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

The mission of Academy School District 20 is to educate every student in a safe and nurturing environment and to provide comprehensive, challenging curricular and extracurricular opportunities that meet the unique needs of every individual by expanding interests, enhancing abilities, and equipping every student with the knowledge, skills and character essential to being a responsible citizen of our community, our nation and the world.

WE BELIEVE:

An educated citizenry is the cornerstone of a democratic republic.
Every individual has innate worth and is entitled to be treated with respect.
Learning is a lifelong endeavor.
Every individual can learn and does so in a variety of ways.
The education of each student is a responsibility shared by students, families, schools, and communities.
Parents have both the right and the responsibility to choose the school, curriculum, and program(s) that best meet the needs of their student(s).
The development of virtuous character is equal in importance to academic growth and critical to developing responsible citizens of our community, our nation, and the world.
Whether in the classroom or at home, students achieve best in a nurturing environment where physical, intellectual, and emotional health is emphasized, and safety is assured.
Students must be held to the highest standards of academic achievement while recognizing the true success of our academic program is measured by the success of each student relative to his or her unique potential and individual progress.
Every graduate must be fully prepared for the post-graduation path of his or her choice.
Every student, staff member, and volunteer is responsible for the effective and efficient use of supplies, facilities, and financial resources.
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 in order 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.

**Special markings in this guide:**
- Indicates that students may take course 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 meets HEAR requirements. (Pages 5-7)
- Indicates that the course has approved for weighted status at AAHS. They include:
  - All Advanced Placement Courses
  - All AAHS Honors Courses Calculus 3
  - Organic Chemistry

**NEW STUDENTS to the district should:**
1. Register at the District Twenty Central Administration Office (central registry) located at 1110 Chapel Hills Drive, Colorado Springs, CO 80920, (719-234-1200).
2. Call Air Academy High School (719-234-2400) to make an appointment with the designated counselor.

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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 Deputy Superintendent.

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credits</th>
<th>Special Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>8</td>
<td>Four of the six credits must be from laboratory science classes.</td>
</tr>
<tr>
<td>Science</td>
<td>6</td>
<td>All Students must complete Algebra 1 and Geometry (either in middle school or in high school). All students must earn six math credits during grades 9-12.</td>
</tr>
<tr>
<td>Mathematics</td>
<td>6</td>
<td>High school level world language courses taken in middle school may apply to this requirement but will not count toward the requirement of fifty total credits. When applying middle school world language credits to meet this requirement, two additional core elective credits must be earned.</td>
</tr>
<tr>
<td>Social Science</td>
<td>6</td>
<td>Social Science requirements include two required credits of U.S. History and one credit of Civics.</td>
</tr>
<tr>
<td>World Language</td>
<td>2</td>
<td>Core elective requirements include courses in English, world language, mathematics, science, and social science.</td>
</tr>
<tr>
<td>Core Electives</td>
<td>6</td>
<td>Arts requirements include visual and performing arts and Interior Design.</td>
</tr>
<tr>
<td>Physical Education</td>
<td>3</td>
<td>Unrestricted Electives</td>
</tr>
<tr>
<td>Health</td>
<td>1</td>
<td>Credits earned beyond the requirements listed above will count as unrestricted elective credit.</td>
</tr>
<tr>
<td>Arts/Interior Design</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL** 50

**Changes beginning with the class of 2021:**

<table>
<thead>
<tr>
<th>Demonstration of Proficiency</th>
<th>English Minimum</th>
<th>Math Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAT</td>
<td>470</td>
<td>500</td>
</tr>
<tr>
<td>ACT</td>
<td>18</td>
<td>19</td>
</tr>
<tr>
<td>Advanced Placement</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>ASVAB</td>
<td>31</td>
<td>31</td>
</tr>
<tr>
<td>Concurrent Enrollment</td>
<td>Grade of C-</td>
<td>Grade of C-</td>
</tr>
<tr>
<td>Capstone project</td>
<td>Passing Grade</td>
<td>Passing Grade</td>
</tr>
<tr>
<td>ACT WorkKeys</td>
<td>Bronze</td>
<td>Bronze</td>
</tr>
<tr>
<td>International Baccalaureate</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Industry Certification</td>
<td>Certificate</td>
<td>Certificate</td>
</tr>
<tr>
<td>State Assessments</td>
<td>State scoring criteria</td>
<td>State scoring criteria</td>
</tr>
</tbody>
</table>
ATTENTION: All Colorado four-year public colleges and universities will expect all applicants to have completed the Pre-Collegiate Curriculum Requirements located in this guide. Meeting the Higher Education Admission Requirements does not guarantee admission to a four-year public institution. Colleges and universities may have additional requirements (especially for additional foreign language credits). Please visit individual college websites or contact the schools for all the specifics.

**Correspondence Courses:** AAHS allows a maximum of six (6) credits outside of District 20 offerings to count towards Graduation Requirements. Student 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.

**Repeating Courses:** Only selected courses may be repeated for credit. (see pg 18) Refer to the course descriptions and/or contact your counselor. If a student chooses to repeat a course, both grades will appear on the student’s transcript and will be averaged into the Cumulative Grade Point Average (grade points are divided by credit points).

**Statement of Discipline:** AAHS reports to colleges all suspensions and expulsions. Note: Air Academy High School students are asked to waive their right to see counselor and teacher recommendations letters.

**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.

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### HIGHER EDUCATION ADMISSIONS REQUIREMENTS 2018-2019

In 2012-2013, the state required each district to map their courses to a State Code for the Exchange of Data (SCED). This mapping created new course numbers for some courses, which in turn caused a new HEAR document to be created. The information below applies to any course taken in an Academy School District 20 high school in the 2012-2013 school year or later. There is a separate HEAR document for any course taken in Academy School District 20 high schools prior to the 2012-2013 school year.

In 2003 Colorado established Higher Education Admissions Requirements for students who plan to attend any of Colorado’s public four-year colleges or universities. Private colleges and universities set their own admissions standards; students should contact those institutions directly for information regarding their policies. Public two-year colleges (e.g., Pikes Peak Community College) have open enrollment policies, meaning that students applying to these schools do not need to meet the following admissions requirements.

Students planning to attend a four-year college or university in will need to complete the following classes to fulfill the Higher Education Admissions Requirements. Additionally, they will need to find out from the colleges, to which they are applying, what GPA and ACT or SAT scores they require and if there are other courses outside of the Higher Education Admissions Requirements that must also be completed for admission. The Higher Education Admissions Requirements have been established in addition to the Admissions Eligibility Index (which you can find online at [http://highered.colorado.gov/Publications/Policies/Current/i-parti-index.pdf](http://highered.colorado.gov/Publications/Policies/Current/i-parti-index.pdf)).

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<table>
<thead>
<tr>
<th>ACADEMIC AREA</th>
<th>HS GRADUATES 2010+</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH**</td>
<td>4 units* (8 D20 credits)</td>
</tr>
<tr>
<td>MATHEMATICS (Algebra I level and higher)***</td>
<td>4 units* (8 D20 credits)</td>
</tr>
<tr>
<td>NATURAL/PHYSICAL SCIENCES (2 units must be lab-based)****</td>
<td>3 units* (6 D20 credits)</td>
</tr>
<tr>
<td>SOCIAL SCIENCES (at least 1 unit of U.S. or world history)</td>
<td>3 units* (6 D20 credits)</td>
</tr>
<tr>
<td>FOREIGN LANGUAGE</td>
<td>1 unit* (2 D20 credits) of same language</td>
</tr>
<tr>
<td>ACADEMIC ELECTIVES*****</td>
<td>2 units* (4 D20 credits)</td>
</tr>
<tr>
<td>TOTAL</td>
<td>17 units* (34 D20 credits)</td>
</tr>
</tbody>
</table>

* One unit is equal to one full year of credit in a specific subject.
** Acceptable Academic Electives include at least two units that emphasize writing or composition skills as well as literature, speech, and debate. Also acceptable are honors, advanced placement, and/or international baccalaureate courses. Two units of ESL English may count towards meeting the requirements when combined with two units of successfully completed college preparatory English.
*** At a minimum, courses must include Algebra I, Geometry, and Algebra II or equivalents. College preparatory ESL mathematics courses that include content and academic rigor/level comparable to other acceptable courses may satisfy HEAR requirements.
**** Acceptable courses include biology, chemistry, physics, earth science or comparable coursework. College preparatory ESL science courses that include content and academic rigor/level comparable to other acceptable courses may satisfy HEAR requirements.
***** Acceptable Academic Electives include additional courses in English, mathematics, natural/physical sciences, social sciences, foreign language, art, music, drama, journalism, computer science, honors, advanced placement, International Baccalaureate courses, and appropriate CTE courses.

The CCHE has further described the types of courses that meet their requirements by indicating that they need to be “sufficiently challenging to be college-preparatory” and that they need to fit “in a logical sequence of courses leading to higher and more rigorous course work.” For a fuller explanation of the criteria, contact your counselor or go to the CCHE website at [http://highered.colorado.gov](http://highered.colorado.gov).
<table>
<thead>
<tr>
<th>ENGLISH</th>
<th>MATHEMATICS</th>
<th>SCIENCE</th>
<th>SOCIAL SCIENCE</th>
<th>WORLD LANGUAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>050025 Comp &amp; Lit 4</td>
<td>110065 Extended Studies-Adv. Math Learners</td>
<td>130008 Prin of Chemistry and Physics</td>
<td>151000 Sociology</td>
<td>062000 French 1</td>
</tr>
<tr>
<td>053105 H Fresh Lit and Comp</td>
<td>111100 Algebra 1</td>
<td>132000 Anatomy and Physiology</td>
<td>152300 Colorado</td>
<td>062002 French 2</td>
</tr>
<tr>
<td>053107 H AI Fresh Lit and Comp</td>
<td>111200 Algebra 2</td>
<td>132015 Biology</td>
<td>153000 Economics</td>
<td>062003 French 3</td>
</tr>
<tr>
<td>053115 World Lit and Comp</td>
<td>111205 H Algebra 2</td>
<td>132020 H Biology</td>
<td>154000 World Reg Geography</td>
<td>062006 H French 4</td>
</tr>
<tr>
<td>053120 H World Lit and Comp</td>
<td>119000 Adv Algebra and Financial Apps</td>
<td>132025 AP Biology</td>
<td>154004 H World Reg Geography</td>
<td>062010 AP French</td>
</tr>
<tr>
<td>053145 American Lit and Comp</td>
<td>112100 Business Finance 1</td>
<td>132410 AP Environmental Science</td>
<td>154007 H AI World Reg Geography</td>
<td>062022 German 1</td>
</tr>
<tr>
<td>053150 H American Lit and Comp</td>
<td>112105 Business Finance 2</td>
<td>133115 Chemistry</td>
<td>154020 AP Human Geography</td>
<td>062023 German 2</td>
</tr>
<tr>
<td>053175 AP Eng Lang and Comp</td>
<td>13300 Pre-Calculus</td>
<td>133120 H Chemistry</td>
<td>155000 AP European History</td>
<td>062024 German 3</td>
</tr>
<tr>
<td>053180 H Senior Comp and Lit</td>
<td>133100 AP Calculus AB</td>
<td>133125 AP Chemistry</td>
<td>155100 20th Century American History</td>
<td>062058 Russian 1</td>
</tr>
<tr>
<td>054000 AP Eng Lit and Comp</td>
<td>132200 AP Calculus BC</td>
<td>133200 Physics</td>
<td>062110 Russian 2</td>
<td>062063 Spanish 1</td>
</tr>
<tr>
<td>055000 Speech</td>
<td>139000 Calculus III: Multivariable Calculus</td>
<td>133205 H Physics</td>
<td>062067 Spanish 2</td>
<td>062071 Spanish 3</td>
</tr>
<tr>
<td>055100 Forensics/Speech/ Debate 1</td>
<td>160000 Applied Geometry*</td>
<td>133305 AP Physics</td>
<td>062081 H Spanish 4</td>
<td>062083 AP Spanish Lang</td>
</tr>
<tr>
<td>055105 Adv For/Speech/ Debate 2</td>
<td>161000 Geometry</td>
<td>134000 Earth Science</td>
<td>062085 AP Spanish Lit</td>
<td>062095 American Sign Lang I</td>
</tr>
<tr>
<td>056010 American Sign Lang I</td>
<td>162000 Applied Calculus</td>
<td>134010 H Earth Science</td>
<td>062096 American Sign Lang II</td>
<td>062097 American Sign Lang III</td>
</tr>
<tr>
<td>062015 Linear Algebra</td>
<td>134012 H AI Earth Science</td>
<td>135000 H World History/Geography</td>
<td>062101 H American Sign Lang IV</td>
<td>062105 Aviation</td>
</tr>
</tbody>
</table>
| 062016 AP Calculus | 135900 Forensic Science 1 | 135910 H World History/Geography | 062105 Aviation | |}

**NOTES:**

*When this course is taken as part of a logical sequence leading to higher and more rigorous college-preparatory coursework (e.g. when Applied Geometry leads to Algebra 2), it may be interpreted at certain institutions as meeting the requirements.

**When Algebra 1 content is extended beyond one year (e.g. Algebra 1, Part A and Algebra 1, Part B), only one Carnegie unit of the pre-collegiate requirements is met.

### ACADEMIC ELECTIVES

<table>
<thead>
<tr>
<th>ENGLISH, MATHEMATICS, SCIENCE, SOCIAL SCIENCES, WORLD LANG.</th>
<th>ART, DRAMA, MUSIC</th>
<th>CAREER AND TECHNICAL EDUCATION, COMPUTER SCIENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>050011 Enrichment Reading</td>
<td>020000 Art 1</td>
<td>020005 Art 2</td>
</tr>
<tr>
<td>053500 Mythology</td>
<td>020010 Art 3</td>
<td>020015 Art 4</td>
</tr>
<tr>
<td>059000 Film as Literature 1</td>
<td>020030 H Art</td>
<td>020035 AP Studio Art</td>
</tr>
<tr>
<td>054000 French 1</td>
<td>022010 Art History</td>
<td>022015 Art History</td>
</tr>
<tr>
<td>054025 Creative Writing 2</td>
<td>020030 H Art</td>
<td>020035 AP Studio Art</td>
</tr>
<tr>
<td>054305 Journalism</td>
<td>022012 AP Art History</td>
<td>022015 Art History</td>
</tr>
<tr>
<td>059005 Comparative Religions</td>
<td>020030 H Art</td>
<td>020035 AP Studio Art</td>
</tr>
<tr>
<td>059020 Explor in Western Philosophy</td>
<td>022300 Art in Public Places I</td>
<td>022305 Art in Public Places II</td>
</tr>
<tr>
<td>134105 Astronomy 1</td>
<td>022300 Art in Public Places I</td>
<td>022305 Art in Public Places II</td>
</tr>
<tr>
<td>134110 Astronomy 2</td>
<td>023000 Ceramics 1</td>
<td>023000 Ceramics I</td>
</tr>
<tr>
<td>134205 Environmental Science</td>
<td>023005 Ceramics 2</td>
<td>023005 Ceramics 2</td>
</tr>
<tr>
<td>139040 Science Olympiad</td>
<td>023010 Ceramics 3</td>
<td>023010 Ceramics 3</td>
</tr>
<tr>
<td>155105 Multi-Cultural America</td>
<td>023015 Ceramics 4</td>
<td>023015 Ceramics 4</td>
</tr>
<tr>
<td>157125 Street Law</td>
<td>026010 Computer Animation</td>
<td>026010 Computer Animation</td>
</tr>
<tr>
<td>157310 International Relations</td>
<td>026050 Digital Photography 1</td>
<td>026050 Digital Photography 1</td>
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<tr>
<td></td>
<td>026055 Digital Photography 2</td>
<td>026055 Digital Photography 2</td>
</tr>
<tr>
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<td>026060 Digital Photography 3</td>
<td>026060 Digital Photography 3</td>
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<td>056625 Theatre 1</td>
<td>056625 Theatre 1</td>
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<td>056630 Theatre 2</td>
<td>056630 Theatre 2</td>
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<td>056635 Theatre 3: Advanced Acting</td>
<td>056635 Theatre 3: Advanced Acting</td>
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<td>056640 Theatre 4: Directing</td>
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<td>060020 French 1</td>
<td>060020 French 2</td>
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<tr>
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<td>060030 French 3</td>
<td>060060 H French 4</td>
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<td>060080 H French 5</td>
<td>060100 AP French</td>
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<td>060223 German 2</td>
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<td></td>
<td>060258 Russian 1</td>
<td>060259 Russian 2</td>
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<td>060263 Spanish 1</td>
<td>060267 Spanish 2</td>
</tr>
<tr>
<td></td>
<td>060271 Spanish 3</td>
<td>060281 H Spanish 4</td>
</tr>
<tr>
<td></td>
<td>060283 AP Spanish Lang</td>
<td>060285 AP Spanish Lit</td>
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<tr>
<td></td>
<td>060295 American Sign Lang I</td>
<td>060296 American Sign Lang II</td>
</tr>
<tr>
<td></td>
<td>060297 American Sign Lang III</td>
<td>060297 American Sign Lang III</td>
</tr>
<tr>
<td></td>
<td>060298 American Sign Lang IV</td>
<td>060298 American Sign Lang IV</td>
</tr>
</tbody>
</table>

* HB 05-1057

Enacted in 2005, HB 05-1057 requires districts to provide to parents a list of courses the district has available that satisfy the CCHE’s Admission Guidelines. The following Academy District 20 courses meet those criteria:
FREQUENTLY ASKED QUESTIONS
For more detail, go to http://highered.colorado.gov/Academics/Admissions/faq.html

Q: Will completion of the pre-collegiate course requirement as part of finishing my high school requirements guarantee my admission to a four-year college or university in Colorado?
A: No. The pre-collegiate course requirement is an addition to the CCHE Admissions Standards Policy for public higher education institutions. All four-year public institutions in Colorado have selective admission requirements articulated in the Admissions Standards Policy. Further, colleges and universities may have institutional admissions requirements that go beyond the pre-collegiate courses and the selective admissions standards established for each institution. Students are advised to work closely with the admissions staff at the college/university of choice for complete information about admission requirements. Keep in mind that all two-year colleges in Colorado have open admissions policies. The pre-collegiate admissions requirements do not apply to students entering a community college or to students entering Metropolitan State College of Denver if they are 20 years old or older.

