

Prerequisite: None

Guided Study is an intensively monitored small venue study hall in which the facilitator actively works with students in completing assignments, studying for tests and quizzes, and completing projects. Teacher will prompt students on organization, studying, assignment completion and use of class time. The guided study facilitator acts as a liaison between the intervention coordinator, teachers, students and parents to ensure that grades and grade issues are communicated in a timely manner.

Notes: This class is a pass/fail grade only and does not impact GPA.

Course # 191100 A/B

Length: 1 year

Credits: 1 (.5 per semester) – Unrestricted Elective

Independent Study

Grade: 11-12

Prerequisite: Administrative approval

Independent Study is available to students who wish to explore in greater depth, and at an advanced level, an area related to a subject offered at Air Academy High School. Students will work under the direction and supervision of a teacher who is willing to accept an additional assignment.

Teachers are not obligated to provide Independent Study and do so at their discretion.

1. Independent Study is a **semester only** class.
2. Students may only have one Independent Study per semester.
3. Courses currently offered in the curriculum **may not be taken** for independent study.
4. Independent Studies may only be used to fulfill elective credits.
5. Independent Study may not be taken to resolve a simple schedule conflict.
6. Independent study **must include** a written component
7. An Independent Study must be designed by the student and supervising teacher with emphasis on academic appropriateness and approved by the Department Chairs and Administration.
8. Students are required to be in the classroom with the teacher during their Independent Study block. Students **may not** leave campus.

Course # will be assigned by teacher

Length: 1 semester

Credits: 1

Leadworthy

Grade: 9-12

Prerequisite: None

Students will develop leadership and social-emotional skills that will prepare them to engage within society in positive and effective ways as productive citizens and confident leaders. This is a Flippen Group course and requires specific instructor certification.

Course # 191001

Length: 1 semester

Credits: 1 – Unrestricted Elective

Leadworthy 2

Grade: 9-12

Prerequisite: None

Students will continue to build upon LeadWorthy curriculum outcomes, and apply learning through a variety of activities which may include book studies, service projects, etc. This is a Flippen Group course and requires specific instructor certification.

Course # 191002

Length: 1 semester

Credits: 1 – Unrestricted Elective

Life Academic

Grades 9-12

Prerequisite: Teacher Recommendation

Students will focus on the development of social and emotional skills in order to be able to access and engage in learning. Topics include but are not limited to conflict resolution, peer relationships, rules and regulations, motivation, leadership and positive social interactions. Students will work on developing their social and emotional skills that will allow them to develop and strengthen their skills in problem solving, critical thinking, and stress management so that they can engage in the learning process. The course is taught within the Special Education department.

Course # 191060 A/B

Length: 1 semester

Credits: 1 – Unrestricted Elective

Life Skills

Grades 11-12

Prerequisite: Teacher Recommendation

This course is designed to meet individual needs. The course is taught within the Special Education department.

Course # 090005 A/B

Length: 1 semester

Credits: 1 – Unrestricted Elective

Literacy Lab 1 (R)

Grade: 10

Prerequisite: Teacher and Counselor recommendation

(English)

Literacy Lab is a course designed to assist students with reading, writing, vocabulary, and related comprehension strategies. Instruction will concentrate on increased student ability, confidence, language skills, and organization. This course is also for students needing assistance in writing skills such as grammar, sentence structure, vocabulary, coherence, and appropriate word choice in order to meet the Colorado Academic Standards at their grade-level. Students would be concurrently enrolled in their grade-level English course. Enrollment will be for one semester with the capability of continuing more semesters as needed.

Course # 051000 A/B

Length: 1 year

Credits: 2 – Core Elective

Math Essentials (R)

Grades 9-12

Prerequisite: Teacher Recommendation

This mathematics course is designed to meet individual needs. The course is taught within the Special Education department.

Course # 110075 A/B

Length: 1 semester

Credits: 1 – Unrestricted Elective

Partial Absence

Grade: 11-12 ONLY

Students receive no credit for partial absence. School approval of partial absences is contingent upon several conditions, including the following:

Students are expected to be off campus during their partial absence and must provide their own transportation to and from school. Students must remain on track with credits toward graduation; partial absences will not be approved for students who are in danger of not accumulating enough credits to graduate with their class.

Notes: Partial absences will not be approved for students who have failed classes from the previous year/semester. Student's discipline and attendance records will also be considered when approving partials.

A Partial Absence must be approved by parent, counselor, and Principal. A partial absence may jeopardize your athletic eligibility. (See page 10-11 for further details.)

Course # 191426

Length: 1 semester

Seniors registering for two partials in a semester should register using the course numbers from the chart below.

