High School Information

Berthoud High School (BHS)
850 Spartan Avenue
Berthoud, CO 80513
Principal: Sarabeth Bliss
970-613-7700
Counseling Office: 970-613-7711
https://www.thompsonschools.org/berthoudhs

Harold Ferguson High School (FHS)
1101 Hilltop Drive
Loveland, CO 80537
Principal: Jason Germain
970-613-5300
Counseling Office: 970-613-5329
https://www.thompsonschools.org/ferguson

Loveland High School (LHS)
920 W 29th Street
Loveland, CO 80538
Principal: Todd Ball
970-613-5200
Counseling Office: 970-613-5203
https://www.thompsonschools.org/loveland

Mountain View High School (MVHS)
3500 Mountain Lion Drive
Loveland, CO 80537
Principal: Jane Harmon
970-613-7800
Counseling Office: 970-613-7823
https://www.thompsonschools.org/mountainview

Thompson Valley High School (TVHS)
1669 Eagle Drive
Loveland, CO 80537
Principal: Lanny Hass
970-613-7900
Counseling Office: 970-613-7916
https://www.thompsonschools.org/thompsonvalley

Waiver of Fees

Indigent students shall not be required to pay textbook rental or expendable materials fees.

An indigent student is defined as any child who is eligible for a free or reduced price lunch under the federal poverty income guidelines. Students qualifying for a fee waiver will receive it without unnecessary embarrassment or public exposure of their need. All fees for textbooks, expendable supplies and materials, and miscellaneous fees shall be waived for students in out-of-home placements, as that term is defined by C.R.S. 22-32-138 (1)(e). BOE Policy JQ

Thompson School District does not discriminate on the basis of race, color, creed, national origin, ancestry, sex, sexual orientation, age, disability, religion, or other status protected by law in admission or access to, or treatment and employment in, its programs and activities. The following individuals have been designated to handle inquiries regarding the District’s nondiscrimination policies: Director of Student Support Services, Thompson R2-J School District, 800 South Taft Avenue, Loveland, CO 80537, 970-613-5000; Director of Human Resources, Thompson R2-J School District, 800 South Taft Avenue, Loveland, CO 80537, 970-613-5000.
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<table>
<thead>
<tr>
<th>Department</th>
<th>Credit Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Applied Arts</strong></td>
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**English Language Arts**

<table>
<thead>
<tr>
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<tbody>
<tr>
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<td>English 10</td>
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<td>English 11</td>
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<tr>
<td>English 12</td>
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<tr>
<td>Speech</td>
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**Total Language Arts**

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<tr>
<td></td>
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**Fine Arts**

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<tr>
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**Electives**

<table>
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<tr>
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<td></td>
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**Mathematics**

<table>
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<tr>
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</tr>
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<tbody>
<tr>
<td></td>
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**Physical Education**

<table>
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<tr>
<th>Course</th>
<th>Credit Requirement</th>
</tr>
</thead>
<tbody>
<tr>
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<td>0.5</td>
</tr>
<tr>
<td>Health</td>
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</table>

**Total Physical Education**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Requirement</th>
</tr>
</thead>
<tbody>
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**Science**

<table>
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<tr>
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<th>Credit Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geophysical Science</td>
<td>1.0</td>
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<tr>
<td>Biology</td>
<td>1.0</td>
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<tr>
<td>Student option 3rd year</td>
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</table>

**Total Science**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3.0</td>
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**Social Studies**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Civics</td>
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</tr>
<tr>
<td>World Emphasis (Geography or History)</td>
<td>1.0</td>
</tr>
<tr>
<td>Modern America</td>
<td>1.0</td>
</tr>
<tr>
<td>Economics</td>
<td>0.5</td>
</tr>
</tbody>
</table>

**Total Social Studies**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3.0</td>
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</table>

**World Language**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.0</td>
</tr>
</tbody>
</table>

**Total Credit Requirement**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Requirement</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>24.0</td>
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</table>
## District Graduation Requirements Classes of 2021-2023