Q: I have a disability. Will I have to complete the pre-collegiate Admissions Requirements?
A: Yes. The pre-collegiate course requirements and the selective admissions standards will be factors in the admission decision for all students, even if an identified disability has resulted in a modified high school curriculum. In accordance with Section 504 of the Rehabilitation Act of 1973 (Section 504) and Title II of the Americans with Disabilities Act of 1990 (Title II), Colorado’s collegiate institutions do not discriminate on the basis of the presence of a disability. However, to qualify for academic accommodations at a postsecondary institution, students with disabilities must first meet the institution’s “essential admissions requirements.” The pre-collegiate curriculum constitutes an essential admission requirement. For more information about the federal guidelines regarding students with disabilities in the college/university setting, go to http://www.ed.gov/about/offices/list/ocr/transition.html.

Q: What options do I have if I haven’t completed the pre-collegiate course requirements and I graduate in spring 2008 or later?
A: You have at least three. You may qualify for admission to a Colorado public four-year institution even if you haven’t completed the prescribed pre-collegiate courses. Institutions may make an exception and admit a specific percentage of students based on criteria other than the pre-collegiate Admissions Requirements and the CCHE freshmen index. A second option is to enroll in a community college, all of which have open admissions, and, after successfully completing a college-level course in each of the four academic areas (i.e., English, mathematics, natural science, and social science), apply for admission to a four-year public institution as a transfer student. Finally, CCHE will identify assessment options by June 2006, which you may substitute for specific courses of the pre-collegiate Admissions Requirements once they are adopted by the Commission.

Q: What are some other things I should do while I’m in high school to prepare me for college?
A: Do your best in your classes. Keep in mind that most colleges give preference to students who challenge themselves throughout high school over those who take easier classes and get a higher grade point average. Explore whether you want to take Advanced Placement courses or pursue an International Baccalaureate diploma program. You may also want to enroll for dual credit classes that allow you to earn college credit while in high school through the Post-Secondary Enrollment Options Program. Your school counselor can provide you with details on each of these opportunities. Get involved in activities such as clubs, music, sports, and/or volunteer work. When you have an opportunity, try some leadership roles in these activities.
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 college websites and viewbooks, attend college fairs, and visit with college representatives. Consult with the College/Career Counseling office for information on how to access these resources.

PATHWAYS TO EXCELLENCE

To gain admission to the most selective colleges or universities (i.e. Princeton, Cornell Stanford Northwestern, Duke, Notre Dame, etc.). Remember; the more challenging and rigorous courses are always preferred by these colleges and universities. In addition to taking these courses, colleges and universities will also consider participation in activities, GPA and test scores (college entrance exams) community service and leadership.

<table>
<thead>
<tr>
<th></th>
<th>Freshman Year</th>
<th>Sophomore Year</th>
<th>Junior Year</th>
<th>Senior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English</strong></td>
<td>Honors Freshman Lit &amp; Comp</td>
<td>Honors World Lit &amp; Comp, Honors World Studies</td>
<td>AP Lang &amp; Comp, Honors American Lit &amp; Comp</td>
<td>AP Lit &amp; Comp</td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td>Geometry, Honors Algebra 2</td>
<td>Honors Algebra 2, Honors Pre-Calculus, Functions-Stats-Trig</td>
<td>Honors Pre-Calculus, Functions-Stats-Trig, AP Statistics, AP Calculus (AB or BC)</td>
<td>Honors Pre-Calculus, Functions-Stats-Trig, AP Statistics, AP Calculus (AB or BC)</td>
</tr>
<tr>
<td><strong>Science</strong></td>
<td>Honors Biology</td>
<td>Honors Chemistry</td>
<td>Honors Chemistry, Honors Physics, AP Biology, AP Chemistry, AP Physics, AP Environmental Science</td>
<td>AP Chemistry, Honors Physics, AP Physics, AP Biology, AP Environmental Science</td>
</tr>
<tr>
<td><strong>Social Studies</strong></td>
<td>Honors World Reg Geography</td>
<td>Honors World History, Honors World Studies</td>
<td>AP US History</td>
<td>Civics AND AP European History, AP Government &amp; Politics AND AP European History</td>
</tr>
<tr>
<td><strong>World Language</strong></td>
<td>Level 1 or 2 of selected language</td>
<td>Level 2 or 3 of selected language</td>
<td>Level 3 or 4 of selected language</td>
<td>Level 4 (Honors) or 5 (AP) level of selected language</td>
</tr>
</tbody>
</table>

To gain admission to a highly selective college or university (i.e. CU-Boulder; Tulane, Colorado College, Boston College, Gonzaga University, Colorado School of Mines, etc.). Remember that the more challenging and rigorous courses are always preferred for these college and university programs.

<table>
<thead>
<tr>
<th></th>
<th>Freshman Year</th>
<th>Sophomore Year</th>
<th>Junior Year</th>
<th>Senior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English</strong></td>
<td>Honors Freshman Lit &amp; Comp</td>
<td>World Lit &amp; Comp, Honors World Lit &amp; Comp, Honors World Studies</td>
<td>Honors American Lit &amp; Comp, AP Lang &amp; Comp</td>
<td>Honors Senior Lit &amp; Comp, AP Lit &amp; Comp</td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td>Algebra 1, Geometry, Honors Algebra 2</td>
<td>Honors Algebra 2, Pre-Calculus, Honors Pre-Calculus, Functions-Stats-Trig</td>
<td>Honors Pre-Calculus, Functions-Stats-Trig, AP Statistics, AP Calculus (AB or BC)</td>
<td>Honors Pre-Calculus, Functions-Stats-Trig, AP Statistics, AP Calculus (AB or BC)</td>
</tr>
<tr>
<td><strong>Science</strong></td>
<td>Honors Earth Science, Honors Biology</td>
<td>Honors Biology, Honors Chemistry, Honors Chemistry</td>
<td>Honors Chemistry, Honors Physics, AP Biology, AP Chemistry, AP Physics, AP Environmental Science</td>
<td>AP Biology, Honors Chemistry, Honors Physics, AP Physics, AP Environmental Science</td>
</tr>
<tr>
<td><strong>World Language</strong></td>
<td>Level 1 or 2 of selected language</td>
<td>Level 2 or 3 of selected language</td>
<td>Level 3 or 4 of selected language</td>
<td>Level 4 or 5 (AP) level of selected language</td>
</tr>
</tbody>
</table>
To gain admission to a **selective college or university** (i.e. CSU, UCCS, UNC, ASU, BYU, etc.). Remember that the more challenging and rigorous courses are always preferred by colleges and universities. Take Honors level classes in subjects that are your strengths.

<table>
<thead>
<tr>
<th></th>
<th>Freshman Year</th>
<th>Sophomore Year</th>
<th>Junior Year</th>
<th>Senior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English</strong></td>
<td>Freshman Lit &amp; Comp</td>
<td>World Lit &amp; Comp</td>
<td>American Lit &amp; Comp</td>
<td>Comp &amp; Lit 4</td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td>Algebra 1, Algebra 2, Algebra 2, Algebra 2, Honors Algebra 2</td>
<td>Geometry, Geometry, Algebra 2, Honors Algebra 2</td>
<td>Algebra 2, Pre-Calculus, Functions-Stats-Trig</td>
<td>Algebra 2, Pre-Calculus, Functions-Stats-Trig</td>
</tr>
<tr>
<td><strong>Science</strong></td>
<td>Earth Science, Biology, Honors Biology</td>
<td>Biology, Honors Biology</td>
<td>Chemistry, Forensic Science</td>
<td>Physics, Forensic Science</td>
</tr>
<tr>
<td><strong>Social Studies</strong></td>
<td>World Reg Geography, Honors World Reg Geography</td>
<td>World History</td>
<td>US History</td>
<td>Civics AND other choices offered by Social Studies</td>
</tr>
<tr>
<td><strong>World Language</strong></td>
<td>Level 1 or 2 of selected language</td>
<td>Level 2 or 3 of selected language</td>
<td>(Recommended) Level 3 or 4 of selected language</td>
<td>(Optional) continue if possible</td>
</tr>
</tbody>
</table>

To gain admission to a **four-year college or university** (i.e. Mesa State, CSU-Pueblo, Western State, Fort Lewis, etc).

<table>
<thead>
<tr>
<th></th>
<th>Freshman Year</th>
<th>Sophomore Year</th>
<th>Junior Year</th>
<th>Senior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English</strong></td>
<td>Freshman Lit &amp; Comp</td>
<td>World Lit &amp; Comp</td>
<td>American Lit &amp; Comp</td>
<td>Comp &amp; Lit 4</td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td>Algebra 1, Geometry</td>
<td>Geometry, Algebra 2</td>
<td>Algebra 2, Pre-Calculus, Functions-Stats-Trig</td>
<td>Algebra 2, Pre-Calculus, Honors Pre-Calculus</td>
</tr>
<tr>
<td><strong>Science</strong></td>
<td>Earth Science, Honors Earth Science</td>
<td>Biology, Honors Biology</td>
<td>Chemistry, Forensic Science</td>
<td>Physics, Forensic Science</td>
</tr>
<tr>
<td><strong>Social Studies</strong></td>
<td>World Reg Geography, Honors World Reg Geography</td>
<td>World History</td>
<td>US History</td>
<td>Civics AND other choices offered by Social Studies</td>
</tr>
<tr>
<td><strong>World Language</strong></td>
<td>Level 1 recommended</td>
<td>Level 2 recommended</td>
<td>Optional</td>
<td>Optional</td>
</tr>
</tbody>
</table>

**2019-2020 AP COURSES OFFERED AT AAHS**

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Literature</td>
<td>Calculus AB</td>
</tr>
<tr>
<td>English Language</td>
<td>Calculus BC</td>
</tr>
<tr>
<td>Spanish Literature</td>
<td>United States History</td>
</tr>
<tr>
<td>Spanish Language</td>
<td>European History</td>
</tr>
<tr>
<td>French Language</td>
<td>Government and Politics: United States</td>
</tr>
<tr>
<td>Statistics</td>
<td>Human Geography</td>
</tr>
</tbody>
</table>

**AP TEST DATES WILL BE PUBLISHED IN THE STUDENT HANDBOOK. AP test registration will begin in February. Your teachers will have instructions.**

**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
- Appropriate Assistant Principal approval
- Principals’ 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.
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 one class 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 Thursday so that any discrepancies can be taken care of by 3 PM that Monday. 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 particular student/athlete will be allowed to practice during the ineligible time period.

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 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 bona fide 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 bona fide 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 certified to play sports at the Division I or II levels, you must:

- Register with the NCAA at www.eligibilitycenter.org
- Complete the on-line registration and pay the registration fee anytime during your sophomore or junior year in high school.
- Request official transcripts be sent directly from every high school you have attended. (The NCAA would like your transcripts with six semesters of courses listed—end of your junior year)
- Take an ACT or SAT second semester of junior year and have your test scores sent directly from ACT or SAT to the NCAA (The NCAA’s school code is 9999. You can send in multiple ACT and SAT scores.)
- For Division I athletics, earn a grade point average of at least 2.3 in approved core classes completed during grades 9-12. For Division II athletics, earn a grade point average of at least 2.2 Only NCAA approved classes can be used to calculate the GPA. Check AAHS approved core list on the NCAA website. A minimum of 16 core credits must be earned to be eligible to play Division I or Division II athletics. Ten core-credits must be completed by the start of the seventh semester. Seven of these 10 core-credits must be in English, Math, and/or Natural/Physical Science.
- Earn specific scores on the ACT or SAT based on your cumulative core GPA. (It is based on a sliding scale where the higher your core GPA, the lower your ACT score can be. The sliding scale is available on NCAA’s website).

Website links: www.eligibilitycenter.org for much more information. (Look for the “Guide to the College Bound Athlete.”)

Please Note: Most online and correspondence courses (e.g., BYU Independent Study courses) are not on the NCAA approved course list for Division 1 or 2 college athletics.
GRADING SYSTEMS IN THE HIGH SCHOOL PROCEDURE

As stated in District Administrative Policy IKAA-R, students who successfully pass a course approved for weighted grade status will receive 1 extra grade point per credit for that course*. All Advanced Placement (AP) and International Baccalaureate (IB) automatically qualify for weighted grade status. Other courses will be added as they meet the standards for weighted status. Weighted transfer credits will only be weighted if the course carries a similar title or description AND is offered as a weighted course at the receiving D20 High School. All Advanced Placement or International Baccalaureate transfer courses will be weighted. When a new course is determined to be weighted, it will not apply to any current high school students. The next entering freshman class, and succeeding classes, will have newly weighted courses count toward their GPA. No more than 15% of all courses offered by a high school may be weighted at any one time.

Academy District 20 high schools use letter grades to transfer grades for out of district students. 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. The district honors the letter grades listed on official transcripts of accredited schools. Beginning with the class of 2016 and subsequent classes, 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.

See page 19 for a list of approved weighted courses at AAHS

*based on a 5-point scale. This extra point will be calculated with all other course grades, which are calculated on a 4-point scale

Academy District 20 Online Program Enrollment Process School Year 2019-2020

The enrollment process should be completed by the end of the second week of classes. Final course availability to be determined based on demand. Any questions regarding enrollment can be directed to Nathan Gorsch, Online Program Administrator, at nathan.gorschasd20.org or 719-234-1717. You can learn more about Academy Online at www.asd20.org/aohs. Use the link “course information” for a list of available classes.

D20 Online High School

Online course offerings are available through District 20. Here is some information to help you decide if an online class is right for you.

How does an online class work?

Online classes are not “work at your own pace” classes. Online program students are expected to attend and participate in their online courses at least as fully as they would attend and participate in a traditional classroom course. Students are expected to log into their online course at least as indicated by the instructor. Students can expect to put in the same number of hours as they would a classroom based course.

Is there homework?

Yes. Between online work and offline work, students should expect the same amount of class work for online classes as any other class they are taking. Homework is to be completed by assigned deadlines. If work is going to be late, it is the responsibility of the student to contact the instructor.

Do I take the class at school?

No. AAHS will not set up time for you to complete your online class during school hours. AAHS does not guarantee time to work on online classes during the school day.

Why would I take an online class?

- If you are an AAHS student and there is a class you would like to take that AAHS DOES NOT offer, you might find an online class that you really want to take.
- If you are an AAHS student and a class that is offered only one time at AAHS prevents you from taking another class that is also offered one time. (For example: If both Band and Algebra 3 are offered at the same time we can schedule you for band and you may take Algebra 3 online).

Is there a fee?

There is no charge for online classes as long as your class load does not exceed 8 total (in building and online).
Schedule Change Policy

Developing student responsibility is a goal that helps guide educational decision-making. Since students have the opportunity to pick most of their classes and build their schedules, it is expected that they will give careful consideration to this process and be responsible for the decisions they make.

SCHEDULE CHANGES COULD AFFECT YOUR ATHLETIC/ACTIVITIES ELIGIBILITY.

**WEEK 1**

New students will be registered. Schedule changes for other 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**

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 need and space availability are also considerations.

<table>
<thead>
<tr>
<th>Acceptable Reasons for Schedule Changes</th>
<th>Unacceptable Reasons for Schedule Changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic misplacement</td>
<td>Requests for teacher change</td>
</tr>
<tr>
<td>Challenge by choice (to increase challenge)</td>
<td>Being in class with friends</td>
</tr>
<tr>
<td>Addition of a CEPA</td>
<td>Changing the class to a different block</td>
</tr>
<tr>
<td>Needed for graduation (Seniors Only)</td>
<td>Elective changes</td>
</tr>
<tr>
<td>Not enough classes (less than 7 classes scheduled)</td>
<td>Year-long classes at semester</td>
</tr>
<tr>
<td>Failed prerequisite for a course</td>
<td></td>
</tr>
<tr>
<td>Academic misplacement based on teacher recommendation</td>
<td></td>
</tr>
</tbody>
</table>

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 6th DAY of the semester will not appear on the student’s transcript.
- Beginning with the 7th 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.

**POST-SECONDARY PLANNING/INDIVIDUAL CAREER & ACADEMIC PLAN (ICAP)**

The Individual Career & Academic Plan (ICAP) assists students with post-secondary planning to assure that all students are prepared to make informed decisions about their futures. ICAP is much like a portfolio where students learn about and record such information as learning styles, interest inventory results, awards, and community service records. Additionally, Air Academy HS uses ICAP to help students plan for high school course work, keep track of graduation credits, and record college entrance exam scores.

An integral component of ICAP is the Naviance/Family Connections website, www.connection.naviance.com/airacad; a resource used in every District 20 high school. (Student log-in information is the same username and password as their Infinite Campus accounts). Naviance provides career interest and abilities inventories, detailed information on careers, training and education, postsecondary majors, and college admissions information.

Air Academy HS students participate in the ICAP program through Konnections classes, and classroom presentations. Students are encouraged to discuss with their parents what they have learned and to visit the Naviance website together. Portions of a student’s ICAP portfolio may be stored online and available to the student 24/7. As with all learning, your dialogue with your student will make this experience even more meaningful for him/her. Please contact your student’s grade-level counselor to make an appointment to view and discuss your student’s ICAP folder materials. Counselors will assist you with this process of career interest exploration and post-secondary planning.
During the 2019-2020 School Year, AAHS will continue to offer the Collegiate/Career Pathways Diploma 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.