First Semester

Course Number	Courser Name
191246A	Partial Absence 1 – AM
191247A	Partial Absence 2 – AM
191248A	Partial Absence 1 – PM
191249A	Partial Absence 2 – PM

Second Semester

Course Number	Courser Name
191246B	Partial Absence 1 – AM
191247B	Partial Absence 2 – AM
191248B	Partial Absence 1 – PM
191249B	Partial Absence 2 – PM

Peer Partners (R)

Grade: 10-12 – (9th grade second semester only with permission of instructor)
 Prerequisite: Application. Must be in D20 at least 1 semester

Students will be required to do a final paper/project. Attendance is vital for this course. Students will support special education students in their classroom, in mainstream classes, or at a job site. In addition, peer partners must be flexible and be ready for assignment changes during the semester. This is a great opportunity for students interested in a career in education.

Notes: Students will be required to complete a mid-semester project. Peer partners receive instruction and training to support their fellow students. Peer Partners will fully participate in all activities with their peer student in Peer PE.

Course # 191035

Length: 1 semester

Credits: 1 – Unrestricted Elective

Peer Tutor (R)**Grades:** 11-12

Prerequisite: Instructor approval

Note: This class is a pass/fail grade only and does not impact GPA.

Students will work with teachers to provide tutoring and study skills for students. This course is designed for academically strong students who can support their peers in gaining a better understanding of various contents. Students in this course will tutor to students in study halls and guided study halls or in teacher's classroom.

Teacher recommendation needed. Students may also volunteer to tutor in study halls for community service hours.

Course # 191007

Length: 1 semester

Credits: 1 – Unrestricted Elective

P.I.L.O.T.S. - (Preparing Individual Learning Observing Their Strengths) (R)

Grade: 9-12

Prerequisite: Teacher and/or Counselor Recommendation

Students will learn about the way the brain functions to identify personal strengths and weaknesses, build executive functioning, and how to self-advocate for learning. This class offers social-emotional learning supports and check-ins with a counselor on a weekly basis.

Course # 191115 A/B

Length: 1 year

Credits: 2 – Unrestricted Elective

Practical Work Experience (R)

Grades: 9-12

Prerequisite: None

This course provides students with practical work experience in a professional setting, allowing them to apply academic knowledge and develop essential skills for future careers. The program aligns with the Colorado Essential Skills, D20 Portrait of a Graduate, and the Individual Career and Academic Plan (ICAP), focusing on communication, problem-solving, collaboration, and personal responsibility.

Course # 191041

Length: 1 year

Credits: 1 – Unrestricted Elective

Reading Lab 1 (R)

Grade: 9

Prerequisite: Teacher recommendations
 (English)

This course is designed to assist students with reading, writing, vocabulary, and related comprehension strategies. Instruction will concentrate on increased student ability, confidence, language skills, and organization.

Notes: Included in the curriculum will be the following: reading, comprehension exercises, study skills, word analysis, and reader response. This course is an English core elective and not a substitute for a required English class. Class size is limited.

Course # 051105 A/B

Length: 1 year

Credits: 2 – Core Elective

Student Assistant (R)**Grades:** 11-12

Prerequisite: Instructor approval

Note: This class is a pass/fail grade only and does not impact GPA.

This program is designed to train students to aid students, faculty and staff as well as give students experience in office and classroom duties.

Notes: Students who have the knowledge in a course/subject area will be selected and assigned to a guided study hall or teacher's classroom to assist teachers in tutoring peers in specific subject areas.

Course # 191045

Length: 1 semester

Credits: 1 – Unrestricted Elective

Student Government (R)

Grade: 9-12

Prerequisite: Students will be enrolled following spring elections.

Members will learn by application procedures of government and parliamentary procedure. They will focus on leadership skills necessary for effective leadership in a high school setting. They will make decisions relative to student body matters. They will have a primary role in student activities and student assemblies. Credit earned will be applied as elective credit.

Notes: Students may not sign up for this course. This is for those students who are a part of Student Council.

Course # 191080 A/B

Length: 1 year

Credits: 2 – Unrestricted Elective

Study Hall

Grades: 9-12

Prerequisite: None

No credit is given for this class, which provides time for students to do homework. Attendance is mandatory. Students who plan to apply to the most competitive schools may want to sign up for this so that it does not appear on their transcript.

Course # 191050

Length: 1 semester

Credit: No Credit

Teacher Assistants (R)

Grade: 10-12

Prerequisite: None

This program is designed to train students to aid students, faculty, and staff as well as give students experience in office and classroom duties. One-half credit is given, and evaluation is given on a “pass/fail” basis.

Teacher assistants will be used in the following areas: Main Office, Student Services, Athletics, and by teachers.

This course does not count as full credit toward athletic eligibility.