<table>
<thead>
<tr>
<th>Department</th>
<th>Diploma</th>
<th>Distinction Diploma</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Language Arts</td>
<td>4.0</td>
<td>4.0</td>
</tr>
<tr>
<td>Mathematics</td>
<td>3.0</td>
<td>4.0</td>
</tr>
<tr>
<td>Science <em>(at least two credits of science with a lab)</em></td>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>Social Studies <em>(Civics and at least one credit of U.S. or World History)</em></td>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>World Language</td>
<td>2.0</td>
<td>2.0</td>
</tr>
<tr>
<td>Fitness</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>Health</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Career Pathway Elective</td>
<td>4.0</td>
<td>7.0</td>
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<tr>
<td>Career Pathway Advanced Elective</td>
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<td>3.0</td>
</tr>
<tr>
<td><strong>Total Credit Requirement</strong></td>
<td><strong>24.0</strong></td>
<td><strong>28.0</strong></td>
</tr>
</tbody>
</table>

### Additional Requirements

- **Capstone**
- **Community Service (20 hours)**

### College and Career Ready Demonstrations

- **English Language Arts**
- **Mathematics**

**Diploma** - A student who fails to earn the 24 credits needed to receive a Thompson School District Diploma and who did not apply for a 20 credit Thompson School District Diploma before February 1 of their senior year, may be considered for the diploma by applying after July 1 following his/her scheduled graduation date. For more information about graduation requirements please visit [Thompson School District Graduation Policy](#).

**Post-Secondary College Course - Highly Recommended**

1.0 high school credit for college class(s) - (3.0 college credit hour courses = .50 high school credit)

**Capstone and Community Service**

Through the Capstone Experience, students will develop skills in critical thinking, reasoning, communication, collaboration, problem solving, innovation, self-direction, and resourcefulness needed to meet the challenges of participating in the 21st century world. This presentation will exhibit the student’s creative ability, critical thinking and communication skills while demonstrating a clear understanding of the essential activities needed to achieve their career/ life goals.

### Graduation Guidelines Menu of Options for Successful Demonstration of Competency

<table>
<thead>
<tr>
<th>ACT</th>
<th>English Language Arts</th>
<th>Mathematics</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥18</td>
<td>≥19</td>
<td></td>
</tr>
<tr>
<td>ACT WorkKeys</td>
<td>Bronze or Higher</td>
<td>Bronze or Higher</td>
</tr>
<tr>
<td>ACCUPLACER</td>
<td>62 on Reading Comprehension</td>
<td>61 on Elementary Algebra</td>
</tr>
<tr>
<td>≥2</td>
<td>≥2</td>
<td></td>
</tr>
<tr>
<td>ASVAB</td>
<td>≥31</td>
<td>≥31</td>
</tr>
<tr>
<td>College Course</td>
<td>C-</td>
<td>C-</td>
</tr>
<tr>
<td>Industry Certificate</td>
<td>Individualized</td>
<td>Individualized</td>
</tr>
<tr>
<td>≥4</td>
<td>≥4</td>
<td></td>
</tr>
<tr>
<td>Performance Assessment</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>SAT</td>
<td>470</td>
<td>500</td>
</tr>
</tbody>
</table>
Advanced Placement Program

Advanced Placement (AP) courses are offered at each of our district comprehensive high schools. AP courses follow a national curriculum provided by The College Board, the publishers of the SAT college entrance exam. These courses give students the opportunity to earn college credit while still in high school. Each May, AP exams are offered to students as they complete their coursework. Students earning a minimum score on the exam can receive either elective credit or course replacement credit depending on the college or university policy. Parents and students are encouraged to review these policies on the college website for colleges under consideration. These are college level courses that reflect a student’s willingness to follow the demands and rigor of college level studies. AP courses assist students in stretching themselves to think or learn at a higher level and will help students stand out in the college admission process.

Advanced Placement: The Facts and College Success
A high school curriculum of high academic intensity and quality found in Pre-Advanced Placement/Advanced Placement courses is the factor that most contributes to a student’s likelihood of completing a college degree. Exposure to this curriculum is a much better predictor of college success than a student’s high school GPA or test scores. A fee is required for each AP exam but can be waived through the CDE’s and ESCAPE grant upon request.

Pre-AP
Pre-AP classes engage students in active, high-level learning, thereby ensuring that every student develops the skills, habits of mind, and strategies to succeed in general coursework, Advanced Placement courses, and college.