**BUSINESS, MARKETING, AND TECHNOLOGY PATHWAY**

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

**PATHWAY COURSE WORK................................................................. 4 credits**

The courses in the table below have the option to be taken for Business, Marketing, & Technology Pathway credit.

**Dual Credit: Students may take certain high school courses for college credit as well as high school credit (dual credit). A * next to the course title indicates the class is eligible for dual credit. Additional fees and curriculum requirements may apply.**

**PATHWAY COURSE WORK................................................................. 4 credits**

<table>
<thead>
<tr>
<th>Management</th>
<th>Marketing</th>
</tr>
</thead>
<tbody>
<tr>
<td>College/Career Prep (1 credit)</td>
<td>Creative Marketing 1 (1 credit)</td>
</tr>
<tr>
<td>It’s Your Business: An Introduction (1 credit)</td>
<td>Creative Marketing 2 (1 credit)</td>
</tr>
<tr>
<td>Accounting/Financial Applications</td>
<td>Marketing Work/Study Co-op (1 credit) **</td>
</tr>
<tr>
<td>Business Finance 1 (1 credit)</td>
<td>Small Business Management (1 credit)</td>
</tr>
<tr>
<td>Business Finance 2 (1 credit)</td>
<td>Advanced Marketing (1 credit)</td>
</tr>
<tr>
<td>Information/Data Processing</td>
<td>Computer Applications 1 (1 credit)</td>
</tr>
</tbody>
</table>

**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 to receive the Pathway Distinction (this includes Core Area credit requirements—see below).

**ADDITIONAL PATHWAY REQUIREMENTS....................... 6 credits**

(Students must earn these credits from the courses listed below)

**TOTAL COURSE WORK................................................................. 52 credits**

<table>
<thead>
<tr>
<th>Imaging &amp; Graphics</th>
<th>Video</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Photography 1</td>
<td>Electronic Media A/B</td>
</tr>
<tr>
<td>Digital Photography 2</td>
<td>ISST</td>
</tr>
<tr>
<td>Digital Photography 3</td>
<td></td>
</tr>
<tr>
<td>Computer Animation</td>
<td></td>
</tr>
<tr>
<td>Computer Graphic Design 1</td>
<td>Audio</td>
</tr>
<tr>
<td>Computer Graphic Design 2</td>
<td>Music Technology</td>
</tr>
</tbody>
</table>

**Important Note:** Not all courses in the Digital Media Pathway 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 Business, Marketing, and Technology department can assist.
What is “Project Lead The Way (PLTW)”?

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 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.

PLTW consists of a suggested pathway of courses that include the following PLTW core courses:

<table>
<thead>
<tr>
<th>Grade Level</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th-12th</td>
<td>Honors Introduction to Engineering Design (IED)*</td>
</tr>
<tr>
<td>10th-12th</td>
<td>Honors Principles of Engineering (POE)*</td>
</tr>
<tr>
<td>10th-12th</td>
<td>Honors Digital Electronics (DE)*</td>
</tr>
<tr>
<td>10th-12th</td>
<td>Honors Aerospace Engineering (AE)*</td>
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<tr>
<td>10th-12th</td>
<td>Honors Civil Engineering and Architecture (CEA)*</td>
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<tr>
<td>11th-12th</td>
<td>Honors Computer Integrated Manufacturing (CIM)*</td>
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<tr>
<td>12th</td>
<td>Honors Engineering Design and Development (EDD)*</td>
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*prerequisite or permission recommended

All courses are open to upper classmen, but only IED is open to freshmen.

- All courses are a full year in length.
- IED, POE and DE are considered the foundational or core PLTW courses.
- AE, CEA, CIM and EDD are considered optional “PLTW” course.
- College credit can be obtained from UCCS, or PPCC for courses.
- Pathway designation on transcript and at graduation will be determined by Pathway directors and will generally require completion of a minimum of three PLTW courses and four years of core Math/Science credits.

Participation in the Engineering Club and/or Robotics Team also provides important experiences in Engineering. Questions regarding this pathway should be addressed to Jason Buhler at jason.buhler@asd20.org.

Optional Courses

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<th>Course</th>
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<tr>
<td>Honors Aerospace Engineering (AE)</td>
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<tr>
<td>Honors Civil Engineering and Architecture (CEA)</td>
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<tr>
<td>Honors Computer Integrated Manual</td>
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</table>
191251A/B: Concurrent Enrollment—PPCC and UCCS Academic Courses
Qualifying D20 students can take an academic college class on the PPCC or UCCS college campus (including online and MathOnline courses). D20 contributes to tuition at the prevailing community college rate. Students pay the remaining tuition and any additional campus, course, and textbook costs. The college class must be aligned with the student’s Individual Career and Academic Plan (ICAP) and be inaccessible to the student in D20. An application and signed agreements are required. The deadline for applying is May 15 for the upcoming fall semester and November 15 for the upcoming spring semester. Students should see their high school College & Career Counselor for more information.

Career Start at Pikes Peak Community College
Qualifying D20 11th and 12th grade students may take technical or career area courses of study through the PPCC Career Start program. Career Start students attend PPCC half time and take additional courses at their home high school. Students may earn credit that can be applied toward high school graduation as well as toward an associates degree and/or industry certification. Bus transportation is provided to morning sessions. An application is required. Students pay a $75 application fee per year as well as the cost of additional course supplies. An application and signed agreements are required. See the following page for Career Start programs and credits. Interested students must connect with their high school counselor to express interest no later than the first week of January for participation the following school year.

Hairstyling at the International Salon and Spa Academy
Qualifying D20 11th and 12th grade students may work toward state board certification in hairstyling. First year students attend the morning session from 9:00am to 11:45pm, and second year students attend the afternoon session from 1:00pm to 3:45pm. Students attend the International Salon and Spa Academy half time and take additional courses at their high school. Students may earn credit that can be applied toward high school graduation. Bus transportation is provided for the morning session only. Students pay a $75 application fee per year as well as the cost of additional course supplies. An application and signed agreements are required. See the following page for Hairstyling program credit information. Interested students must connect with their high school counselor to express interest no later than the first week of January for participation the following school year.

To see a full list of specialized college pathways available to D20 students, see asd20.org/collegeandcareer and click College Pathways.
## PPCC CAREER START CREDIT GUIDE

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<th>CAREER START PROGRAM</th>
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### Career Start Credit Notes

- Students enrolling in a program with no English credit or one English credit will take a high school English course to be on track to earn the 8 English credits required for high school graduation.
- Students earn 1 grade each semester for the program for a total of 4 high school credits. Grades are determined using an averaging formula based on the credits per class. All grades are rounded to the whole letter; no + or – grades are awarded.
- Academic credit earned through a Career Start program does not meet NCAA athletic course criteria.
D20 COLLEGE & CAREER SPECIALIZED PATHWAYS
OPEN TO ALL D20 JUNIORS & SENIORS

COMPUTER SCIENCE/CODING & CYBERSECURITY

Meets at The Center for Modern Learning | Double-block (180 minutes) every other day
11th and 12th grade students (in the ‘19-’20 school year) | Weighted core elective credit
Job-ready industry certifications | College credit

Coding & Design Thinking

Coding & Design Thinking 1: Students build on foundational programming skills and use current coding methodologies for computer problem solving to design and construct innovative, real-world technology solutions.
Pre-requisite: Programming 1 or similar

Coding & Design Thinking 2: Students build advanced programming skills and use current coding methodologies for computer problem solving to design and construct innovative, real-world technology solutions. Pre-requisite: Coding & Design Thinking 1 or AP Computer Science

Cybersecurity

Cybersecurity 1: Students apply concepts of data security, system administration, network administration, and programming to the study of cybersecurity. Through critical thinking, investigation of real-world issues and practical exercises, students will develop foundational cybersecurity skills. Students will adhere to and demonstrate computer security ethics.
Pre-requisite: Programming 1 or similar

Cybersecurity 2: Students apply advanced concepts of data security, system administration, network administration, and programming to prevent cybersecurity attacks & mitigate cybersecurity threats in a test lab environment.
Pre-requisite: Cybersecurity 1

ARE YOU INTERESTED IN CODING OR CYBERSECURITY?

TO INDICATE YOUR INTEREST IN SIGNING UP FOR THE CODING OR CYBER PROGRAM:
Build your full high school schedule. Then apply to the program during the February—March application window. For more information and to subscribe to our interest list, go to asd20.org/collegeandcareer.
AUTOMOTIVE SERVICE TECHNOLOGY

Meets at Liberty High School | Double-block (180 minutes) every other day
D20 11th and 12th grade students (in the ‘19-’20 school year) | Core elective credit
Job-ready industry certification potential | Relevant, hands-on learning

108310A/B: Automotive Service Technology 1
In this first course of a two-year course sequence, students participate in real-world auto service training through maintenance, diagnosis, removal and installation of specific automotive drivetrain components. Students focus on industry standard processes and safety procedures in the environment of a working auto shop. Students learn through competency-based instruction that leads to an Automotive Service Excellence (ASE) student certification. Students will gain a foundation for entry-level employment or further schooling/training. **Course fee: $100.00 plus any additional fees for those who wish to pursue certification exams.**
Pre-requisite: We recommended that students have completed Algebra 1 and Geometry.

BUILDING CONSTRUCTION TECHNOLOGY

Meets at Liberty High School | Double-block (180 minutes) every other day D20
11th and 12th grade students (in the ‘19-’20 school year) | Core elective credit
Job-ready industry certification potential | Relevant, hands-on learning

101010A/B: Building Construction Technology 1
In this first course of a two-year sequence, students will apply technical knowledge and skills to residential and commercial building construction and remodeling through authentic construction projects. This course introduces students to all aspects of construction. Students will gain a foundation for entry-level employment or further schooling/training. Course fee: $100.00 plus any additional fees for any tools/supplies students wish to purchase as well as those who wish to pursue certification exams. **Course fee: $100.00 plus any additional fees for those who wish to pursue certification exams.**
Pre-requisite: We recommended that students have completed Algebra 1 and Geometry.

ARE YOU INTERESTED IN AUTOMOTIVE OR CONSTRUCTION?

TO INDICATE YOUR INTEREST IN SIGNING UP FOR THE AUTO OR CONSTRUCTION PROGRAMS:

Build your full schedule. You’ll then apply to the program during the February—March application window. For more information, go to asd20.org/collegeandcareer.
**HEALTH SCIENCE**

Meets at Liberty High School | Double-block (180 minutes) every other day  
D20 11th and 12th grade students (in the ’19-’20 school year) | Core elective credit  
Job-ready industry certification potential | Relevant, hands-on learning

**Semester 1: Health Sciences (course number TBD)**

Students explore health careers, and they apply foundational healthcare skills and health service best practices to the practical study of health sciences. **Pre- or co-requisite: Anatomy & Physiology**

**Semester 2: CNA or EMT (course numbers TBD)**

**NURSING ASSISTANT (CNA)**

Prepare for the nurse aide certification exam by expanding foundational healthcare skills and applying basic nursing theory to the practice of client care. **Students may also be required to participate in up to 30 hours of field experiences outside of class time.** Course fee: $100.00 plus any additional fees for those who wish to pursue the CNA certification exam.  
Pre-requisite: Health Sciences

**EMERGENCY MEDICAL TECHNICIAN (EMT)**

Prepare for the National Registry of Emergency Medical Technicians exam by applying foundational healthcare skills to the practice of basic emergency pre-hospital client care. **Students may also be required to participate in up to 30 hours of field experiences outside of class time.** Course fee: $100.00 plus any additional fees for those who wish to pursue the EMT certification exam.  
Pre-requisite: Health Sciences  
**NOTE: EMT is open to seniors only**

**ARE YOU INTERESTED IN HEALTH SCIENCES?**

TO INDICATE YOUR INTEREST IN SIGNING UP FOR A HEALTH SCIENCE PROGRAM:

Build your full schedule. You’ll then apply to the program during the February—March application window. For more information, go to asd20.org/collegeandcareer.

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TEACHER CADET

Location TBD | D20 11th and 12th grade students (in the ‘19-’20 school year)
Meets during or after school and requires 50 total field experience hours in addition to class time
Weighted core elective credit | College credit & guaranteed admission into UCB Teacher Education program
Relevant, hands-on learning

191130A/B Honors Teacher Cadet

Students will be involved in a fast-paced, innovative, hands-on curriculum where they gain knowledge about teaching and learning. Teacher cadets will develop and master effective skills that will be helpful in college and beyond such as presentations, public speaking, writing, communication, and reasoning. This is a yearlong, sequential, honors course with college credit options. Students will make a difference with children as they "try out" teaching in a "mini student teaching experience. **Students are required to complete 50 hours of classroom field experiences outside of class time.**
Students have the opportunity to earn 6 college credits through UCCS for TED 1000 and TED 2000 at the cost of $75 per class or $150 total.

ARE YOU INTERESTED IN TEACHER CADET?

TO INDICATE YOUR INTEREST IN SIGNING UP FOR THE TEACHER CADET PROGRAM:

Build your full schedule. You’ll then apply to the program during the February—March application window. For more information, go to asd20.org/collegeandcareer.
The Following Courses Have Been Approved to be Repeated for Credit.

**Art and Digital Media Classes**
Computer Animation
Electronic Media
AP Studio Art
Honors Art
Music Technology
Independent Study
ISST = Independent Study Special Topics

**Performing Arts Classes**
A Cappella Ensemble
Advanced Guitar
Advanced Jazz Ensemble
Chamber Singers
Color Guard
Festival Singers
Instrumental Ensemble
Jazz Ensemble
Marching Band
Percussion Techniques
String Orchestra
Symphonic Band
Theatre 3/Advanced Acting
Theatre 4/Directing
Women's Ensemble

**English Courses**
Journalism
Speech
Yearbook

**All Physical Education Classes, EXCEPT:**
Fitness Yoga 1
Rocky Mountain High 1
Weights and Fitness 1

**Special Program Classes**
D20 TV
Elementary School Helper
FLIGHT
Guided Study Hall
Peer Partner
Peer PE
PILOTS
Reading Lab 1
Reading Lab 2
Student Assistant
Student Government
Study Skills
Teacher Assistant
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.

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**AF JROTC 1**
Grades: 9-12
1 year

**AF JROTC 2**
Grades: 10-12
1 year

**AF JROTC 3**
Grades: 11-12
1 year

**AF JROTC 4**
Grades: 12
1 year

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**AFJROTC AEROSPACE SCIENCE/LEADERSHIP EDUCATION 1**
Course # 089100 A/B
Grade: 9-12
Length: 1 year
Prerequisite: Application and Instructor Approval
Credits: 2 – Core Elective (Social Studies)
Fee: $40

The first year of Aerospace Science is “A Journey Into 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**
Course # 089105 A/B
Grade: 10-12
Length: 1 year
Prerequisite: AFJROTC 1 and instructor approval
Credits: 2 – Core Elective (Science)
Fee: $25

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
Course # 089110 A/B
Grade: 11-12
Length: 1 year
Prerequisite: AFJROTC 2 and instructor approval
Credits: 2 – Core Elective (Science)
Fee: $25

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 of 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
Course # 089115 A/B
Grade: 12
Length: 1 year
Prerequisite: AFJROTC 3, and instructor approval/signature
Credits: 2 – Unrestricted Elective
Fee: $25

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.
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.

Digital Photography! Computer Graphic Design! Computer Animation! The exciting world of digital media is yours at Air Academy High School’s Digital Media 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 Digital Media 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!

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

**ART AND DIGITAL MEDIA**

**Art 1**
Grades: 9-12
1 semester

**Art 2**
Grades: 9-12
1 semester

**Art 3**
Grades: 10-12
1 semester

**Art 4**
Grades: 10-12
1 semester

**Ceramics 1**
Grades: 9-12
1 semester

**Ceramics 2**
Grades: 9-12
1 semester

**Ceramics 3**
Grades: 10-12
1 semester

**Ceramics 4**
Grades: 10-12
1 semester

**Digital Photo 1**
Grades: 9-12
1 semester

**Digital Photo 2**
Grades: 9-12
1 semester

**Digital Photo 3**
Grades: 10-12
1 semester

**Computer Animation**
Grades: 9-12
1 semester

**Computer Graphic Design 1**
Grades: 9-12
1 semester

**Computer Graphic Design 2**
Grades: 10-12
1 semester

**Art in Public Places 1**
Grades: 10-12
1 semester

**Art in Public Places 2**
Grades: 11-12
1 semester

**Electronic Media**
Grades: 9-12
1 year

**Honors, AP, & Independent Study**

**Honors Art**
Grades: 10-12
1 semester

**AP Studio Art**
Grades: 11-12
1 year

**AP Art History**
Grades: 10-12
1 year

**Independent Study- Art**
Grades: 10-12
1 semester

**Independent Study- Special Topics**
Grades: 11-12
1 semester
ART 1
Grade: 9-12
Prerequisite: None
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
Grade: 9-12
Prerequisite: Art 1 and instructor signature
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
Grade: 10-12
Prerequisite: Art 2 and instructor signature
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
Grade: 11-12
Prerequisite: Art 3 and instructor signature
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.

HONORS ART*
Grade: 10-12
Prerequisite: Art 3 OR Ceramics 2, portfolio and instructor signature
Fee: $40.00

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*
Grade: 10-12
Prerequisite: Art 1 or Ceramics 1

The AP Examination fee for year 2020 is ~$100.00

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 narrate or comparative essay.
ART IN PUBLIC PLACES 1
Grade: 10-12
Prerequisite: Level 1 art course and instructor signature
Fee: $35.00

Students will learn how professional artists create artworks for the public. Public art and sculpture has a very methodical and sequential process behind the scenes. Artist must take into account many considerations such as safety, audience, idea, installation, and budget prior to the final installation of their art. Students will experience this process through a local Design and Build High School Public Sculpture program culminating with the construction and installation of the sculpture for a public space. This course is cross curriculum oriented and will require students to produce written narrative along with itemized budgets.