Course # 191065

Length: 1 semester

Credits: .5 – Unrestricted Elective

Writing Lab 1 (R)

Grade: 11-12

Prerequisite: Teacher and Counselor Recommendations (English)

Students will receive instruction in writing skills such as grammar, sentence structure, vocabulary, coherence, and appropriate word choice in order to meet the Colorado Academic Standards at their grade-level. Students would be concurrently enrolled in their grade-level English course.

Course # 054215

Length: 1 year

Credits: 2 – Core Elective

Credit Clarification Chart

Course	Credit	On Transcript	Grading Type	Calculated in GPA
FLIGHT	1	Yes	A, B, C, D, F	Yes
Freshman Success	1	Yes	A, B, C, D, F	No
Guided Study Hall	.05	Yes	Pass/Fail	Yes
Peer Tutor	1	Yes	Pass/Fail	No
PILOTS	1	Yes	A, B, C, D, F	Yes
Career Exploration & Internship	1	Yes	A, B, C, D, F	Yes
Student Assistant	1	Yes	Pass/Fail	No
Study Hall	0	No	No Grade	No
Teacher Assistant	.05	Yes	Pass/Fail	No

Visual Art and Digital Media

All art courses are offered as electives. The art curriculum has been designed to offer balance and variety in the area of fine arts for the beginning student as well as the student interested in art as a career. General goals of the art department are to develop creativity and self-expression, visual awareness, skills of craftsmanship, appreciation of the work of others, freedom of experimentation and risk-taking, and problem-solving techniques.

Several courses offer an articulated credit through Pikes Peak State College, Visual Communications Department. Our expanding articulations with higher education mean that students earn college credit while attending high school. See the Art Department for information about articulated credit.

9 th – 12 th	10-12	11 th – 12 th
Art 1	AP Art History (1 year)	AP Studio Art (1 year)
Art 2	Art 3	Independent Study: Special Topics
Ceramics	Art 4	
Ceramics 2	Honors Art	
Computer Animation	Ceramics 3	
Digital Photo 1	Ceramics 4	
Digital Photo 2	Digital Photo 3	
Computer Graphic Design 1	Commercial Art 2	
Computer Commercial Art 1	Independent Study: Art	

Art 1 ■ **Course # 020000**
 Grade: 9-12 Length: 1 semester
 Prerequisite: None Credits: 1 - Arts or Unrestricted
 Elective
 Course fee: \$35.00
 Students will receive instruction in the skills of basic drawing and painting. Students will explore basic techniques and subject matter. The media may include pencil, ink, charcoal, color pencil, printmaking, acrylic, water color, tempera, and cut paper.
 Notes: This course is designed for students that are interested in producing art while learning the basic vocabulary of the visual arts. This class is for beginning level students and those who may not have a solid background in the elements of art.

Art 2 ■ **Course # 020005**
 Grade: 9-12 Length: 1 semester
 Prerequisite: Grade of "C" or higher in Art 1 is recommended Credits: 1 - Arts or Unrestricted
 Elective Fee: \$35.00
 Students will receive instruction in the skills of intermediate drawing and painting. Students will expand their knowledge and application of drawing and painting techniques. The media may include pencil, ink, charcoal, color pencil, printmaking, acrylic, water colors, tempera, pastels, sanguine and sepia, and conte crayon.
 Notes: Specific techniques and applications of various media will be emphasized within original compositions created by each student.

Art 3 ■ **Course # 020010**
 Grade: 10-12 Length: 1 semester
 Prerequisite: Grade of "C" or higher in Art 2 is recommended Credits: 1 – Arts or Unrestricted
 Elective
 Fee: \$35.00
 Students will receive instruction in the skills of advanced drawing and painting. Students will continue to develop personal style and complex problem-solving skills as evidenced in the development of their portfolio.
 Notes: The use of sketchbook and research-based strategies will be emphasized to support the classroom pursuits in studio applications.

Art 4**Course # 020015**

Grade: 10-12

Length: 1 semester

Prerequisite: Grade of "C" or higher in Arts course Credits: 1 – Arts or Unrestricted Elective Fee: \$35.00

Students will work in the media of their choice, developing advanced technical skills and personal style while addressing problems of creative expression. Mixed media and use of new media will be addressed. Students will be expected to create two "show quality" art pieces.

Notes: Concentration on a sophisticated approach within the communication of the visual arts will be emphasized as evidenced by journal entries and writings within the process sketchbook kept by each student.

Audio/Video Production 1**Course # 109080 A/B**

Grade: 10-12

Length: 1 year

Prerequisite: Tech Theatre 1 or instructor approval Credits: 2 – Arts or Unrestricted Elective Fee: \$40.00

This course explores the Audio and Video production industry and its post-secondary educational and career opportunities. Students will gain job-specific training for entry level employment in audio, video, television, and motion picture careers.