Advanced Placement
Prepare for success in college by taking college-level courses while at Thompson School District. Benefits include:

- exposed to the rigor of college-level study
- explore advanced topics in greater depth and detail
- earn college credit while in high school
- build confidence in your capability to succeed in college
- increased likelihood of getting accepted to the college of your choice
- save money; course waivers earned in Advanced Placement will save on tuition
- improve your writing skills and sharpen your problem-solving techniques
- assume responsibility for reasoning, analyzing, and understanding for yourself
- earn up to a semester of college credit for free
- increase likelihood of college admission

<table>
<thead>
<tr>
<th>Art History</th>
<th>English Literature and Composition</th>
<th>Psychology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>Environmental Science</td>
<td>Statistics</td>
</tr>
<tr>
<td>Calculus AB</td>
<td>European History</td>
<td>Studio Art: Drawing</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>Government and Politics Comparative</td>
<td>Studio Art: 2-D Design</td>
</tr>
<tr>
<td>Chemistry</td>
<td>Government and Politics United States</td>
<td>Studio Art: 3-D Design</td>
</tr>
<tr>
<td>Computer Science</td>
<td>Human Geography</td>
<td>U.S. History</td>
</tr>
<tr>
<td>Computer Science Principles</td>
<td>Music Theory</td>
<td>World History</td>
</tr>
<tr>
<td>Economics: Macro</td>
<td>Physics 1 and 2 Algebra Based</td>
<td>World Language French</td>
</tr>
<tr>
<td>Economics: Micro</td>
<td>Physics C: Electricity and Magnetism</td>
<td>World Language German</td>
</tr>
<tr>
<td>English Language and Composition</td>
<td>Physics C: Mechanics</td>
<td>World Language Spanish</td>
</tr>
</tbody>
</table>

For more information on the Advanced Placement Program, please visit www.CollegeBoard.com
Career and Academic Planning
Suggested Activities to Support Quality Decisions for High School

All Grades
- Academic and postsecondary planning with your counselors
- ICAP career and academic plan (including interest pathway electives)
- Naviance online
- Individual Career and Academic planning (ICAP)
- College Preparatory course of study
- Community Service
- Extracurricular activities

Freshman
- PSAT
- Naviance ICAP activities: Career Interest Profiler, Explore Careers, create Plan of Study, develop postsecondary career and academic goals, and add list of career interests.
- ASPIRE
- CMAS
- AP classes (Advanced Placement) tests taken in May each year

Sophomore
- ASPIRE
- PSAT
- SAT II Subject tests
- Naviance ICAP activities: Do What You Are Personality Inventory, update profile, update Plan of Study, update post high school career and academic goals.
- CMAS
- ASVAB (Armed Services Vocational Aptitude Battery) military placement
- AP classes (Advanced Placement) tests taken in May each year

Junior
- PSAT/NMSQT (National Merit Scholarship Qualifying Test) given in fall
- SAT (Scholastic Assessment Test) fall and spring national test dates as state mandated in late April for all juniors
- SAT II Subject tests
- ACT or ACT with Writing (American College Test) fall and spring national test dates as well as state mandated in late April for all juniors
- ASVAB (Armed Services Vocational Aptitude Battery) military placement
- AP classes (Advanced Placement) tests taken in May each year
- High School Career Pathway Program classes at community colleges
- College Concurrent Enrollment classes - at home high school or community college
- Research college/postsecondary options and visit campuses
- Begin application process for appointment to U.S. military academies
- Sign up for NCAA or NAIA Clearinghouses for college athletic participation
- Naviance ICAP activities: begin/complete college search, add colleges to My List, update Profile, update Plan of Study, update post high school career and academic goals, complete junior survey
- Attend Financial Aid evening or postsecondary informational meeting
Career and Academic Planning
Suggested Activities to Support Quality Decisions for High School

Senior
• SAT (Scholastic Assessment Test) fall and spring national test dates
• SAT II Subject tests
• ACT or ACT with Writing (American College Test) fall and spring national test dates
• ASVAB: A multiple-aptitude battery that measures developed abilities and helps predict future academic and occupational success in the military
• AP classes—tests taken in May each year
• High School Program classes at community colleges
• Naviance
• ICAP activities: explore scholarship applications/databases (fastweb.com, College in Colorado), request transcripts and letters of recommendations, develop resume, add colleges to My List, update Profile, update Plan of Study, update career and academic goals, add test scores, complete senior exit survey
• Complete Senior Interview with counselor
• Campus and post high school program visits
• High School Career Pathway Program classes at community colleges
• Attend Financial Aid evening
• Complete financial aid forms (FAFSA) after January 1
• Apply for appointment to U.S. military academies by October
• Write college essay
**Guidelines for College Admissions**