Note: This course may require additional work outside the regular class meeting time, to include after school and or weekends.

ART IN PUBLIC PLACES 2
Grade: 10-12
Prerequisite: Art in Public Places 1 and instructor signature
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 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.

Note: This course may require additional work outside the regular class meeting time, to include after school and or weekends.

CERAMICS 1
Grade: 9-12
Prerequisite: None
Fee: $35.00

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.

CERAMICS 2
Grade: 9-12
Prerequisite: Ceramics 1 and instructor signature
Fee: $35.00

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 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.

CERAMICS 3
Grade: 10-12
Prerequisite: Ceramics 2 and instructor signature
Fee: $35.00

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.
CERAMICS 4
Grade: 11-12
Prerequisite: Ceramics 3, Portfolio review, instructor signature
Fee: $35.00

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

AP STUDIO ART*
Grade: 11-12
Prerequisite: Art 3 OR Ceramics 3 and instructor signature
Fee: TBD on student chosen projects, size, and materials

The AP Examination fee for year 2020 is ~$100.00

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 A.P. 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 A.P. credit that the students submit their completed portfolios to the A.P. Board in May.

COMPUTER ANIMATION
Grade: 9-12
Prerequisite: None
Fee: $30.00

Note: It is highly recommended that students provide a 4-gigabyte flash drive.

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 repeated for an additional credit.

COMPUTER GRAPHIC DESIGN 1
Grade: 9-12
Prerequisite: None
Fee: $30.00

Note: It is highly recommended that students provide a 4-gigabyte flash drive.

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
Grade: 9-12
Prerequisite: Computer Graphic Design 1 and instructor signature
Fee: $30.00

Note: It is highly recommended that students provide a 4-gigabyte flash drive.

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.
DIGITAL PHOTOGRAPHY 1
Course # 026050
Grade: 9-12
Length: 1 semester
Prerequisite: None
Credits: 1 – Arts or Unrestricted Elective
Fee: $30.00

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

Notes: A final DVD of all assignments will be produced. A digital camera and flash drive are recommended.

DIGITAL PHOTOGRAPHY 2
Course # 026055
Grade: 9-12
Length: 1 semester
Prerequisite: Digital Photography 1 and instructor signature
Credits: 1 – Arts or Unrestricted Elective
Fee: $30.00

Note: It is highly recommended that students provide a digital camera and a 4-gigabyte flash drive.

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 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: $30.00

Note: It is highly recommended that students provide a digital camera and a 4-gigabyte flash drive.

This course is designed to prepare students for professional and academic careers in fine art photography. The emphasis will be on fiber-based, archival printing for exhibition and portfolio. Considerable weight will be placed on an extended body of work, formally presented. Notebook required.

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.

ELECTRONIC MEDIA 1
Course # 191090 A/B
Grade: 9-12
Length: 1 year
Prerequisite: None
Credits: 2 – Arts or Unrestricted Elective
Fee: $25.00

Students will learn and apply techniques of storytelling and audio/video production and post-production. Students will learn and apply a variety of distribution methods.

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.

INDEPENDENT STUDY-SPECIAL TOPICS
Course # 191040
Grade: 11-12
Length: 1 semester
Prerequisite: 3 semesters of digital media courses and instructor signature
Credits: 1 – Unrestricted Elective
Fee: $35.00

This course will allow the advanced student to pursue specialized methods and techniques beyond the standard course offerings. Designed cooperatively by student and faculty advisor, 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.
Air Academy High School offers a Business, Marketing & Technology 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 schooling 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 Community College credit through an articulation agreement with District 20 and PPCC.

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 the opportunities to get involved in DECA and/or FBLA. Future Business Leaders of America (FBLA) and Distributive Education Clubs of America (DECA) are the student leadership organizations aligned with business and marketing education courses.

FBLA (Future Business Leaders of America): Students can participate in FBLA after completing 1 course of Business.

DECA (Distributive Education Clubs of America) is the co-curricular student organization that will provide the students with leadership development skills and competencies in business, marketing, management and entrepreneurship. The information learned in marketing is applied towards DECA. In turn, these skills are applied through local, state and national competition. Many businesses in our community support DECA. Students who enroll in second semester course offerings will be invited to join DECA first semester and participate in all DECA activities, such as local, state and national competitions, mystery night, bowling night, broomball, movie night and many other fun activities. Marketing students age 16 or older can also enroll in the Marketing Co-op (on the job training) class if they are employed in a marketing related job.
BUSINESS FINANCE 1
Grades: 9-12
Prerequisite: None

Students taking this semester long course will learn to better prepare for their business and personal financial futures. Students will focus on investment opportunities and planning with real-life applications. Students will gain the computational skills to solve problems as they relate to consumers, businesses, and the economy. Topics may include computing gross income, figuring net income, maintaining a checking account, maintaining a savings account, computing sales tax, calculating a markdown, using charge accounts, working with loans, owning an automobile, budgeting housing costs, purchasing insurance, making investments, and keeping personal financial records.

BUSINESS FINANCE 2
Grades 9-12
Prerequisite: Business Finance 1

This semester course is designed for students who would like a detailed analysis of business policies and procedures as they relate to business and personal 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.

COLLEGE/CAREER PREP
Grades: 11-12
Prerequisite: None

This course teaches valuable career exploration, college preparation, and life skills. Students will research appropriate career and college programs, determine costs, create a personal resume, write an admissions essay, apply for college admissions, and complete scholarship searches. The class includes significant lab time for students to complete the college admissions process and activities. The course may also include employment readiness simulations. Second semester students will study personal finance topics including career development, money management, budgeting, credit management, taxes, buying a car, leasing an apartment, buying a house, insurance, savings and investments, and retirement.

Notes: Students will practice the SAT and ACT tests. Student will complete a portfolio that includes a resume, cover letter, letters of recommendation and other career-related items. Classroom instruction may be complimented with guest speakers or business consultants from JA. The second semester curriculum is not taught at AAHS.

COMPUTER APPLICATIONS 1
Grade: 9-12
Prerequisite: None

This course provides students with computer skills needed for completing many daily business and personal tasks. The course covers proper keyboarding technique to ensure speed and accuracy, the proper formatting of business letters, reports, tables, and memos. Additional topics may include speech recognition, numeric keypad, and basic Microsoft Word. (Due to the scope and sequence of the Computer/Networking courses, no students will be admitted after the drop/add period.)

Notes: Student may also use web-based technology such as Animoto, Prezi, Glogster, etc.

IT'S YOUR BUSINESS: AN INTRODUCTION
Grades: 10-12
Prerequisite: None

This course introduces the student to the world of business, an area that affects each of us. Topics may include basic economics, credit, banking, insurance, consumerism, income tax, entrepreneurship, careers, and the stock market.

CREATIVE MARKETING 1/DECA
Grades: 10-12
Prerequisite: None
DECA Local/State/National Dues: $55.00

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 a hands-on experience in this curriculum.

Notes: Students may explore additional concepts of selling and skills for marketing. Students will have the opportunity to become a DECA member. DECA is the co-curricular student organization that allows for student participation in district, state, and national marketing competitions.
**SMALL BUSINESS MANAGEMENT/ENTREPRENEURSHIP 1/DECA**

Grades: 10-12  
Prerequisite: None  
DECA Local/State/National Dues: $55.00

Some well-known companies such as Ford, Starbucks, Auntie Anne’s, UPS, and FUBU started out as small businesses. This course provides the components necessary to research and develop a small business. Students will choose a company, traditional or inventive, and build a business plan. The course will include:

- Famous Entrepreneurs  
- Entrepreneurs and the Economy  
- Deciding to become a Business Owner?  
- Selecting a type of Ownership  
- Developing a Business Plan  
- Marketing your Business  
- Hiring and Managing a Staff  
- Financing, Protecting and Insuring your Business

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

Notes: Students will have the opportunity to become a DECA member. Marketing students may also enroll in the Marketing Co-op (on the job training) if employed in a marketing-related job.

**SPORTS AND ENTERTAINMENT MARKETING 1/DECA**

Grades: 10-12  
Prerequisite: None  
DECA Local/State/National Dues: $55.00

Explore one of the fastest growing areas in marketing today. Students will gain insight into marketing functions and how they apply to sports and entertainment marketing. Discover how colleges promote their teams, how musicians sell and market their music, and the careers that exist in the field of sports and entertainment marketing. Topics include:

- Sports and Entertainments Marketing Basics  
- College and Amateur Sports  
- Promotion techniques  
- Community Service and Sports Camp  
- Selling and Marketing of Music and Theater

Projects may include design and marketing of a new sport and/or entertainment product and redesign of college logos, music jackets, etc. The Student Store will provide students with hands-on experience in this curriculum.

Notes: Students will have the opportunity to become a DECA member. Marketing students may also enroll in the Marketing Co-op (on the job training) if employed in a marketing-related job.

**MARKETING 2/DECA**

Grades: 10-12  
Prerequisite: Any level 1 Marketing course  
DECA Local/State/National Dues: $55.00 (Required)

In this course students will learn how businesses, individual consumers, and our economy benefit from effective marketing. Students will gain insight into the world of advertising from the history of advertising to creating their own advertising campaign for a company of their choice. Topics will also include:

- The Power of Advertising  
- Analyzing the Customer  
- Developing a Media Plan  
- Direct Marketing  
- The Advertising Industry  
- Create an Advertisement  
- Promotion and Support Media

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 Marketing Co-op (on the job training) if employed in a marketing-related job.

**SPORTS AND ENTERTAINMENT MARKETING 2/DECA**

Grades: 10-12  
Prerequisite: Any level 1 Marketing course  
DECA Local/State/National Dues: $55.00

Ever wonder what it would be like to own a sports team, market a concert in a huge venue, design a stadium, or build a theme park? Students will research how top athletes promote products, how airlines and theme parks target their audience, and how entertainment uses a variety of marketing connections. Topics include:

- Professional Sports  
- Public Images  
- Sports in a Global Economy  
- Entertainment Technology  
- Promoting Recreation  
- Entertainment, and Sports

Projects may include design and/or marketing of a team, a sports individual, stadium, or theme park. The Student Store will provide students with hands-on experience in this curriculum.

Notes: Students may also explore virtual sports simulation.  
Students will be required to become a DECA member. Marketing students may also enroll in the Marketing Co-op (on the job training) if employed in a marketing-related job.
**ADVANCED MARKETING / DECA**  
Course # 040010 A/B  
Length: 1 year  
Credits: 2 – Unrestricted Elective

Grades: 11-12  
Prerequisite: Creative Marketing 2 OR Sports and Enter Marketing 2  
DECA Local/State/National Dues: $55.00 (Required)

This course is for juniors and seniors who are interested in advanced marketing topics. Topics will include business management, international business, entrepreneurship, communication, finance, current business strategies and professional presentations. Classroom instruction will feature individual and group project work. Students will read current business books and utilize the Internet for research-based projects. Students will have the opportunity to become a DECA member. DECA is the co-curricular student organization that allows for student participation in district, state, and national marketing competitions. Through DECA, students will participate in social activities, community service projects, leadership development, and career awareness projects. Students may also enroll in the Marketing Cooperative Training Marketing Co-op (on the job training) class if employed in marketing-related job.

**MARKETING WORK STUDY/CO-OP**  
Course # 040055  
Length: 1 semester or 1 year  
Credits: 1 or 2 – Unrestricted Elective

Grade: 10-12  
Prerequisite: Concurrently with another Marketing course, instructor approval  
DECA Local/State/National Dues: $55.00

This course is designed for students who want to earn money while learning important job-related skills. The student must be currently employed or seeking employment in a marketing related occupation. The teacher/coordinator and employer will evaluate the student’s on-the-job performance and employment skills learned during the semester. Students will be assessed based on performance, hour requirement met and monthly paperwork. Students can elect to take the course at the beginning or the end of the school day.

*Note: Students have the opportunity also to work in the Kadet Coffee store and receive credit while getting hands on training experience for their first job.*
CATERING AND HOSPITALITY MANAGEMENT

Course # 093001 A/B
Grade: 10-12
Length: 1 year
Prerequisite: None
Credits: 2 – Unrestricted Elective

This year-long course is designed for students with an interest in quantity food preparation, which could lead to a catering career. Students will learn food and kitchen safety, cater a soup luncheon, prepare various sauces for fresh pasta, discover salads, cater sandwich box lunches, and sell desserts and baked goods. Emphasis will be on healthy meal planning, preparation and service. Students will master the use of small appliances used in the catering industry. They will create a meal-at-home using the hands-on skills and techniques obtained in the classroom. Students will determine and manage food costs and evaluate profitability. This course is offered to all students interested in learning about food preparation and presentation.

CHILD AND ADOLESCENT DEVELOPMENT

Course # 092000
Grade: 10-12
Length: 1 semester
Prerequisite: None
Credits: 1 – Unrestricted Elective

AAHS does NOT provide transportation to the Air Force Academy Child Development Center, students will carpool to the Center.

How do humans develop mentally, socially, and physically? Students will study the underlying principles and skills to work with children of all ages and the factors that promote the healthy emotional and physical development of the child. Students will learn about brain development, growth of the self-concept, discipline, learning experiences, and guidance of children which relate to parent/caregiver effectiveness.

Notes: Students enrolled in this course will be required to take home an infant simulator for an assigned number of days. Students will participate in practical teaching experiences at the Air Force Academy Child Development Center throughout the semester.

INTERIOR DESIGN

Course # 022001-A/B
Grade: 10-12
Length: 1 year
Prerequisite: None
Credits: 2 – Unrestricted Elective

This yearlong course is designed for students who are interested in learning and applying the principles and elements of art and design to residential and commercial interiors with hands-on projects. The student will examine architectural styles in homes and furnishings and how they relate to interior design careers. Topics include: architectural styles, period furniture styles, wall and floor coverings, window treatments, color schemes, and accessories in the decorating of residential interiors. Students will apply design principles and knowledge of materials, appropriate use of accessories, while developing their skills in presentation techniques.

Notes: Second semester students will be designing and creating a hands-on project at AAHS with a real client!

LIVING ON YOUR OWN

Course # 090000
Grade: 11-12 only
Length: 1 semester
Prerequisite: None
Credits: 1 – Unrestricted Elective

This course is designed to help students examine, evaluate, and manage the resources which aid in developing personal and family goals as they prepare to live independently of their parents. Students will study the integration of family, community, and career responsibilities while analyzing factors which contribute to a healthy lifestyle and relationships. Students gather information to assist them in making informed consumer decisions. Students practice decision-making and problem-solving skills as they examine real life situations pertaining to living independently including employment, housing, finances, individual wellness, family needs, savings, credit and taxes.

Notes: The last 6 weeks of the semester, students will be preparing meals and cooking in the food labs.

TEEN CHOICES

Course # 081500
Grade: 10-12
Length: 1 semester
Prerequisite: None
Credits: 1 – Unrestricted Elective

The purpose of this course is to acquire academic knowledge and understanding necessary for healthy decision-making during the teen years. Students integrate knowledge, skills and practices required by individuals to develop, manage, and strengthen: personal power and success; personal wellness; personal relationships; and lawful behavior. Emphasis is placed on teens as valued individuals who take responsibility for personal success and contribute to family and community well-being.

INTERNATIONAL FOODS

Course # 081500
Grade: 10-12
Length: 1 semester
Prerequisite: None
Credits: 1 – Unrestricted Elective

This course allows students to explore international cuisine and cultures through planning, preparing, and serving meals from many different countries. Students gain skills as they prepare menus using cooking methods and techniques unique to a variety of cultures. Students examine the nutritional value of food as well as historic, economic, and geographic factors affecting the development of various cuisines and customs.
Engineering Curriculum –
Project Lead The Way pathway courses:

This is a four-year set of courses which, when combined with mathematics and science courses, introduces 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 of 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.
**HONORS INTRODUCTION TO ENGINEERING DESIGN (IED)**  
Course # 103036 A/B  
Grades: 9-12  
Length: 1 year  
Prerequisite: Currently enrolled in Algebra I or higher  
Credits: 2 – Unrestricted Elective  
Fee: $10.00; Additional expense may be necessary, as chosen for individualized projects.

This course teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed and communicated using a 3D, solid-modeling Computer-Aided-Design (CAD) System (AutoCAD Inventor). This modern computer-based process replaces traditional drafting methods.

**Notes:** Introduction to Engineering Design is an introductory course which develops student problem solving skills through hands-on and computer-based projects. Students will work from sketching simple geometric shapes to applying a solid modeling computer software package. They will learn a problem-solving design process and how it is used in industry to manufacture a product. Computer Aided Design (CAD) will be used to create, analyze and evaluate the product design. The equipment used, and techniques learned are state of the art and are currently being used by engineers throughout the United States.

This is considered the foundational core course for the Engineering Pathway program, Project Lead The Way.

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**HONORS PRINCIPLES OF ENGINEERING (POE)**  
Course # 103051 A/B  
Grades: 10-12  
Length: 1 year  
Prerequisite: Introduction to Engineering Design or instructor approval  
Credits: 2 – Core Elective (Math)  
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. They will explore various engineering systems and manufacturing processes. They will also learn how engineers address concerns about the social and political consequences of technological change. The main purpose of this course is to experience through theory and hands-on problem-solving activities what engineering is all about and to answer the question “Is a career in engineering or engineering technology for me?”