Professional-grade equipment and software will be used in the creation of student theater and film productions.

Students will be involved in every aspect of several class- and school-level audio, video, and film style production projects with emphasis on technical theatre and film production. Students will also be encouraged to participate as studio crew for productions during and outside of school hours. Students will expand on what they have learned in their Technical Theatre course to make artistic and practical choices regarding lights, music, effects, use of video, microphones, and speakers to create a multimedia experience during a production.

Honors Art* (R)**Course # 020030**

Grade: 10-12

Length: 1 semester

Prerequisite: Grade of "C" or higher in Art 4 is recommended / or Elective Fee: \$40.00

Credits: 1 – Arts or Unrestricted portfolio and instructor signature

This is an advanced problem-solving course for the exceptionally talented student having a strong desire to develop knowledge and skills in all areas of art. Emphasis will be placed on developing and producing high-quality art work under the guidance of the instructor, as well as on challenge and risk-taking, creative problem solving, and art history and criticism. It is especially designed for those students interested in pursuing a visual arts career or college major.

This course may be repeated for credit.

Notes: Medium options: Ceramics, 2-D Visual Arts, Photography, Computer Commercial Arts, and Digital Imaging

AP Art History***Course # 022012 A/B**

Grade: 9-12

Length: 1 year

Prerequisite: Grade of "C" or higher in Honors Art*

Credits: 2 – Arts or Unrestricted

The AP Examination fee is \$115.00

portfolio and instructor signature

At the conclusion of the course the students will be expected to take the Advanced Placement exam for potential college credit. AP Art History is an academically rigorous college-level course examining the profound and chronologically extensive influence of visual art forms across eastern and western cultures. Topics of study range from Ancient Art through Art of the Early 20th Century. Across the scope of place and time, AP Art History focuses primarily on painting and drawing (40-50%), architecture (approx. 25%), sculpture (approx. 25%), and other media (5-10%). Students will learn to examine and assess works of art critically, and in aesthetic contexts. AP Art History will be taught in almost exclusively a lecture format, using projected images. Strategies for assessing students will follow the format of the AP terminal Examination which includes multiple-choice questions, and narrative or comparative essay.

Art in Public Places 1**Course # 022300**

Grade: 10 - 12

Length: 1 semester

Prerequisite: None

Credits: 1 – Arts or Unrestricted

Elective

Fee: \$35.00

This is an intermediate level public sculpture art course in which students will continue to develop their artistic skills, creativity, self-expression, and visual awareness at a higher level and faster pace. Students will expand on their knowledge of public art by researching famous public sculptors culminating in classroom presentations. Students will be required to build a library of public sculpture history as resource material for future AiPP classes. Final sculpture

proposals will be required from every student. Proposal maquettes will be more refined and use similar materials as well as similar processes as those proposed in the final construction.

Art in Public Places 2

Grade: 11 - 12

Prerequisite: Grade of C or higher in Art in Public Places 1

Elective

Fee: \$35.00

This is an intermediate level public sculpture art course in which students will continue to develop their artistic skills, creativity, self-expression, and visual awareness at a higher level and faster pace. Students will expand on their knowledge of public art by researching famous public sculptors culminating in classroom presentations. Students will be required to build a library of public sculpture history as resource material for future AiPP classes. Final sculpture proposals will be required from every student. Proposal maquettes will be more refined and use similar materials as well as similar processes as those proposed in the final construction.

Course # 022305

Length: 1 semester

Credits: 1 – Arts or Unrestricted

Ceramics 1

■

Grade: 9-12

Prerequisite: None

Elective

Fee: \$40.00

This course involves an introduction to the materials, techniques, design and equipment of hand-built ceramic art and an introduction to the potter's wheel. Emphasis will be on development of basic skills, creativity, craftsmanship, aesthetics, and using clay as a medium of personal expression.

Course # 023000

Length: 1 semester

Credits: 1 – Arts or Unrestricted

Ceramics 2

■

Grade: 9-12

Prerequisite: Grade of "C" or higher in Ceramics 1 is recommended

Elective Fee: \$40.00

This course will include an in-depth study of materials, techniques, design and equipment of hand-built ceramics plus intermediate wheel throwing.

Notes: This course will build on the student's knowledge of methods learned in Ceramics 1. Emphasis will be on combining construction methods and incorporating new glazing techniques. Projects will explore creating new combinations of design and form through creative problem solving and improved craftsmanship.

Course # 023005

Length: 1 semester

Credits: 1 – Arts or Unrestricted

Ceramics 3

■

Grade: 10-12

Prerequisite: Grade of "C" or higher in Ceramics 2 is recommended

Elective Fee: \$40.00

At advanced levels of ceramic studies students will work with materials, techniques and concepts to generate their own personal designs. Students will be required to research and develop their ideas in and out of the ceramic lab. Students will pursue new directions with approval and guidance from the instructor. Emphasis may be on the exploration of clay as a sculptural medium, the business strategies behind the process of production pottery, independent study, and mastery of clay studio processes.