(Information from Colorado Council on High School and College Relations)

These are general guidelines to help you with the college admissions process. Factors such as grade point average, school activities, college entrance test scores and course of study are considered. Please consult your counselor for more details. Specialized schools may have different guidelines; see your counselor for those options or visit the Colorado Admissions Tool ([https://www.coadmissionstool.org/](https://www.coadmissionstool.org/))

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### REQUIREMENTS

<table>
<thead>
<tr>
<th>TEST SCORES</th>
<th>EXAMPLES</th>
</tr>
</thead>
</table>

#### Open Admissions:

- **No Requirements**
- **Suggested for Success**
  - 4 years English
  - 3 years Math
  - 2 years Science
  - 2 years Social Studies

#### Liberal Admissions

- ACT Composite 18-21
- SAT (verbal and math) 870-990

#### Traditional Admissions:

- ACT Composite 20-23
- SAT (verbal and math) 950-1070

#### Selective Admissions*

- ACT Composite 22-27
- SAT (verbal and math) 1030-1220

#### Highly Selective Class Admissions *

- ACT Composite 27-31
- SAT (verbal and math) 1220-1600

*Check with school of choice to determine if writing component is required for ACT and/or SAT

---

In State:

- Colorado Northwestern CC
- Front Range CC
- Aims CC
- Colorado Mountain
- Northeastern Junior College

In State:

- University of Denver
- DeVry University
- College America
- Colorado Technical University

In State:

- Johnson and Wales

Out of State:

- University of Wyoming
- Montana State University

Out of State:

- Arizona State University
- Kansas University

Out of State:

- Stanford University
- Harvard University

---
**Guidelines for College Admissions**

### GPA and Test Score Ranges of Admitted Freshmen - Fall 2017 Data

**Colorado Public Four-Year Colleges and Universities**

The data below reflect the middle 50% ranges of students admitted at each institution - 25% had above and 25% had below these ranges. These are NOT requirements, but a guide to each institution’s standards. Both ACT & SAT are accepted by Colorado public institutions. Please refer to the online College Admission Guidelines tool for more information on admission criteria: [coadmissionstool.org](http://www.coadmissionstool.org)

<table>
<thead>
<tr>
<th>Institution</th>
<th>High School GPA</th>
<th>ACT</th>
<th>SAT*</th>
</tr>
</thead>
<tbody>
<tr>
<td>High School GPA range of admitted students (4.0 scale - includes weighted GPAs)</td>
<td>Mid-50% GPA range of admitted students</td>
<td>Mid-50% ACT range of admitted students (composite scores)</td>
<td>Mid-50% SAT range of admitted students (Evidenced Based Reading &amp; Writing + Math)</td>
</tr>
<tr>
<td>Adams State University</td>
<td>2.70 - 3.60</td>
<td>17  - 22</td>
<td>950 - 1120</td>
</tr>
<tr>
<td>Colorado Mesa University</td>
<td>3.15 - 3.83</td>
<td>20  - 25</td>
<td>1020 - 1200</td>
</tr>
<tr>
<td>Colorado School of Mines</td>
<td>3.71 - 3.98**</td>
<td>29  - 33</td>
<td>1330 - 1460</td>
</tr>
<tr>
<td>Colorado State University Fort Collins</td>
<td>3.33 - 4.00</td>
<td>23  - 29</td>
<td>1120 - 1300</td>
</tr>
<tr>
<td>Colorado State University Global</td>
<td>2.80 - 3.60</td>
<td>18  - 23</td>
<td>980 - 1160</td>
</tr>
<tr>
<td>Colorado State University Pueblo</td>
<td>2.91 - 3.76</td>
<td>18  - 23</td>
<td>950 - 1120</td>
</tr>
<tr>
<td>Fort Lewis College</td>
<td>3.08 - 3.81</td>
<td>20  - 25</td>
<td>1040 - 1190</td>
</tr>
<tr>
<td>Metropolitan State University of Denver</td>
<td>2.59 - 3.42</td>
<td>17  - 22</td>
<td>920 - 1110</td>
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<tr>
<td>University of Colorado Boulder</td>
<td>3.44 - 4.00</td>
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<td>1180 - 1350</td>
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<tr>
<td>University of Colorado Colorado Springs</td>
<td>3.10 - 3.87</td>
<td>20  - 26</td>
<td>1070 - 1250</td>
</tr>
<tr>
<td>University of Colorado Denver</td>
<td>3.23 - 3.93</td>
<td>21  - 27</td>
<td>1070 - 1260</td>
</tr>
<tr>
<td>University of Northern Colorado</td>
<td>3.07 - 3.83</td>
<td>19  - 25</td>
<td>1030 - 1230</td>
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<td>Western State Colorado University</td>
<td>2.95 - 3.75</td>
<td>20  - 25</td>
<td>1025 - 1200</td>
</tr>
</tbody>
</table>