**Notes:** This course is the recommended second core course in the Engineering Pathway.

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**HONORS AEROSPACE ENGINEERING (AE)**  
Course # 108405 A/B  
Grades: 10-12  
Length: 1 year  
Prerequisite: Introduction to Engineering Design or instructor approval  
Credits: 2 – Unrestricted Elective  
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.

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**HONORS CIVIL ENGINEERING AND ARCHITECTURE (CEA)**  
Course # 103016 A/B  
Grades: 10-12  
Length: 1 year  
Prerequisite: None  
Credits: 2 – Unrestricted Elective  
Fee: $10.00; Additional expense may be necessary, as chosen for individualized projects.

This course is a study of design and drafting as related to residential and commercial construction. Students will use hands-on activities involving both Computer Design software (AutoCAD) and construction to cover:
- Architectural styles
- Land development and plot design
- Floor plans (Complete set) Elevation drawings Landscaping design
- Basic building construction
- Energy efficiency
- Environmental impact
- Cost effective design practices

**Notes:** This course is a study of design and drafting as related to community development. This is considered an optional course in the engineering pathway course.

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**HONORS COMPUTER INTEGRATED MANUFACTURING (CIM)**  
Course # 169001 A/B  
Grades: 11-12  
Length: 1 year  
Prerequisite: Previous PLTW courses of IED and POE or instructor permission  
Credits: 2 – Unrestricted Elective.

This course applies principles of robotics and automation. The course builds on computer solid modeling skills developed in previous PLTW courses. Students use CNC equipment to produce actual models of their three-dimensional designs. Fundamental concepts of robotics used in automated manufacturing, and design analysis are included.

**Notes:** This is considered an optional course in the engineering pathway course.
**HONORS DIGITAL ELECTRONICS (DE)**

Course # 104009 A/B

Grades: 10-12

Prerequisite: Currently enrolled in Algebra 2 or instructor permission

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

The use of smart (digital) circuits is present in virtually all aspects of our lives. This makes digital electronics an essential course of study for a student exploring a career in engineering or engineering technology. Students will use industry-standard circuit design software to test and analyze simple and complex digital circuitry. Students will also have hands-on experiences building electronic projects, such as burglar alarms.

*Notes: A basic understanding of digital electronics logic is essential for applications in most engineering fields, not just Electrical Engineering.*

This is the recommended third core course for the Engineering Pathway program.

**HONORS ENGINEERING DESIGN AND DEVELOPMENT (EDD)**

Course # 103041 A/B

Grades: 12

Prerequisite: Previous PLTW courses of IED and POE or instructor permission

This is the Pathway’s 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.

This is the recommended capstone (final) course for the Engineering Pathway program.
### Automotive Service Technology 1
- **Course #**: 108310 A/B
- **Grades**: 11-12
- **Length**: 1 year
- **Pre-requisite**: None (Algebra I and Geometry recommended)
- **Fee**: $100.00 + certification exam fees
- **Location of Course**: Liberty High School

In this first course of a two-year course sequence, students participate in real-world auto service training through maintenance, diagnosis, removal and installation of specific automotive drivetrain components. Students focus on industry standard processes and safety procedures in the environment of a working auto shop. Students learn through competency-based instruction that leads to an Automotive Service Excellence (ASE) student certification. Students will gain a foundation for entry-level employment or further schooling/training.

*Notes: This is a year-long double block course (i.e. Blue 1 and Blue 2) held at Liberty High School. Students can earn up to four elective credits for successful completion of this course. As of the time of this publication, district provided transportation has yet to be determined.*

### Building Construction Technology 1
- **Course #**: 101010 A/B
- **Grades**: 11-12
- **Prerequisite**: None (Algebra I and Geometry recommended)
- **Fee**: $100.00 + tools/supplies and certification exam fees
- **Location of Course**: Liberty High School

In this first course of a two-year sequence, students will apply technical knowledge and skills to residential and commercial building construction and remodeling through authentic construction projects. This course introduces students to all aspects of construction. Students will gain a foundation for entry-level employment or further schooling/training.

*Notes: This is a year-long double block course (i.e. Blue 1 and Blue 2) in which students can earn up to four elective credits for successful completion of this course. As of the time of this publication, district provided transportation has yet to be determined.*

### Health Science Essentials
- **Course #**: 071000
- **Grades**: 11-12
- **Pre-requisite/co-requisite**: Anatomy and Physiology
- **Fee**: $100.00 + CNA certification exam fees
- **Location of Course**: Liberty High School

In this course, students will apply foundational healthcare skills and health service best practices while exploring careers in the health sciences and what it takes to be successful in those careers. Topics include the exploration of health care practices & systems theory, personal and professional skills, career profiles, and workplace skills & health science practicums.

*Notes: This is a fall semester double block course (i.e. Blue 1 and Blue 2) in which students can earn up to two core elective credits for successful completion of this course. As of the time of this publication, district provided transportation has yet to be determined.*

### Nursing Assistant
- **Course #**: 074100
- **Grades**: 11-12
- **Pre-requisite/co-requisite**: Health Science Essentials
- **Fee**: $100.00 + CNA certification exam fees
- **Location of Course**: Liberty High School

In this course, students will prepare for the nurse aide certification exam by expanding foundational healthcare skills and applying basic nursing theory to the practice of client care. Through lab-based simulations and clinical experiences, students will demonstrate nursing principles and competencies, restorative services, safety practices, and emergency care while they model professional skills.

*Notes: This is a spring semester double block course (i.e. Blue 1 and Blue 2) in which students can earn up to two core elective credits for successful completion of this course. As of the time of this publication, district provided transportation has yet to be determined.*

### Emergency Medical Technician
- **Course #**: 079000
- **Grades**: 12
- **Pre-requisite/co-requisite**: Health Science Essentials
- **Fee**: $100.00 + EMT certification exam fees
- **Location of Course**: Liberty High School

In this course, students will prepare for the National Registry of Emergency Medical Technicians exam by applying foundational healthcare skills to the practice of basic emergency pre-hospital client care. Through classroom simulations and clinical experiences, students will demonstrate an understanding of basic anatomy and psychology, patient assessment, communication strategies, and emergency medical interventions.

*Notes: This is a spring semester double block course (i.e. Blue 1 and Blue 2) in which students can earn up to two core elective credits for successful completion of this course. As of the time of this publication, district provided transportation has yet to be determined.*
ENGLISH

HONORS 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 of these classes.

Important Information for Honors English Applicants
Each year students interested in entering the AAHS Honors English program apply in the spring for the following school year. Recommendations for Honors English are based on performance in current English Class, teacher recommendations, and standardized test scores.

Information on Honors English Classes for Students New to Air Academy High School
If students arrive during the school year, consideration for Honors is based on transfer English grade and available space in Honors classes.

<table>
<thead>
<tr>
<th>English – Core classes</th>
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<tbody>
<tr>
<td>Grade 9</td>
</tr>
<tr>
<td>Freshman Lit &amp; Comp</td>
</tr>
<tr>
<td>1 year</td>
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<tr>
<td>Honors Freshman Lit &amp; Comp</td>
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<td>Honors Art Integrated Freshman Lit &amp; Comp</td>
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<td>Grade 10</td>
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<td>World Lit &amp; Comp</td>
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<td>Honors World Lit &amp; Comp</td>
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<td>Honors Art Integrated World Lit &amp; Comp</td>
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<td>1 year</td>
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<tr>
<td>Grade 11</td>
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<tr>
<td>American Lit &amp; Comp</td>
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<tr>
<td>Honors American Lit &amp; Comp</td>
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<td>1 year</td>
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<tr>
<td>AP English Lang &amp; Comp</td>
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<tr>
<td>1 year</td>
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<tr>
<td>Grade 12</td>
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<tr>
<td>Comp &amp; Lit 4</td>
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<tr>
<td>1 year</td>
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<tr>
<td>Honors Senior Lit &amp; Comp</td>
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<td>1 year</td>
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<tr>
<td>AP English Lit &amp; Comp</td>
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<tr>
<td>1 year</td>
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<tr>
<td>Career Start English</td>
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<tr>
<td>1 semester</td>
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<td>(Career Start students ONLY)</td>
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<tr>
<th>English - Electives</th>
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<td>Creative Writing 1</td>
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<tr>
<td>Grades: 9-12</td>
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<tr>
<td>1 semester</td>
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<tr>
<td>Creative Writing 2</td>
</tr>
<tr>
<td>Grades: 11-12</td>
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<td>1 semester</td>
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<tr>
<td>Mythology</td>
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<td>Grades: 9-12</td>
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<td>1 semester</td>
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<tr>
<td>Speech</td>
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<td>Grades: 9-12</td>
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<tr>
<td>Forensics, Speech, Debate</td>
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<td>Grades: 9-12</td>
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<td>1 semester</td>
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<tr>
<td>Advanced Forensics, Speech, Debate 2</td>
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<td>Grades: 10-12</td>
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<td>1 semester</td>
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<tr>
<td>Shakespeare Alive!</td>
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<td>Grades: 9-12</td>
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<td>Enrichment Reading</td>
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<td>Grades: 9-12</td>
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<td>Comparative Religions</td>
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<td>Grades: 10-12</td>
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<td>1 semester</td>
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<tr>
<td>Film as Literature</td>
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<td>Grades: 10-12</td>
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<td>1 semester</td>
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<tr>
<td>Journalism</td>
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<td>Grades: 10-12</td>
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<td>1 year</td>
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<tr>
<td>Yearbook</td>
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<tr>
<td>Grades: 10-12</td>
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<tr>
<td>1 year</td>
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</tbody>
</table>
FRESHMAN LITERATURE AND COMPOSITION
Course # 053100 A/B
Grade: 9
Prerequisite: None
Length: 1 year
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 FRESHMAN LITERATURE AND COMPOSITION*
Course # 053105 A/B
Grade: 9
Prerequisite: None
Length: 1 year
Credits: 2 – English

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.

HONORS ART INTEGRATED FRESHMAN LIT AND COMPOSITION*
Course # 053107 A/B
Grade: 9
Prerequisites: None
Length: 1 year
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 and AP classes. Using an arts-infused curriculum, students will work collaboratively in an inquiry-based classroom to become better readers, writers and students.

WORLD LITERATURE AND COMPOSITION
Course # 053115 A/B
Grade: 10
Prerequisite: Freshman Literature and Composition
Length: 1 year
Credits: 2 - English

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: an independent research paper using technological and library skills, an expository paper, a creative paper, a descriptive paper, and a business letter. All writing will utilize the analytical traits as defined in the department’s Direct Writing Assessment process.

HONORS WORLD LITERATURE AND COMPOSITION*
Course # 053120 A/B
Grade: 10
Prerequisite: Honors Freshman Literature and Composition
Length: 1 year
Credits: 2 – English

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.

HONORS ART INTEGRATED WORLD LIT AND COMPOSITION*
Course # 053122 A/B
Grade: 10
Prerequisite: None
Length: 1 year
Credits: 2 - English

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.
AMERICAN LITERATURE AND COMPOSITION
Course # 053145 A/B
Grade: 11
Prerequisite: World Literature and Composition
Credits: 2 – English

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

Notes: Students will understand, appreciate, and enjoy American literature; write and speak correctly and effectively increase their vocabulary; listen effectively; and become knowledgeable about national standardized tests. Students will develop a variety of projects incorporating technology when appropriate.

HONORS AMERICAN LITERATURE AND COMPOSITION*
Course # 053150 A/B
Grade: 11
Prerequisites: Honors World Literature and Composition
Credits: 2 – English

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 writing assignments in the expository, analytical, and other modes, plus they will be expected to participate in individual and group projects that stress time management, self-discipline, self-direction and creative thinking skills.

AP ENGLISH LANGUAGE AND COMPOSITION*
Course # 053175 A/B
Grade: 11
Prerequisites: Honors World Literature and Composition
The AP Examination fee for the year 2020 will be ~ $100.00.

At the conclusion of this course students will be expected 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.

COMPOSITION AND LITERATURE 4
Course # 050025 A/B
Grade: 12
Prerequisite: American Literature and Composition
Credits: 2 – English

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 literature in the British tradition.

HONORS SENIOR COMPOSITION AND LITERATURE*
Course # 053180 A/B
Grade: 12
Prerequisite: Honors American Literature and Composition
Credits: 2 – English

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.

AP ENGLISH LITERATURE AND COMPOSITION*
Course # 054000 A/B
Grade: 12
Prerequisites: Honors American Lit & Comp or AP Lang & Comp
The AP Examination fee for the year 2020 will be ~ $100.00.

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 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.
AVP English is designed for students enrolled in the Career Start program at Pikes Peak Community College. The students meet daily for fifty minutes. This course emphasizes critical thinking and writing skills, interpretive reading, and vocabulary development. Students will delve into significant works by American and British authors.

ADVANCED FORENSICS, SPEECH AND DEBATE 2
Grade: 10-12
Prerequisite: Forensics, Speech and Debate 1

This course is a continuation of Forensics and is designed for the seriously competitive speech student. It stresses participation in forensic competition in original oratory, extemporaneous speaking, congress, and debate.

Notes: This course is designed for students that have taken Forensics, Speech and Debate 1 and desire to further their forensic skills in the following areas: original oratory, congress, debate, extemporaneous speaking, and interpretation of poetry, drama, humor. Students will be required to participate in at least three competitions and the AAHS Congress. Students will compete in at least two areas in order to broaden their speaking skills.

COMPARATIVE RELIGIONS
Grade: 10-12
Prerequisite: None

This course examines some of the major religious traditions of the world in a comparative manner. Course work guides the student to evaluate similarities and differences between these important belief systems. Students are encouraged to explore and understand the religious documents, traditions, and beliefs of great world religions, and to understand how each developed historically.

Notes: Coursework includes exploring the major, historical religions, working towards a formative groundwork, reading selected religious documents, class discussion, papers, and projects. This course is designed to give students a framework to understand how religion has formed culture and affects modern life.

CREATIVE WRITING 1
Grade: 9-12
Prerequisite: None

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
Grade: 11-12
Prerequisite: Creative Writing 1, with a B or higher

This course is for students to continue to develop and advance existing creative writing skills with an emphasis on publication.

Notes: This course will be run as an independent study where the student will decide upon a writing project to pursue independently. The independent nature of the class allows the student to further study a particular genre or possible career associated with creative writing. Students will compile a variety of sources to assist in developing the craft of writing and will meet with the instructor frequently for conferencing on writing or other assistance, assessment of progress, and presentation of final product(s).

ENRICHMENT READING
Grade: 9-12
Prerequisite: None

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.
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<thead>
<tr>
<th>COURSE</th>
<th>Course #</th>
<th>Grade</th>
<th>Length</th>
<th>Prerequisite</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>FILM AS LITERATURE</td>
<td>053900</td>
<td>10-12</td>
<td>1 semester</td>
<td>None</td>
<td>1 – Core Elective (English)</td>
</tr>
<tr>
<td>FORENSICS, SPEECH AND DEBATE 1</td>
<td>055100</td>
<td>9-12</td>
<td>1 semester</td>
<td>None</td>
<td>1 – Core Elective (English)</td>
</tr>
<tr>
<td>JOURNALISM</td>
<td>054305 A/B</td>
<td>10-12</td>
<td>1 year</td>
<td>Students are accepted only after an application process</td>
<td>2 – Core Elective (English)</td>
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<tr>
<td>MYTHOLOGY</td>
<td>053500</td>
<td>9-12</td>
<td>1 semester</td>
<td>None</td>
<td>1 – Core Elective (English)</td>
</tr>
<tr>
<td>SHAKESPEARE ALIVE!</td>
<td>053170</td>
<td>9-12</td>
<td>1 semester</td>
<td>None</td>
<td>1 – Core Elective (English)</td>
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<tr>
<td>SPEECH</td>
<td>055000</td>
<td>9-12</td>
<td>1 semester</td>
<td>None</td>
<td>1 – Core Elective (English)</td>
</tr>
<tr>
<td>YEARBOOK</td>
<td>054900 A/B</td>
<td>10-12</td>
<td>1 year</td>
<td>Students are accepted only after an application process</td>
<td>2 – Core Elective (English)</td>
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Through this course, students will analyze film as a record of human experience while focusing on the literary elements inherent in the film genre.

Notes: Students will focus on analyzing films adapted from literary works as well as films from original screenplays. They will learn to identify symbolism, theme, images, and other aspects of literature through visual and audio techniques. Students will also learn comparison and contrast techniques when examining these films and they will write analytical essays. Projects and assignments that demonstrate their understanding of the language of film and how directors make meaning using various cinematic techniques.

This course is designed for the seriously competitive speech student. It stresses participation for forensics competition in the following events: original oratory, debate, extemporaneous speaking, congress, and interpretation of drama, poetry and humor.

Notes: This course is designed to introduce students to competitive speech. Students will participate in a minimum of two events and will be expected to participate in at least two weekend competitions and the AAHS Congress. Students will be encouraged to join the forensics team. This course will only be offered in the fall semester.

Students will learn aspects of journalistic writing and production with emphasis on copy, design and photography. Students will practice interviewing techniques, write headlines and subheads, 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 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.

This course explores Shakespeare’s work deeply and broadly. We will study plays that are not studied in other English classes, as well as some of the bard’s poetry. In addition to reading and discussing the plays, we will watch videos to complement our learning. Students should come away from this class with a deeper understanding and appreciation of Shakespeare and his influence both historically and in our current times.

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.

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.
Six semesters of mathematics, including Algebra 1 and Geometry, are required for graduation. In the year-long Mathematics Core classes, passing the first semester is a prerequisite for the second semester.

Students interested in enrolling in an Honors math class should consult their current math teacher as to whether this would be the correct placement.
APPLIED GEOMETRY
Grade: 9-11
Prerequisite: Teacher recommendation

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
Grade: 9-11
Prerequisite: Pre-Algebra, Applied Algebra, or equivalent
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
Grade: 9-12
Prerequisite: Algebra 1 or equivalent

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: NO completion of 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.