Notes: At this level, students are introduced and involved with studio maintenance and process i.e. loading kilns and mixing glazes. Students will be expected to submit their best work to school exhibits, district and local art shows.

Course # 023010

Length: 1 semester

Credits: 1 – Arts or Unrestricted

Ceramics 4

■

Grade: 10-12

Prerequisite: Grade of "C" or higher in Ceramics 3, Portfolio review,

Elective

Fee: \$40.00

At advanced levels of ceramics studies, students will work with materials, techniques, concepts, designs and research in and out of the ceramics lab. Students will work with individualized projects utilizing instruction, reference and experience. Students will pursue new directions with approval and guidance from the instructor. Students may take this course within a Ceramics 1, 2, or 3 class with instructor's approval. **This course may be taken as Honors Art with a**

Course # 023015

Length: 1 semester

Credits: 1 – Arts or Unrestricted

instructor signature

weighted grade.

Notes: Students will be expected to submit their best work to school exhibits, district and local art shows

AP Studio Art* (R)

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Course # 020035 A/B

Grade: 11-12

Length: 1 year

Prerequisite: Art 3 OR Ceramics 3 and instructor signature

Credits: 2 – Arts or Unrestricted

Elective Fee: \$30

The AP Examination fee is \$115.00

At the conclusion of the course the students will be expected to take the Advanced Placement exam for potential college credit. Students will prepare for and take the AP Studio Art exam by completing a portfolio in one of three AP Studio Art Courses in AP Studio Art 2D design, 3D Design, or Drawing Portfolio for potential college credit.

Notes: This class is a year-long, college-level course which requires dedication by the student in spending equal amounts of time inside and outside the classroom in art production. Students will spend part of their summer and the entire year producing artwork for a portfolio in Drawing, 2-D design or 3-D design. Approximately 30 slides of artwork will be submitted to the AP Board for evaluation at the end of the school year. Students must be interviewed by the Art Department and present a portfolio of their artwork to the Instructor to obtain permission to enroll. It is mandatory for the AP credit that the students submit their completed portfolios to the AP Board in May.

Independent Study-Art

Course # 029020

Grade: 10-12

Length: 1 semester

Prerequisite: Level 1 art course and instructor signature

Credits: 1 – Unrestricted Elective

Fee: \$35.00

This course is for the self-motivated learner. IS Art is designed to accommodate the needs of those students who have a restricted schedule. Instructors will be available to work with students for courses: Art 2, 3, 4, AP Studio Art, Honors Art, Honors Portfolio Development Studio, Digital Photo 2, and 3. Refer to the course description for these courses. Students with a strong passion for The Arts are encouraged to register for this course.

World Language

All Foreign Language courses are elective courses; however, one should realize the importance that fluency in a language could have in expanding career possibilities, broadening cultural awareness, understanding English grammar, and fulfilling certain college requirements. All foreign language courses are yearlong commitments and students should plan to take both semesters unless failing at the end of the first semester. **Availability of upper-level classes is dependent upon sufficient enrollment.**

Seal of Biliteracy

Students who earn a B or better in four consecutive years of a high school World Language and four consecutive years of their high school English classes will be eligible for a Seal of Biliteracy.

World Language – Must take 2 credits for graduation

All classes are a full year

Language	Course	Course	Course	Course	Course	Course
American Sign Language	American Sign Language I	American Sign Language II	American Sign Language III	American Sign Language IV		
French	French I	French II	French III	Honors French IV	AP French Language	
German	German I	German II	German III	Honors German IV	AP German Language	
Spanish	Spanish I	Spanish II	Spanish III	Honors Spanish IV	AP Spanish Language Grades: or H Spanish V	AP Spanish Literature or H Spanish IV

American Sign Language I



Course # 062095 A/B

Grade: 9-12

Prerequisite: None

Fee: \$20.00

Length: 1 year

Credits: 2 – World Language

American Sign Language (ASL) is a manual language which entails vocabulary, grammar, sentence structure, and body movement to express meaning for communication. Lessons or units also include cultural aspects to help the student understand and interact with the Deaf. Students are introduced to these aspects in units which are ordered in a manner to build upon the previous units. Lessons are structured around language needed for common life situations. Major concepts are reinforced through reading materials, video, cooperative learning activities, and long-term assignments. All assignments are introduced to fulfill District 20's standards for world language.

Notes: Air Academy High School American Sign Language is a visual-gestural language interconnected with the rich history of the Deaf culture. Students are required to attend events where they will interact with people in the Deaf Community.