ALGEBRA 2
Grade: 9-12
Prerequisite: Geometry or equivalent
Special materials: Graphing Calculator Required

Topics in previous algebra courses are built upon, and the additional topics of polynomials, rational, exponential, and logarithms 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.

HONORS ALGEBRA 2*
Grade: 9-11
Prerequisite: Geometry or equivalent and teacher recommendation
Special materials: Graphing Calculator Required

Topics in previous algebra courses are built upon, and the additional topics of polynomials, rational, exponential, and logarithms 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.

ALGEBRA 3
Grade: 10-12
Prerequisite: Algebra 2 or equivalent and teacher recommendation
Special materials: Graphing 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.
### ADVANCED ALGEBRA AND FINANCIAL APPLICATIONS

**Course # 111900 A/B**

- **Grade:** 11-12
- **Prerequisite:** Algebra 2 and teacher recommendation
- **Length:** 1 year
- **Credits:** 2 – Math

Topics in linear, quadratic, exponential, logarithmic and trigonometric functions, banking finances and taxation will be presented. Integrating other fields of study into real-world applications helps create meaning for the students and will be emphasized.

*Notes: This class for 11-12 graders is an alternative to Pre-calculus, for students leaning toward non-science/math majors*

### PRE-CALCULUS

**Course # 113000 A/B**

- **Grade:** 9-12
- **Prerequisite:** Algebra 3 and teacher recommendation
- **Length:** 1 year
- **Credits:** 2 – Math

Pre-Calculus builds upon topics covered in Algebra 2 and Algebra 3. Additional topics include analytical geometry, vectors, polar coordinates, and introductory calculus. Problems are linked to real-world applications with an emphasis on graphing, vocabulary, and technical writing. This course is designed to prepare students for calculus and college mathematics.

*Note: May be taken for college credit through UCCS.*

### HONORS PRE-CALCULUS*

**Course # 113005 A/B**

- **Grade:** 9-12
- **Prerequisite:** Honors Algebra 2 or Algebra 3, and teacher recommendation
- **Length:** 1 year
- **Credits:** 2 – Math

Topics in Algebra 2 and FST are built upon and the additional topics of analytical geometry, vectors, polar coordinates, and introductory calculus are presented. 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 as well as to prepare students for college mathematics and calculus. Strong performance in prerequisite courses is essential to meet the increased expectations.

*Note: May be taken for college credit through UCCS.*

### STATISTICS

**Course # 117000 A/B**

- **Grade:** 10-12
- **Prerequisite:** Algebra 2, or equivalent and teacher recommendation
- **Length:** 1 year
- **Credits:** 2 – Math

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

### AP STATISTICS*

**Course # 117005 A/B**

- **Grade:** 10-12
- **Prerequisite:** Algebra 3 or equivalent and teacher recommendation
- **Length:** 1 year
- **Credits:** 2 – Math

The AP Examination fee for the year 2020 will be ~ $100.00.

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 topic related to the collection, organization, and analysis of data. Topics include descriptive statistics, probability, simulation, binomial and normal distributions, hypothesis testing, and statistical inference.

*Note: May be taken for college credit through UCCS.*

### AP CALCULUS AB*

**Course # 113100 A/B**

- **Grade:** 9-12
- **Prerequisite:** Pre-Calculus and teacher recommendation
- **Length:** 1 year
- **Credits:** 2 – Math

The AP Examination fee for the year 2020 will be ~ $100.00.

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.

*Note: May be taken for college credit through UCCS.*
**AP CALCULUS BC**

Course # 113200 A/B

Grade: 9-12

Prerequisite: Pre-calculus and teacher recommendation.

Co-requisite: Extended Studies – Advanced Math Learners

Special materials: Graphing Calculator Required

The AP Examination fee for the year 2020 will be ~ $100.00.

At the conclusion of this course, students will be expected to take the Advanced Placement Calculus BC exam for potential college credit. **Note:** May be taken for college credit through UCCS. 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 during a 80-minute block each day and is more extensive than AP Calculus AB.

**EXTENDED STUDIES – ADVANCED MATH LEARNERS**

Course # 110065 A/B

Grade: 11-12

Prerequisite: Algebra 3 or Higher

Co-requisite: AP Calculus BC

Special Materials: Graphing Calculator Required

This course offers students additional topics and extensions that support students concurrently enrolled in Honors, Advanced Placement, and International Baccalaureate courses. Extended Studies for Advanced Math Learners will allow students to extend and apply core content classroom learning through additional course material and/or laboratory time.

Note: This course receives Core Elective credit; it does not receive math credit.

**CALCULUS 3 – MULTIVARIABLE CALCULUS**

Course # 113900

Grade: 11-12

Prerequisite: AP Calculus BC

This course is equivalent to a third semester college calculus course. Differential and integral calculus of several variables are the focal points of this college-level course which extends the advanced placement calculus experience to three dimensions, culminating in the calculus applications to physics with Stokes’, Green’s, and Gauss’ Theorems.

Note: May be taken for college credit through UCCS.
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 musically. 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. Music courses may be repeated for credit.

**General Music**

- **Beginning Guitar**
  - Grades: 9-12
  - 1 semester

- **Advanced Guitar**
  - Grades: 9-12
  - 1 semester

- **Music Technology**
  - Grades: 9-12
  - 1 semester

- **Music Appreciation**
  - Grades: 9-12
  - 1 semester

- **Beginning Music Theory**
  - Grades: 10-12
  - 1 semester

- **AP Music Theory**
  - Grades: 11-12
  - 1 year

**Instrumental**

- **Jazz Ensemble**
  - Grades: 9-12
  - 1 year

- **Advanced Jazz Ensemble**
  - Grades: 10-12
  - 1 year

- **Color Guard**
  - Grades: 9-12
  - 1 year

- **Instrumental Ensembles**
  - Grades: 9-12
  - 1 semester

- **Marching Band**
  - Grades: 9-12
  - 1 semester

- **Percussion Techniques**
  - Grades: 10-12
  - 1 semester

- **String Orchestra**
  - Grades: 9-12
  - 1 year

- **Symphonic Band**
  - Grades: 9-12
  - 1 semester

- **Wind Ensemble**
  - Grades: 9-12
  - 1 semester

**Vocal**

- **Festival Singers**
  - Grades: 9-12
  - 1 year

- **A Capella Ensemble**
  - Grades: 10-12
  - 1 year

- **Women's Ensemble**
  - Grades: 11-12
  - 1 year

- **Chamber Singers**
  - Grades: 9-12
  - 1 year

- **Jazz Choir**
  - Grades: 10-12
  - 1 year

- **Men's Ensemble**
  - Grades: 9-12
  - 1 year

**Theatre/Dance**

- **Music Theater and Dance**
  - Grades: 9-12
  - 1 semester

- **Theater 1**
  - Grades: 9-12
  - 1 semester

- **Theater 2**
  - Grades: 9-12
  - 1 semester

- **Theater 3/Advanced Acting**
  - Grades: 10-12
  - 1 year

- **Theater 4/Directing**
  - Grades: 10-12
  - 1 year
### ADVANCED GUITAR

Course # 125005  
Grade: 9-12  
Prerequisite: Beginning Guitar or audition (to meet competency level)  
Fee: $35.00 enrichment fee  
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.

### BEGINNING GUITAR

Course # 125000  
Grade: 9-12  
Prerequisite: None  
Fee: $35.00 enrichment fee  
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.

### BEGINNING MUSIC THEORY

Course # 123000  
Grade: 10-12  
Prerequisite: Teacher approval  
Fee: $35.00 Workbook Fee

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 over-tone series, historical significance of music, and keyboard harmony.*

### AP MUSIC THEORY

Course # 123010 A/B  
Grade: 11-12  
Prerequisite: Beginning Music Theory  
Fee: TBD

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.

### MUSIC APPRECIATION

Course # 127000  
Grade: 9-12  
Prerequisite: None  
Fee: $30.00

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.

### MUSIC TECHNOLOGY

Course # 123015  
Grade: 9-12  
Prerequisite: None  
Fee: $30.00

Students will learn about everything that happens in a professional recording studio or being able to set up a sound system for any concert. Students will learn sound reinforcement techniques, computer editing, and MIDI and digital computer programs. This class will also explore many careers in music that support musical performance.

### ADVANCED JAZZ ENSEMBLE

Course # 125040 A/B  
Grade: 10-12  
Prerequisite: Audition  
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.

*Notes: This class will be taught outside the traditional school day, after school every day. Transportation is NOT provided.*
COLOR GUARD
Grade: 9-12
Prerequisite: Audition
Fee: $400
Auditions for color guard will be held during the previous spring semester

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 www.airacademyband.org 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.

INSTRUMENTAL ENSEMBLES
Grade: 9-12
Prerequisite: None
Fee: $35.00

Students will practice and perform a variety of solo and ensemble music as they improve their musical knowledge and performance skills. Students may be expected to perform in public appearances, school assemblies and events.

JAZZ ENSEMBLE
Grade: 9-12
Prerequisite: Instructor approval
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.

Notes: Auditions are required to enter this course. Auditions will be held the preceding spring. Students currently enrolled in Instrumental Ensemble/Band program will have the first opportunity to audition.

MARCHING BAND
Grade: 9-12
Prerequisite: None
Fee: $400.00

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.

Notes: Mandatory summer marching band camp dates will be posted on www.airacademyband.org in January

After marching season, the large band will be divided into two concert ensembles.

PERCUSSION TECHNIQUES
Grade: 10-12
Prerequisite: Instructor approval/audition
Fee: $35.00

The 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.

STRING ORCHESTRA
Grades: 9-12
Prerequisite: Previous string instrument experience
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.
SYMPHONIC BAND
Course # 125055 B
Grades: 9-12
Length: 1 semester
Prerequisite: None
Credit: 1 / 2 – Arts or Unrestricted Elective

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.

WIND ENSEMBLE
Course # 125060 B
Grade: 9-12
Length: 1 semester
Prerequisite: None
Credits: 2 / 1 – Arts or Unrestricted Elective

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 ENSEMBLES
Course # 124001 A/B
Grade: 10-12
Length: 1 year
Prerequisite: Audition; previous choral music class; piano background is encouraged
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.

Notes: Students are asked to put in outside practice time. Payment for performance attire must be made by December 1.

CHAMBER SINGERS
Course # 124005 A/B
Grade: 11-12
Length: 1 year
Prerequisite: Audition. Previous vocal music classes for at least one semester.
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 university and state competitions. Students are asked to put in outside practice time. Students are required to purchase performance attire.

Note: Payment for performance attire must be made by December 1.

FESTIVAL SINGERS
Course # 124015 A/B
Grade: 9-12
Length: 1 year
Prerequisite: Audition. Previous vocal music experience
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.

Notes: Students are asked to put in outside practice time. Payment for performance attire must be made by December 1.

JAZZ CHOIR
Course # 124020 A/B
Grade 10-12
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.

Notes: Payment for performance attire must be made by December 1.

MEN'S ENSEMBLE
Course # 124025 A/B
Grade: 9-12
Length: 1 year
Prerequisite: Previous choral experience or teacher approval
Credits: 2 – Arts or Unrestricted Elective
Fee: $35.00

Students will develop vocal technique while studying standard musical literature. Styles include popular and traditional genres. Students are expected to participate in public performances, school assemblies and events. Students may be required to purchase performance attire.
WOMEN’S ENSEMBLE
Grade: 9-12
Prerequisite: Audition. Previous choir classes
Fee: $35.00

This advanced choir will focus on standard women’s vocal literature on an intermediate level. Participation in this group requires special rehearsals and performances. Vocal techniques will be stressed, and a variety of musical styles and literature will be performed. Students will be required to purchase a performance outfit.

Note: Payment for performance attire must be made by December 1.

MUSIC THEATER & DANCE
Grades: 9-12
Prerequisite: Instructor Approval

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.

THEATER 1
Grade: 9-12
Prerequisite: None

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.

THEATER 2
Grade: 9-12
Prerequisite: Theater/Drama 1

This course continues to build on the student’s 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.

THEATER 3/ADVANCED ACTING
Grade: 10-12
Prerequisite: Theater/Drama 2 and instructor approval
Fee: $35.00 enrichment fee

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.

THEATER 4/DIRECTING
Grade: 10-12
Prerequisite: Theater/Drama 3 and instructor approval
Fee: $35.00

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 audition’s 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.

Notes: This course meets with Theater 3 as these are the acting students they will be directing
Three semester credits of Physical Education and 1 semester of Health are required for graduation. It is recommended that freshman take Introduction to Physical Education as it is a class designed especially for freshman 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.**

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**Required**

Health and Wellness

Grades: 9-12

1 semester

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**Freshman Options**

(All 1 semester)

- Intro to PE
  Grades: 9
  1 semester

- Total Fitness
  Grades: 9-12

- Weights & Fitness 1
  Grades: 9-12

- Women's Weights & Fitness
  Grades: 9-12

- Basketball: Shooting
  Grades: 9-12

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**10th -12th Grade Options**

(All 1 semester)

- Basketball: Shooting
  Grades: 9-12

- Total Fitness
  Grades: 9-12

- Women's Weights & Fitness
  Grades: 9-12

- Fitness Through Dance
  Grades: 10-12

- Creative Dance
  Grades: 10-12

- Weights & Fitness 1
  Grades: 9-12

- Weights & Fitness 2
  Grades: 10-12

- Fitness Through Dance
  Grades: 10-12

- Peer Partner PE
  Grades: 10-12

- Fitness Yoga 1
  Grades: 10-12

- Fitness Yoga 2
  Grades: 10-12

- Lifelong Team Sports
  Grades: 10-12

- Sports Training
  Grades: 10-12

- Racquet Sports
  Grades: 10-12

- Speed Training
  Grades: 10-12

- Rocky Mtn High 1
  Grades: 11-12

- Rocky Mtn High 2
  Grades: 11-12

- Rocky Mtn High Leadership
  Grades: 11-12
HEALTH & WELLNESS
Grade: 9-12
Prerequisite: None
Fee: $23.00 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.

INTRODUCTION TO PHYSICAL EDUCATION
Grade: 9
Prerequisite: None
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.

BASKETBALL: SHOOTING
Grade: 9-12
Prerequisite: None
Fee: AAHS approved PE uniform required

This course is designed for the sincere hoopster. Individual fundamental skills, screening techniques, and various offensive and defensive systems are taught under intensive conditions. Students must want to learn, work hard, and improve their game.

TOTAL FITNESS
Grade: 9-12
Prerequisite: None
Fee: 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, kick-boxing, Tae-Bo, running, hiking, walking, interval training, resistance strength training, Pilates, yoga, slide training, fitball, and biking.

Notes: Aerobic Fitness will be emphasized.

WOMEN'S WEIGHTS AND FITNESS
Grades 9-12
Prerequisite: None
Fee: 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.

WEIGHTS AND FITNESS 1
Grade: 9-12
Prerequisite: None
Fee: 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.

WEIGHTS AND FITNESS 2
Grade: 10-12
Prerequisite: Weights and Fitness 1 or instructor approval
Fee: 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.
FITNESS THROUGH DANCE
Course # 083310
Grade: 10-12
Prerequisite: None
Fee: AAHS approved PE uniform required
Length: 1 semester
Credits: 1 – PE or Unrestricted Elective

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.

CREATIVE DANCE
Course # 083300
Grade: 10-12
Prerequisite: Fitness Through Dance and instructor approval.
Fee: AAHS approved PE uniform required
Length: 1 semester
Credits: 1 – PE or Unrestricted Elective

In this dance class, students will work cooperatively with other students and discover the many parts to a dance performance, including costumes, make up, lighting, and choreography. Students will attend live dance performances and critique the different aspects of the production. Choreography will be a large part of this class along with learning about the history of dance companies. Students will then be brought together in a culminating performance.

Notes: Two years of dance experience recommended.

FITNESS YOGA 1
Course # 083015
Grade: 10-12
Prerequisite: None
Fee: AAHS approved PE uniform required
Length: 1 semester
Credits: 1 – PE or Unrestricted Elective

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.

FITNESS YOGA 2
Course # 083016
Grade: 10-12
Prerequisite: Fitness Yoga 1
Fee: AAHS approved PE uniform required
Length: 1 semester
Credits: 1 – PE or Unrestricted Elective

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.

LIFELONG TEAM SPORTS
Course # 083800
Grade: 10-12
Prerequisite: None
Fee: AAHS approved PE uniform required
Length: 1 semester
Credits: 1 – PE or Unrestricted Elective

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.

PEER PARTNER PHYSICAL EDUCATION
Course # 083005
Grade: 10-12
Prerequisite: 1 semester of PE and instructor approval (for Peer Partners only)
Fee: AAHS approved PE uniform required
Length: 1 semester
Credits: 1 – PE or Unrestricted 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.

RACQUET SPORTS
Course # 083525
Grade: 10-12
Prerequisite: None
Fee: AAHS approved PE uniform required
Length: 1 semester
Credits: 1 – PE or Unrestricted Elective

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.
SPEED TRAINING  
Course # 083230  
Grade:  10-12  
Length: 1 semester  
Prerequisite:  None  
Credits: 1 – PE or Unrestricted Elective  
Fee:  AAHS approved PE uniform required – see page 48  

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  
Course # 083815  
Grade:  10-12  
Length: 1 semester  
Prerequisite:  Weights and Fitness I or instructor approval  
Credits: 1 – PE or Unrestricted Elective  
Fee:  AAHS approved PE uniform required – see page 48  

This class is designed to create special weights and fitness programs for students in a sport or athletic activity, both in-season and out-of-season. The class is fitness intensive and designed for students who desire vigorous cardiovascular exercise and strength training.

FITNESS HIKING/WALKING  
Course # 084410  
Grade:  11-12  
Length: 1 semester  
Prerequisite:  None  
Credits: 1 – PE or Unrestricted Elective  
Fee:  AAHS approved PE uniform required – see page 48  
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.

LIFELONG RECREATION SPORTS  
Course # 084000  
Grade:  11-12  
Length: 1 semester  
Prerequisite:  None  
Credits: 1 – PE or Unrestricted Elective  
Fee:  AAHS approved PE uniform required – see page 48  
Total fees will be approximately $100 for this course to include: $4.00 per Bowling session paid at the bowling alley, $5.00 per Skating session and other fees as units require.

Transportation to Academy Lanes is NOT provided

Students must have the ability to bring a bicycle and helmet to school for the cycling unit.

This class places an emphasis on lifelong activities that may include activities such as golf, archery, bowling, cycling, tennis, aerobics, roller skating, badminton, aquatic activities, board games, juggling, weights and other special recreational activities. Conditioning and fitness will be included through various aerobic activities.

ROCKY MOUNTAIN HIGH 1  
Course # 083600  
Grade:  11-12  
Length: 1 semester  
Prerequisite:  Instructor approval  
Credits: 1 – PE or Unrestricted Elective  
Fee:  AAHS approved PE uniform required – see page 48  
$40 + fees for field trips and equipment

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.

ROCKY MOUNTAIN HIGH 2  
Course # 083605  
Grade:  11-12  
Length: 1 semester  
Prerequisite:  Rocky Mountain High 1, Instructor approval  
Credits: 1 – PE or Unrestricted Elective  
Fee:  AAHS approved PE uniform required – see page 48  
$40 + fees for field trips and equipment

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.

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

**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 – Core classes**

- **Earth Science**  
  Grades: 9  
  1 year
- **Biology**  
  Grades: 10-12  
  1 year
- **Chemistry**  
  Grades: 10-12  
  1 year
- **Physics**  
  Grades: 11-12  
  1 year
- **Honors Earth Science**  
  Grades: 9  
  1 year
- **Honors Biology**  
  Grades: 9-10  
  1 year
- **Honors Chemistry**  
  Grades: 10-12  
  1 year
- **Honors Physics**  
  Grades: 11-12  
  1 year

**AP Courses**

- **AP Biology**  
  Grades: 11-12  
  1 year
- **AP Chemistry**  
  Grades: 11-12  
  1 year
- **AP Physics**  
  Grades: 11-12  
  1 year
- **AP Environmental Science**  
  Grades: 11-12  
  1 year

**Electives**

- **Astronomy 1**  
  Grades: 10-12  
  1 semester
- **Astronomy 2**  
  Grades: 11-12  
  1 semester
- **Anatomy & Physiology**  
  Grades: 11-12  
  1 year
- **Environmental Science**  
  Grades: 9-12  
  1 semester
- **Forensic Science 1**  
  Grades: 10-12  
  1 year
- **Forensic Science 2**  
  Grades: 11-12  
  1 year
- **Organic Chemistry**  
  Grades: 11-12  
  1 semester

These Science Courses require the following MATH course to be completed or be taken at the same time:
- Honors Earth Science -------------- Algebra 1
- Honors Biology ------------------- Geometry
- Chemistry ------------------------ Algebra 2
- 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  
Course # 132000 A/B  
Grade: 11-12  
Prerequisite: Successful completion of Biology  
Fee: $15.00 lab fee

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  
Prerequisite: Algebra 1  
Fee: $5.00 lab fee

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: 11-12  
Prerequisite: Concurrent enrollment or completion of Algebra 2 or higher  
Fee: $5.00 lab fee

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  
Course # 132015 A/B  
Grade: 10-12  
Prerequisite: None  
Fee: $5.00 lab fee

Biology provides 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 through the use of 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.

HONORS BIOLOGY*  
Course # 132020 A/B  
Grade: 9-10  
Prerequisite: Geometry or concurrent enrollment in Geometry  
Fee: $5.00 lab fee

Honors Biology provides 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, bio-ethics, 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 through the use of 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.

AP BIOLOGY*  
Course # 132025 A/B  
Grade: 11-12  
Prerequisite: Biology and Chemistry  
Fee: $40.00 lab fee

The AP Examination fee for the year 2020 will be ~ $100.00.

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 form 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 as determined by the College Board and it will require significant work outside of class.
CHEMISTRY
Grade: 10-12
Prerequisite: Credit for or concurrent enrollment in Algebra 2
Fee: $5.00 lab fee

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.

HONORS CHEMISTRY*
Grade: 10-12
Prerequisite: Credit for or concurrent enrollment in Honors Algebra 2
Fee: $15.00 lab fee

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, 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*
Grade: 11-12
Prerequisite: Chemistry or Honors Chemistry
Fee: $15.00-Laboratory Fee
$80- recommended College Textbook for course (purchase of textbook is not required)

The AP Examination fee for the year 2020 will be ~ $100.00.

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.

EARTH SCIENCE
Grade: 9
Prerequisite: None
Fee: $5.00 lab fee

Earth Science is a lab-centered course covering subjects in geological and astronomical science as well as meteorology and oceanography. In addition, Earth Science explores how science, technology and human activity can affect the world.

Notes: During class time students will be engaged in laboratory investigations, collaborative learning, and decision-making activities. A variety of resource materials will be used rather than a single textbook.

HONORS EARTH SCIENCE*
Grade: 9
Prerequisite: Algebra 1 or concurrent enrollment in Algebra 1
Length/Credit: 1 year/2 Credits – Science Credit
FEE: $5.00 lab fee
Weighted: Yes

Honors Earth Science studies all topics included in Earth Science in addition to societal issues and investigation in relation to these topics. Students are expected to work in an independent manner and complete projects that develop understanding of the topics covered. Applications in this course are designed to strengthen abstract reasoning and critical thinking skills.

HONORS ART INTEGRATED EARTH SCIENCE*
Grade: 9
Prerequisite: None

Using critical thinking, information literacy, invention, collaboration and self-direction, student in Honors Art Integrated Earth Science study all topics included in Earth Science in addition to societal issues and investigation in relation to these topics. Using a curriculum infused with the arts, students are expected to work in an independent manner as well as collaboratively to complete projects that develop understanding of the topics covered. Applications in this course are designed to strengthen abstract reasoning and critical thinking skills. This course has a lab component.
<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Length/Credit</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVIRONMENTAL SCIENCE</td>
<td>9-12</td>
<td>1 semester</td>
<td>$5.00</td>
</tr>
<tr>
<td>AP ENVIRONMENTAL SCIENCE*</td>
<td>11-12</td>
<td>1 year</td>
<td>$5.00 lab fee</td>
</tr>
<tr>
<td>FORENSIC SCIENCE 1</td>
<td>11-12 (Grade 10 with teacher approval)</td>
<td>1 year</td>
<td>$15.00 lab fee</td>
</tr>
<tr>
<td>FORENSIC SCIENCE 2</td>
<td>11-12</td>
<td>1 year</td>
<td>$15.00 lab fee</td>
</tr>
<tr>
<td>ORGANIC CHEMISTRY</td>
<td>11-12</td>
<td>1 semester</td>
<td>$5.00</td>
</tr>
<tr>
<td>PHYSICS</td>
<td>11-12</td>
<td>1 year</td>
<td>$5.00 lab fee</td>
</tr>
</tbody>
</table>

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, 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.

The AP Examination fee for the year 2020 will be ~ $100.00.

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 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 is a year-long lab-base 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.

Organic Chemistry is a one semester lab-based science course. The lecture portion of the course will cover covalent bonds and shapes of molecules, alkanes and cycloalkanes, stereochemistry and chirality, organic acids and bases, alkenes and electrophilic addition reaction, alkynes, haloalkanes and radical reactions, nucleophilic substitution and beta elimination, and alcohols. The lab portion of this course will focus on techniques incorporated in an organic laboratory and activities designed to strengthen student understanding of topics covered in the lecture portion of the class.

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: 10-12  
Prerequisite: Pre-Calculus or concurrent enrollment in Pre-Calculus  
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.  

Notes: recommended successful completion or concurrent enrollment in Honors Chemistry

AP PHYSICS*  
Course # 133210 A/B  
Grade: 11-12  
Prerequisites: Physics, and credit for or concurrent enrollment in Calculus  
Fee: $25.00 lab fee  
The AP Examination fee for the year 2020 will be ~ $100.00.

At the conclusion of the course the students will be expected to take the Advanced Placement exam for potential college credit. AP Physics meets the objectives of a college level general physics course. Topics covered include mechanics (kinematics, dynamics, statics, rotational mechanics, and the conservation laws) and electromagnetic theory (electrostatics, circuits and magnetism). All necessary calculus techniques are introduced, however, enrollment in calculus is required as a pre-requisite or co-requisite.  

Notes: recommended successful completion or concurrent enrollment in Honors or AP Chemistry
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: Civics and two semesters of United States history.

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

### Social Studies – Core classes

#### Grade 9
- World Regional Geography
  - Grades: 9
  - 1 year
- Honors World Regional Geography
  - Grades: 9
  - 1 year
- Honors Arts Integrated World Geography
  - Grades: 9
  - 1 year
- AP Human Geography
  - Grades: 9
  - 1 year

#### Grade 10
- World History & Geography
  - Grades: 10
  - 1 year
- Honors World History
  - Grades: 10
  - 1 year
- Honors Arts Integrated World History
  - Grades: 10
  - 1 year
- AP European History
  - Grades: 10-12
  - 1 year

#### Grade 11
- US History & Geography
  - Grades: 11-12
  - 1 year
- Honors US History & Geography
  - Grades: 11-12
  - 1 year
- AP US History
  - Grades: 11-12
  - 1 year

#### Grade 12
- Civics & Law
  - Grades: 12
  - 1 semester
- AP US Government & Politics
  - Grades: 11-12
  - 1 year

### Electives

- Colorado History & Geography
  - Grades: 9-12
  - 1 semester
- Economics
  - Grades: 10-12
  - 1 semester
- Psychology
  - Grades: 10-12
  - 1 semester
- International Relations
  - Grades: 9-10
  - 1 semester
- Multi-Cultural America
  - Grades: 10-12
  - 1 semester
- AP Psychology
  - Grades: 10-12
  - 1 year
- Street Law
  - Grades: 9-10
  - 1 semester
- Sociology
  - Grades: 10-12
  - 1 semester
- 20th Century American History
  - Grades: 11-12
  - 1 semester
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.

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. Students will be expected to apply information to real world situations, utilizing analysis, synthesis, and evaluation. 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. Access to a student atlas for home use is recommended.

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.

HONORS ART INTEGRATED WORLD REGIONAL GEOGRAPHY*
Grade: 9
Prerequisite: None

Using critical thinking, information literacy, invention, collaboration and self-direction, Honors Art Integrated World Regional Geography is thematically based, focusing on the physical, cultural and political aspects of earth. Students will be expected to apply information to real world situations, utilizing analysis, synthesis and 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.

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.

AP HUMAN GEOGRAPHY*
Grade: 9
Prerequisite: None

The AP Examination fee for the year 2018 will be ~$100.00.

At the conclusion of the course the students will be expected to take the Advanced Placement exam for potential college credit. This class is an advanced survey of college-level Human Geography and is designed to prepare students for the Advanced Placement test in May. Topics include population and migration; culture and language; religion and ethnicity; agriculture and rural land use; industrialization and economic development; and urban land use. There will be one mandatory field trip each semester, each with a small transportation fee.

WORLD HISTORY/GEOGRAPHY
Grade: 10
Prerequisite: None

This course examines the major developments of world history from ancient civilizations to the modern era. Students will learn cause and effect relationships with an emphasis on political, economic, geographic, and social forces that shape the modern world.

HONORS WORLD HISTORY/GEOGRAPHY*
Grade: 10
Prerequisite: Teacher recommendation

Honors World History/Geography examines the major developments of world history from ancient civilizations to the modern era. This class is an advanced study of the cause and effect relationships that shape the modern world with an emphasis on politics, economics, geography, and social change. It is targeted to highly motivated students who desire an in-depth investigation of world history through research, projects, advanced essay writing, and critical thinking exercises.
Using critical thinking, information literacy, invention, collaboration and self-direction, Honors Arts Integrated World History examines the major developments of world history. This course is an advanced study of the cause and effect relationships that shape the modern world with an emphasis on politics, economics, geography, and social change. Students will be expected to apply information to real world situations, utilizing analysis, synthesis and 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 EUROPEAN HISTORY*
Grade: 10-12
Prerequisite: Social Studies teacher recommendation
The AP Examination fee for the year 2018 will be ~$100.00.

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.

U.S. HISTORY/GEOGRAPHY
Grade: 11-12
Prerequisite: None

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*
Grade: 11-12
Prerequisite: Teacher recommendation
The AP Examination fee for the year 2020 will be ~$100.00.

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.

(*It is recommended that students in the 12th grade take civics in the first semester of their senior year to help prepare them for the CMAS [Colorado Measure of Academic Success].)
AP GOVERNMENT AND POLITICS*  
Course # 157115 A/B  
Grade: 11-12  
Length: 1 year  
Prerequisite: Social Studies teacher recommendation  
Credits: 2 – Social Studies  
The AP Examination fee for the year 2020 will be ~$100.00.  
Civics 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 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.

COLORADO HISTORY AND GEOGRAPHY  
Course # 152300  
Grade: 9-12  
Length: 1 semester  
Prerequisite: None  
Credits: 1 – Social Studies

This course is designed to offer the learner an opportunity to better understand Colorado’s fascinating history and diverse geography. Learners will study and develop an appreciation for Colorado’s pre-history, Native Americans, frontier life, settlers, politics, and a variety of peoples who inhabit this beautiful state. The learner will be expected to know Colorado’s physical geography including its mountains, plains, valleys, plateaus, mesas, and rivers. The learner will be able to explain and understand Colorado’s economic base and diversification. The learner will come to know the many people who have contributed to the state’s and nation’s history. The learner will be able to identify Colorado’s towns and cities and analyze the challenges facing Colorado today and in the future.

INTERNATIONAL RELATIONS  
Course # 157310  
Grade: 9-10  
Length: 1 semester  
Prerequisite: None  
Credits: 1 – Social Studies

In the International Relations class, students develop an understanding of current international politics and develop a basis for analyzing and evaluating decisions that affect the world states. Global interdependency is stressed in political, economic and social relationships.

STREET LAW  
Course # 157125  
Grade: 9-10  
Length: 1 semester  
Prerequisite: None  
Credits: 1 – Social Studies

Street Law provides practical information and problem-solving opportunities that allow students to better survive in our society. The curriculum includes case studies, role-plays, small group exercises, and seminar-type class discussions. Special attention is paid to the U.S. Constitution as the supreme law of the land. Topics such as how the justice system works, the application of the Bill of Rights to daily life, criminal law, civil law, and family law is addressed. An emphasis is placed on Colorado law and its application.

ECONOMICS  
Course # 153000  
Grade: 10-12  
Length: 1 semester  
Prerequisite: None  
Credits: 1 – Social Studies

Economics studies the basic concepts of scarcity, opportunity cost, economic systems, and supply/demand. Topics covered include an understanding of the basic economic information distributed by mainstream media such as the unemployment rate, gross domestic product, inflation rate, monetary and fiscal policy, and how the economic decisions made by individuals, governments, and businesses impact members of society.  
Notes: Students will also gain a Business Economic component studying international trade, stocks, bonds, and investing. Curriculum instruction may be complemented by the use of computer simulations, a Junior Achievement business consultant and participation in the Stock Market Game.

MULTI-CULTURAL AMERICA  
Course # 155105  
Grade: 10-12  
Length: 1 semester  
Prerequisite: None  
Credits: 1 – Social Studies

Multi-Cultural 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.

SOCIOLOGY  
Course # 151000  
Grade: 10-12  
Length: 1 semester  
Prerequisite: None  
Credits: 1 – Social Studies

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 groups discussions are emphasized as are reading comprehension and writing skills.
PSYCHOLOGY  
Course # 158000  
Grade: 11-12  
Prerequisite: None  
Length: 1 semester  
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 other’s 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*  
Course # 158010 A/B  
Grades: 11-12  
Prerequisite: Social Studies Teacher recommendation  
Length: 1 year  
Credits: 2 – Social Studies

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.

20th CENTURY AMERICAN HISTORY  
Course # 155100  
Grade: 11-12  
Prerequisite: Teacher recommendation  
Length: 1 semester  
Credits: 1 – Social Studies

The 20th century has seen a dramatic evolution in history, culture, and social ideals. Over the course of this century, society has seen two world wars, a profound civil rights movement, and the military and social impacts of the Vietnam War, the birth of jazz, rock and roll, and the British Invasion. The entertainment stage has developed into a powerful medium for social commentary, and motion pictures have skyrocketed into the forefront of popular entertainment. This class will focus on history through literature, music, movies, and people who have helped to make this century so exciting. Students will read and write, but also view, discuss, and create films. Films, music, interviews, and expert presenters are just a few of the media that will be experienced. This course may not be substituted for U.S. History credit.
SPECIAL PROGRAMS

ACADEMY ONLINE HIGH SCHOOL COURSES
See Counselor
Grades: 9-12

AVID COURSES
AVID is an elective course for students interested in pursuing a rigorous high school curriculum and who would benefit from support in mastering the academic skills necessary for high school success and for admittance to four-year colleges and universities. The class focuses on writing, reading, inquiry, collaborative learning, public speaking and organization. Students will receive tutorial support, listen to guest speakers and take field trips to colleges to talk with college admissions representatives.