College credit for this class may be available, see the teacher for more information.

American Sign Language II

Grade: 9-12

Prerequisite: Grade of "C" or higher in ASL I is recommended

Fee:\$20.00

American Sign Language (ASL) is a manual language which entails vocabulary, grammar, sentence structure as well as body movement to express meaning for communication. ASL II will build upon ASL I with units including cultural aspects to help students understand and interact with the Deaf. Lessons are structured around language needed for common life situations. All assignments are introduced to fulfill District 20's standards for world language.

Notes: Air Academy High School American Sign Language is a visual-gestural language interconnected with the rich history of the Deaf culture. Students are required to attend events where they will interact with people in the Deaf Community.

College credit for this class may be available, see the teacher for more information.

Course # 062096 A/B

Length: 1 year

Credits: 2 – World Language

American Sign Language III



Grade: 9-12

Prerequisite: Grade of "C" or higher in ASL 2 recommended.

Fee: \$20.00

American Sign Language (ASL) is a manual language which entails vocabulary, grammar, sentence structure as well as body movement to express meaning for communication. ASL III will build upon ASL II with units including cultural aspects to help students understand and interact with the Deaf. Lessons are structured around language needed for common life situations. All assignments are introduced to fulfill District 20's standards for world language.

Notes: Students will increase their receptive and expressive skills toward gaining fluency in American Sign Language using lecture, videotape, conversation, analysis of grammar and vocabulary, and idiom development. Further studies of the Deaf Culture, their community locally, nationally and around the world will be included as well as educational and linguistic issues. The course will also introduce the students to the basic skills and ethics required of an interpreter and what career paths could be available to them.

Air Academy High School American Sign Language is a visual-gestural language interconnected with the rich history of the Deaf culture. Students are required to attend events where they will interact with people in the Deaf Community.

College credit for this class may be available, see the teacher for more information.

Students with good academic standing, and who meet the requirements, are eligible to join and participate in the American Sign Language Honor Society chapter at Air Academy HS.

Course # 062097 A/B

Length: 1 year

Credits: 2 – World Language

Honors American Sign Language IV*



Grade: 9-12

Prerequisite: Grade of "C" or higher in ASL 3 recommended.

Fee:20.00

ASL IV continues from ASL I, II, and III to provide further study of American Sign Language (ASL) and its grammar, syntax and cultural features. ASL IV helps students develop competency and fluency in the language. Variations in ASL are addressed.

Students are provided with an opportunity to recognize the impact of Deaf Culture on emerging ASL literature. The course includes non-fiction, fiction, poetry, and drama depicted in reading and videotapes related to everyday lives of Deaf people. *Notes: Students will be given the opportunity to plan and participate in Deaf events in the community.*

Students will explore and discuss how ASL and the Deaf community may fit into their further studies and careers. ASL 4 helps students develop competency in the language and a deeper appreciation of the Deaf culture. The course will also address the aspects of interpreting, with a focus on settings where interpreting is required. Air Academy High School American Sign Language is a visual-gestural language interconnected with the rich history of the Deaf culture. Students are required to attend events where they will interact with people in the Deaf Community.

College credit for this class may be available, see the teacher for more information.

Students with good academic standing, and who meet the requirements, are eligible to join and participate in the American Sign Language Honor Society chapter at Air Academy HS.