AVID 9
Grade: 9
Prerequisite: None
Course # 006000 A/B
Length: 1 year
Credits: 2 – Unrestricted Elective

AVID 10
Grade: 10
Prerequisite: None
Course # 006005 A/B
Length: 1 year
Credits: 2 – Unrestricted Elective

AVID 11
Grade: 10
Prerequisite: None
Course # 006010 A/B
Length: 1 year
Credits: 2 – Unrestricted Elective

AVID 12
Grade: 10
Prerequisite: None
Course # 006015 A/B
Length: 1 year
Credits: 2 – Unrestricted Elective

CHESS THEORY
Grade: 9-12
Prerequisite: None
Course # 084300
Length: 1 semester
Credits: 1 – Unrestricted Elective
This course is designed to teach students the essentials of chess strategies and tactics to improve both their chess ability as well as their overall problem-solving skills. Beginners learn basic game rules and opening tactical moves. Intermediate and advanced players learn sophisticated combinations and strategies and advanced opening moves. Students will be developing these skills by playing chess against other opponents, reading and studying chess books, and answering questions about chess strategies through reading and writing. Students will also analyze their own previously played games and then present their analysis of the games to the class.

CONCURRENT ENROLLMENT COURSES (CE)
See Dr. Beers
Grade: 11-12 (Grades 9 or 10 by waiver only)
Prerequisite: Counselor approval and 2 school months advance notice to the district.
Students must provide their own transportation.
Course # 191015
Length: 1 semester
Credits: 1 – Unrestricted Elective
See Page 16 guide. The Concurrent Enrollment Programs Act (CEPA) (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 eligibility and application criteria as identified by the statute and further defined by the district/high school

ELEMENTARY SCHOOL HELPERS PROGRAM
See counselor for more information and an application.
Course # 191015
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 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.
ENGLISH ESSENTIALS
Grades 11-12
Prerequisite: Teacher Recommendation
Course # 050075 A/B
Length: 1 semester
Credits: 1 – Unrestricted Elective

F.L.I.G.H.T. (For Learning, Intervention, Guidance, Help, & Tutoring)
Grade: 9-10
Prerequisite: teacher referral and guidance counselor recommendation.
Course # 190040
Length: 1 semester
Credits: 1 – Unrestricted Elective

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.

Notes: Counselors may facilitate small group discussions related to academic, personal/social or career concerns.

GUIDED STUDY HALL
Grades: 9-12
Prerequisite: none
Course # 191100 A/B
Length: 1 year
Credits: 1 (.5 per semester) – Unrestricted Elective

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. 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.

INDEPENDENT STUDY
Grade: 11-12
Prerequisite: Administrative approval
Course # 190011
Length: 1 semester
Credits: 1

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.

LEADERSHIP PSYCHOLOGY
Grade: 9-12
Prerequisite: None
Course # 19004
Length: 1 semester
Credits: 1 – Unrestricted Elective

Students will learn how to become a better leader, examining the mindset and strategies of successful leadership.

COMMUNITY LEADERSHIP
Grade: 10-12
Prerequisite: Leadership Psychology
Course # 191004
Length: 1 semester
Credits: 1 – Unrestricted Elective

In this course, students will learn and apply principles of effective leadership through observing leaders, learning about their community, and participating in a variety of learning experiences in the community and at school.

LIBRARY ASSISTANT
Grade: 10-12
Prerequisite: Librarian approval
Course # 191070
Length: 1 semester
Credits: 1 – Unrestricted Elective

This program is based on a contract agreement designed to train students in the operation of the library. This will include the database Library Solutions, basic library and office responsibilities, and assisting the Library staff as needed. The students will learn to operate fax and copy machines, shelve books, check-out materials, deliver materials, work with computers and audio-visual equipment, and assist all library users. Students will be expected to sign a contract for the skills and duties they will learn. They will also be expected to sign a Confidentiality Agreement prior to working in the library.
PARTIAL ABSENCE
Grade: 11-12 ONLY       Length: 1 semester

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. 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.)

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

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>191246A Partial Absence 1 – AM</td>
<td>191246B Partial Absence 1 – AM</td>
</tr>
<tr>
<td>191247A Partial Absence 2 – AM</td>
<td>191247B Partial Absence 2 – AM</td>
</tr>
<tr>
<td>191248A Partial Absence 1 – PM</td>
<td>191248B Partial Absence 1 – PM</td>
</tr>
<tr>
<td>191249A Partial Absence 2 – PM</td>
<td>191249B Partial Absence 2 – PM</td>
</tr>
</tbody>
</table>

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

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: Student 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.

PILOTS-(PREPARING INDIVIDUAL LEARNING OBSERVING THEIR STRENGTHS)
Course # 191115 A/B
Grade: 9-12       Length: 1 year
Prerequisite: Application process and/or counselor interview       Credits: 2 – Unrestricted Elective

Students will learn about the way the brain functions to identify personal strengths and weaknesses and how to self-advocate for learning. This class helps students to build the confidence and self-advocacy skills to be successful in high school and college. Students will also learn about accommodations and compensatory skills that will allow them the opportunity to lead their own teacher-parent conferences.

READING LAB 1
Course # 051105 A/B
Grade: 9       Length: 1 year
Prerequisite: Teacher recommendations       Credits: 2 – Core Elective (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.

READING LAB 2
Course # 051110 A/B
Grade: 10       Length: 1 year
Prerequisite: Teacher recommendations.       Credits: 2 – Core Elective (English)

This course continues to assist students with reading, writing, and related strategies. Instruction will concentrate on increased student reading skills, 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.

STUDENT ASSISTANT (Peer Tutor)
Course # 191045
Grades: 11-12       Length: 1 semester
Prerequisite: Instructor approval       Credits: 1 – Unrestricted Elective

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

This program is designed to train students to provide assistance to 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.

Only one assistantship may be held by a student per semester.
STUDENT GOVERNMENT  Course # 191080 A/B
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.

STUDENT HALL  Course # 191050
Grades: 9-12
Prerequisite: none

No credit is given for this class, which provides time for students to do homework. Attendance is mandatory.

STUDY SKILLS  Course # 191055
Grade: 9-12
Prerequisite: Students IEP only

This course is designed to assist students with organizational skills, test preparation, homework completion and test completion.

TEACHER ASSISTANTS  Course # 191065
Grade: 10-12
Prerequisite: None

This program is designed to train students to provide assistance to 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 a full credit toward athletic eligibility.

HONORS TEACHER CADET*  Course # 191130 A/B
Grade: 11-12
Prerequisite: None

Students will be involved in a fast-paced, innovative, hands-on curriculum where they gain knowledge about teaching and learning. Teacher cadets will develop and master effective skills that will be helpful in college and beyond such as presentations, public speaking, writing, communication, and reasoning. This is a yearlong, sequential, honors course with college credit options. Students will make a difference with children as they “try out” teaching in a “mini student teaching experience. Students are required to complete 50 hours of classroom field experiences outside of class time. Students have the opportunity to earn 6 college credits through UCCS for TED 1000 and TED 2000 at the cost of $75 per class or $150 total.

AP SEMINAR  Course # 050010 A/B
Grade: 11-12
Prerequisite: None

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational, library, and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

***CREDIT CLARIFICATION

FLIGHT: 1 credit—intensive supervision and instruction. For RtI identified students only.

Guided Study Hall: 1/2 credit—pass/fail—does appear on transcript but does not affect student’s GPA (it does not earn a letter grade and is not calculated into a student’s GPA). Teacher will prompt students on organization, studying, assignment completion and use of class time.

Student Assistant: 1 credit—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.

Study Hall: no credit—does not appear on transcript. This does not affect a student’s GPA (it does not earn a letter grade and is not calculated into a student’s GPA). 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.”

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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.
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 (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.

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 through the use of 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.

American Sign Language (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 IV 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.
FRENCH 1
Grade: 9-12
Prerequisite: None
Fee: $16.00 for workbook (optional)

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.

FRENCH 2
Grade: 9-12
Prerequisite: French 1
Fee: $16.00 for workbook (optional)

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.

FRENCH 3
Grade: 9-12
Prerequisite: French 2
Fee: $16.00 for workbook (optional)

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.

HONORS FRENCH 4*
Grade: 10-12
Prerequisite: French 3

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.

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.

HONORS FRENCH 5*
Grade: 10-12
Prerequisite: French 4
Fee: $40.00 for grammar workbook

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

Notes: In this class students will actively apply their accumulated listening, speaking, reading and writing skills in French. Through the readings of contemporary issues in the Francophone World, excerpts of well-known and universal French literature (Middle Ages – 21st century), and the analysis of film, students will develop a higher level of vocabulary and sentence structure which will assure their conversational and written proficiency and confidence. Students’ commitment to speaking French in the classroom is a core component.

AP FRENCH*
Grade: 11-12
Prerequisite: French 5 and teacher recommendation
Fee: $30 for a workbook

The AP Examination fee for the year 2020 will be ~$100.00.

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.

GERMAN 1
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.

Notes: Students will study introductions and talking about yourself; family, school, dress, geography. Activities include: sentence writing, conversation, short readings, listening comprehension, poster projects, team and individual competitions.
GERMAN 2  
Course # 062023 A/B  
Grade: 9-12  
Length: 1 year  
Credits: 2 – World Language  
Prerequisite: German 1

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.  

Notes: Students will study hobbies and free-time activities, the body and reflexive activities, careers, travel, learning the history of the German fairy tale. Grammar includes reflexive verbs, perfect and imperfect past tense, genitive case and the use of adjective endings.

GERMAN 3  
Course # 062024 A/B  
Grade: 9-12  
Length: 1 year  
Credits: 2 – World Language  
Prerequisite: German 2

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.  

Notes: Topics include: home, chore, food, health, driving and cars, expressing your individuality.

HONORS GERMAN 4*  
Course # 062027 A/B  
Grade: 10-12  
Length: 1 year  
Credits: 2 – World Language  
Prerequisite: German 3

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.  

Notes: The primary focus of this course is to provide students with the means to understand and express themselves on a variety of topics, such as ecology and the environment, love and relationships, war and politics and social concerns. In addition, the course includes as literature unit working with short stories. Activities include everything from poster projects to speeches to discussion circles.

HONORS GERMAN 5*  
Course # 062028 A/B  
Grade: 10-12  
Length: 1 year  
Credits: 2 – World Language  
Prerequisite: German 4

In German V students continue to expand their range of vocabulary and topics about which they can communicate in German. New vocabulary studied emphasizes a focus on advanced idioms. Grammar study consists of college-level, refined grammar elements, since students are already fluent in all basic grammar elements. Students read and discuss short stories by German authors, as well as a wide range of magazine and newspaper articles on current event topics relating both to world events and to events in everyday life. Activities also include weekly listening assignments, wherein students hear and respond to a recorded article or story 2 to 5 minutes in length, three to five ten-minute speeches on historical topics, and (second semester) weekly AP-style 200-word essays.

RUSSIAN 1  
Course # 062105 A/B  
Grade: 9-12  
Length: 1 year  
Credits: 2 – World Language  
Prerequisite: None

Students learn to communicate in Russian using various methods. Simple conversational language and grammar related to personal interests and Russian culture are used to draw connections and make comparisons.  

Notes: This course teaches you to read and write using the Russian alphabet – it’s easier than you might think! Additionally, it gives you the opportunity to communicate in Russian on a variety of topics. Learning is primarily done through storytelling.

RUSSIAN 2  
Course # 062110 A/B  
Grade: 9-12  
Length: 1 year  
Credits: 2 – World Language  
Prerequisite: Russian 1

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.

RUSSIAN 3  
Course # 062115 A/B  
Grade: 9-12  
Length: 1 year  
Credits: 2 – World Language  
Prerequisite: Russian 2

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.
HONORS RUSSIAN 4*
Course # 062120 A/B
Grade 10-12
Length: 1 year
Prerequisite: Russian 1
Credits: 2 – World Language

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.

SPANISH 1
Course # 062063 A/B
Grade: 9-12
Length: 1 year
Prerequisite: None
Credits: 2 – World Language

Students learn to communicate in Spanish using various methods. Simple conversational language and grammar related to personal interests and Spanish culture are used to draw connections and make comparisons.

SPANISH 2
Course # 062067 A/B
Grade: 9-12
Length: 1 year
Prerequisite: Spanish 1
Credits: 2 – World Language

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.

SPANISH 3
Course # 062071 A/B
Grade: 9-12
Length: 1 year
Prerequisite: Spanish 2
Credits: 2 – World Language

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.

HONORS SPANISH 4*
Course # 062081 A/B
Grade: 10-12
Length: 1 year
Prerequisite: Spanish 3 and teacher recommendation
Credits: 2 – World Language

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

AP SPANISH LANGUAGE*
Course # 062083 A/B
Grade: 11-12
Length: 1 year
Prerequisite: Spanish 4 and teacher recommendation
Fee: $45 workbook
Credits: 2 – World Language

The AP Examination fee for the year 2020 will be ~$100.00

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
Course # 062085 A/B
Grade: 11-12
Length: 1 year
Prerequisite: AP Spanish Language or Spanish 4
Fee: $45 workbook
The AP Examination fee for the year 2020 will be ~$100.00

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.
**FEES (subject to change)**

**AF JROTC**
- Leadership Education 1 ................ $40.00
- Leadership Education 2 ................ $25.00
- Leadership Education 3 ................ $25.00
- Leadership Education 4 ................ $25.00

**Art and Digital Media**
- AP Studio Art ................................... TBD
- Art 1 .............................................. $35.00
- Art 2 .............................................. $35.00
- Art 3 .............................................. $35.00
- Art 4 .............................................. $35.00
- Art in Public Places I ..................... $35.00
- Art in Public Places II .................... $35.00
- Ceramics 1 ..................................... $35.00
- Ceramics 2 ..................................... $35.00
- Ceramics 3 ..................................... $35.00
- Ceramics 4 ..................................... $35.00
- Computer Animation ....................... $30.00
- Computer Graphic Design 1 ............... $30.00
- Computer Graphic Design 2 ............... $30.00
- Digital Photography 1 ..................... $30.00
- Digital Photography 2 ..................... $30.00
- Digital Photography 3 ..................... $30.00
- Electronic Media 1 ............................ $25.00
- Honors Art .................................... $35.00
- IS Art .......................................... $35.00
- IS-Special Topics ............................ $35.00

**Career and Technical Education Department**

**Business and Marketing**
- Advanced Marketing/DECA ................ $55.00
- Creative Marketing 1/DECA ............... $55.00
- Marketing 2/DECA ............................ $55.00
- Marketing Work Study Co-op ............. $55.00
- Small Business Management/Entrepreneurship 1 $55.00
- Sports & Entertainment Marketing 1 ........ $55.00
- Sports & Entertainment Marketing 2 ........ $55.00

**Family and Consumer Science**
- Catering and Hospitality ................ $30.00
- Catering and Hospitality 2 ............ $30.00
- Interior Design 1 .......................... $30.00
- Interior Design 2 .......................... $30.00
- Living on Your Own ......................... $20.00
- Teen Choices .................................. $15.00

**Engineering Technology**
- Civil Engineering and Architecture .... $10.00
- Honors Aerospace Engineering .......... $20.00
- Honors Digital Electronics ............... $20.00
- Honors Introduction to Engineering Design .......... $10.00
- Honors Principles of Engineering ........ $15.00

**Math**
- **SSGraphing Calculator**
  All students in Algebra 1, Algebra 2 and beyond should obtain a graphing calculator. Although the Math Department will not recommend a specific calculator, instructors will be teaching with a Texas Instrument calculator (model TI-83 or TI-84). Please see your Math Instructor if obtaining such a calculator will be financially difficult.

**Performing Arts**
- Color Guard ................................... $400.00
- Festival Singers ............................ $35.00
- Jazz Choir .................................... $35.00
- Jazz Ensemble ............................... $35.00
- Instrumental Ensembles ................... $35.00
- Marching/Concert Band .................... $400.00
- Men’s Choir .................................. $35.00
- Music Technology ......................... $35.00
- Music Theory ............................... $35.00-text
- Percussion Techniques ..................... $35.00
- String Orchestra ........................... $35.00
- Theater 3/Advanced Acting ............... $35.00
- Theater 4/Directing ........................ $35.00
- Women’s Ensemble ......................... $35.00

**Physical Ed/Health & Wellness**
- The following Physical Education Classes require the AAHS Approved uniform (top $10.00/shorts $10.00 each or $20.00 for both)
  - Creative Dance
  - Fitness Hiking/Walking
  - Fitness Through Dance
  - Fitness Yoga
  - Introduction to Physical Education
  - Lifelong Team Sports 1
  - Lifelong Team Sports 2
  - Power Volleyball
  - Racquet Sports
  - Sports Training
  - Total Fitness
  - Weights and Fitness 1
  - Weights and Fitness 2
  - Women’s Weights and Fitness

**PE Courses with additional fees**
- Health & Wellness ............................ $23.00 (CPR) Optional
- Lifelong Recreation Sports ............... $3.00 per bowling session
- Rocky Mountain High 1 ................. $40.00
- Rocky Mountain High 2 ................ $40.00
- Rocky Mountain High Leadership ........ $40.00
- Scuba Diving ................................. $239.00 – Optional Trip additional

**Science**
- **All Science classes will have a $5.00 Lab Fee**
- Anatomy & Physiology .................... $15.00
- AP Biology ...................................... $40.00
- AP Chemistry .................................. $90.00 college text
- AP Chemistry Optional .................. $25.00
- AP Env. Science ............................. $5.00
- AP Physics .................................... $25.00
- Honors Chemistry ......................... $15.00
- Honors Physics ............................. $15.00
- Forensic Science .......................... $15.00

**Social Studies**
- AP Human Geography ....................... $20.00

**World Language**
- AP French ..................................... $30.00
- Honors French 5 .......................... $40.00
- AP Spanish Language ..................... $45.00
- AP Spanish Literature .................... $45.00

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Advanced Placement Examination Fees for 2020 will be approximately $100.00.
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