Course # 062101 A/B

Length: 1 year

Credits: 2 – World Language

<p>French I Grade: 9-12 Prerequisite: None Students learn to communicate in French using various methods. Simple conversational language and grammar related to personal interests and French culture are used to draw connections and make comparisons.</p>	<p>II</p>	<p>Course # 062000 A/B Length: 1 year Credits: 2 – World Language</p>
<p>French II GRADE: 9-12 Prerequisite: Grade of “C” or higher in French I is recommended Level 2 builds on skills and knowledge of level 1 with increasing emphasis on pronunciation, intonation, and conventions, using more specialized vocabulary. Students will engage in more complex conversations. Narratives will be used to further knowledge of structural patterns and word elements.</p>	<p>II</p>	<p>Course # 062002 A/B Length: 1 year Credits: 2 – World Language</p>
<p>French III Grade: 9-12 Prerequisite: Grade of “C” or higher in French 2 is recommended In level 3, students will initiate and engage in increasingly complex conversations, express thoughts using higher level vocabulary in speaking and writing and will develop increased accuracy in grammar and written conventions. Students will communicate in a variety of cultural contexts, extracting information from authentic sources.</p>	<p>II</p>	<p>Course # 062003 A/B Length: 1 year Credits: 2 – World Language</p>
<p>Honors French IV* Grade: 9-12 Prerequisite: Grade of “C” or higher in French III is recommended In this class students will apply accumulated skills and continue to develop higher level vocabulary, sentence structures, and patterns. Students will strengthen understanding of their own language while further expanding communication skills in familiar and unfamiliar contexts. Cultural experiences and knowledge are core components of this class. <i>Notes: Through a review of grammar, a chronological survey of France’s history, film, and selected readings, students will develop a higher level of vocabulary, sentence structure and communicative patterns that will serve them well in various situations.</i></p>	<p>II</p>	<p>Course # 062006 A/B Length: 1 year Credits: 2 – World Language</p>
<p>AP French* Grade: 9-12 Prerequisite: Grade of “C” or better in French 4 and teacher recommendation The AP Examination fee is \$115.00. At the conclusion of the course the students will be expected to take the Advanced Placement exam for potential college credit. In this class, student communication, both written and oral, will be increasingly spontaneous, culturally appropriate, and developed at a higher level. Students will inquire, analyze, synthesize, and evaluate information from a variety of sources.</p>	<p>II</p>	<p>Course # 062010 A/B Length: 1 year Credits: 2 – World Language</p>
<p>German I Grade: 9-12 Prerequisite: None Students learn to communicate in German using various methods. Simple conversational language and grammar related to personal interests and German culture are used to draw connections and make comparisons.</p>	<p>II</p>	<p>Course # 062022 A/B Length: 1 year Credits: 2 – World Language</p>
<p>German II Grade: 9-12 Prerequisite: Grade of “C” or higher in German I is recommended Level 2 builds on skills and knowledge of Level 1 with increasing emphasis on pronunciation, intonation, and conventions, using more specialized vocabulary. Students will engage in more complex conversations. Narratives will be used to further knowledge of structural patterns and word elements.</p>	<p>II</p>	<p>Course # 062023 A/B Length: 1 year Credits: 2 – World Language</p>

German III

Grade: 9-12

Prerequisite: Grade of "C" or higher in German II is recommended

In level 3, students will initiate and engage in increasingly complex conversations, express thoughts using higher level vocabulary in speaking and writing and will develop increased accuracy in grammar and written conventions. Students will communicate in a variety of cultural contexts, extracting information from authentic sources.

Course # 062024 A/B

Length: 1 year

Credits: 2 – World Language

Honors German IV

II

Grade: 9-12

Prerequisite: Grade of "C" or higher in German III is recommended

In this class, students will apply accumulated skills and continue to develop higher level vocabulary, sentence structures, and patterns. Students will strengthen understanding of their own language while further expanding communication skills in familiar and unfamiliar contexts. Cultural experiences and knowledge are core components of this course.

Course # 062027 A/B

Length: 1 year

Credits: 2 – World Language

AP German Language

II

Grade: 9-12

Prerequisite: Grade of "C" or higher in German IV is recommended

The AP Examination fee is \$115.00.

In this class, student communication, both written and oral, will be increasingly spontaneous, culturally appropriate, and developed at a higher level. Students will inquire, analyze, synthesize, and evaluate information from a variety of sources. Students will have relevant discussions of original writings of famous authors, current events, and other diverse aspects of culture.

Course # 062029 A/B

Length: 1 year

Credits: 2 – World Language

Spanish I

II

Grade: 9-12

Prerequisite: None

Students learn to communicate in Spanish using various methods. Simple conversational language and grammar related to personal interests and

Spanish culture is used to draw connections and make comparisons.

Course # 062063 A/B

Length: 1 year

Credits: 2 – World Language

Spanish II

II

Grade: 9-12

Prerequisite: Grade of "C" or higher in Spanish I is recommended

Level 2 builds on skills and knowledge of Level 1 with increasing emphasis on pronunciation, intonation, and conventions, using more specialized vocabulary. Students will engage in more complex conversations. Narratives will be used to further knowledge of structural patterns and word elements.

Course # 062067 A/B

Length: 1 year

Credits: 2 – World Language

Spanish III

II

Grade: 9-12

Prerequisite: Grade of "C" or higher in Spanish II is recommended

In Level 3, students will initiate and engage in increasingly complex conversations, express thoughts using higher level vocabulary in speaking and writing and will develop increased accuracy in grammar and written conventions. Students will communicate in a variety of cultural contexts, extracting information from authentic sources.

Course # 062071 A/B

Length: 1 year

Credits: 2 – World Language

Honors Spanish IV*

Grade: 9-12

Prerequisite: Grade of "C" or better in Spanish III and teacher recommendation

In this class, students will improve vocabulary knowledge, grammar usage, and communication skills. Students deepen understanding of cultural differences.

Course # 062081 A/B

Length: 1 year

Credits: 2 – World Language

Honors Spanish V***II**

Grade: 9-12

Prerequisite: Grade of "C" or better in Spanish III and teacher recommendation

In this class, students will improve vocabulary knowledge, grammar usage, and communication skills through regular in-class conversational Spanish use. Students deepen understanding of cultural differences.

Course # 062082 A/B

Length: 1 year

Credits: 2 – World Language

AP Spanish Language***II**

Grade: 9-12

Prerequisite: Grade of "C" or better in Spanish IV and teacher recommendation

Course # 062083 A/B

Length: 1 year

Credits: 2 – World Language

The AP Examination fee is \$115.00

At the conclusion of the course the students will be expected to take the Advanced Placement exam for potential college credit. In this class, student communication, both written and oral, will be increasingly spontaneous, culturally appropriate, and developed at a higher level. Students will inquire, analyze, synthesize, and evaluate information from a variety of sources.

Notes: This class will focus on preparing the students for the AP Spanish Language exam and will include an emphasis on grammatical accuracy.

AP Spanish Literature

Grade: 9-12

Prerequisite: Grade of "C" or better in AP Spanish Language or Spanish IV recommended that students be simultaneously enrolled in AP English Literature

Fee: No Fee

Course # 062085 A/B

Length: 1 year

Credits: 2 – World Language It is

The AP Examination fee is \$115.00

At the conclusion of the course the students will be expected to take the Advanced Placement exam for potential college credit. Students will have relevant discussions of original writings of famous authors, current events, and other diverse aspects of culture.

Notes: Students will read a selection of literature in Spanish determined by the Advanced Placement testing program beginning with the Middle Ages and continuing through to the Twentieth century. Students will be able to write a literary analysis in Spanish of poetry, prose, focusing on the themes and literary devices. Students finishing this class will be prepared to take the Spanish Literature AP exam in May and to further pursue the study of literature in Spanish at the university level.

Unrestricted Electives

List of Unrestricted Electives

Course #	Course Name	Course #	Course Name
040010 A/B	Adv Mktg/DECA	030020 A/B	Introduction to Business
089115 A/B	AF Jr ROTC 4	191001	LeadWorthy
033300	Business Law	191002	LeadWorthy 2
191132	Career Explor. & Internship	191060 A/B	Life Academic
040021	Creative Marketing 1/DECA	090005 A/B	Life Skills
109085 A/B	Digital Media	040000 A/B	Marketing 1/DECA
109050 A/B	Elect Media Prod 1	040005 A/B	Marketing 2/DECA
191095 A/B	Electronic Media 2	191035 A/B	Peer Partner
191092 A/B	Electronic Media 3	191007 A/B	Peer Tutor
191093 A/B	Electronic Media 4	109062 A/B	Performance and Communications
191015 A/B	Elementary School Helpers	034800	Personal Finance
191008	Ethical Leadership	191115 A/B	PILOTS
190040 A/B	Flight	108407 A/B	Principles of Flight
109060 A/B	Found. Des, Multi Med Arts, Dig Com	040075 A/B	Principles of Marketing
191100 A/B	Guided Study Hall	040095	School-Based Enterprise-Retail
108405 A/B	H Aerospace Eng*	040095 A/B	School-Based Enterprise-Retail
103016 A/B	H Civil Eng/ Arch*	040032	Sports Ent Mktg 1
169001 A/B	H Comp Integrated Manuf (CIM)*	191045 A/B	Student Assistant
160020 A/B	H Computer Science Principles*	191080 A/B	Student Government
104009 A/B	H Dig Elec*	191065 A/B	Teacher Assistant
103041 A/B	H Eng Design and Dev*	081500	Teen Choices
103036 A/B	H Intro Eng Design*	109090 A/B	Television Production
108410 A/B	Honors Advanced Flight*	108470	WBL in Aviation
108420 A/B	Intro to Aviation & Aerospace		

Core Electives

List of Core Electives

Course Number	Course Name	Course Number	Course Name
191265 A/B	Academic Support	053900	Film as Lit 1
089100 A/B	AF Jr ROTC 1	103051 A/B	H Princ of Eng*
089105 A/B	AF Jr ROTC 2	054305 A/B	Journalism
089110 A/B	AF Jr ROTC 3	119005 A/B	Math Lab
111115 A/B	Alg 1 Lab	053500	Mythology
054200	Creative Writing 1	051105 A/B	Reading Lab 1
054205	Creative Writing 2	055000	Speech
051100	Enrich Rdg	054900 A/B	Yearbook

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AFJROTC Aerospace Science/Leadership Education 2.....	23	Digital Photography 2.....	30
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AP Calculus BC*.....	46	Fitness Yoga 1.....	54
AP English Language and Composition*.....	40	Fitness Yoga 2.....	54
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AP European History*.....	66	Forensic Science 2.....	61
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