* SAT totals = Evidenced Based Reading & Writing + Math subscores. It does NOT include the Essay or Written Component score.

** Colorado School of Mines does NOT use weighted GPAs in making an admission decision - they use unweighted only.

For additional information including transfer admissions, please visit: highered.colorado.gov/Academics/Admissions/

---

Starting fall 2019, the CCHE Index will no longer be utilized. Instead, institutions will publish their mid-50% admission range for GPA and test scores (ACT and SAT). Go to the Online Admission Standards Tool for more information: [www.coadmissionstool.org](http://www.coadmissionstool.org)
Guidelines for College Admissions

Freshman admission standards apply to students who:
* are applying to go to college right after high school graduation; and/or
* have earned fewer than 24 college level credit hours after high school graduation.

Freshman admission formula illustration and details:

- High School GPA
- Test Scores
- Academic Course Mix and Rigor
- Extracurriculars and other considerations

Colorado public four-year colleges and universities consider the following in making freshman admission decisions:

> High School GPA (if your high school provides a weighted GPA on your transcript, it will be considered in the admission process)
> Test Scores—either SAT or ACT (if taking the SAT, visit the Khan Academy to prep for the exam) - institutions will often consider subject scores too
> Academic course mix and rigor (see below for more information)
> Extracurricular activities and other considerations (includes internships, work, sports, leadership, extenuating circumstances, etc.)

Academic Course Mix and Rigor:

Course rigor can include Concurrent/Dual Enrollment courses, Honors, AP, IB, and more.

Course mix is represented by the Higher Education Admission Recommendations (HEAR): the type and number of high school courses students should successfully complete to demonstrate college readiness - these courses can also be substituted with internships, capstones, and similar in the relevant academic areas:

<table>
<thead>
<tr>
<th>Academic Area</th>
<th>Recommended Number of Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4 Units</td>
</tr>
<tr>
<td>*Mathematics</td>
<td>4 Units</td>
</tr>
<tr>
<td>Natural Science</td>
<td>3 Units (2 Units lab-based)</td>
</tr>
<tr>
<td>Social Science</td>
<td>3 Units (1 Unit U.S. or world history)</td>
</tr>
<tr>
<td>World Language</td>
<td>1 Unit</td>
</tr>
<tr>
<td>Academic Electives</td>
<td>2 Units</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>17 Units</strong></td>
</tr>
</tbody>
</table>

A unit – one year of a high school course. If you are taking a college level course while in high school, one semester = one unit.

*Currently, the HEAR math recommendation is that students should complete up through Algebra 2. However, some college programs require freshman students to be ready for calculus. Some recommend Statistics or Math for Liberal Arts preparation. If you know which program or area of study you wish to pursue in college, contact the admission or academic advising office at the institution you are considering for specific math preparation information.
Career & Technical Education (CTE) Pathways

Colorado Career & Technical Education (CTE) believes that every student should be on a path that leads to career success, through seamless plans of study fostering academic and technical achievement, to develop a globally competitive workforce for Colorado.

Our pathways include plans of study which are a coherent, articulated sequence of career-related courses beginning in the ninth grade and leading to an industry-recognized certificate or licensure, and/or an associate or baccalaureate degree and beyond. This plan provides a “road map” to a student’s career goal. Our pathways highlight secondary to postsecondary linkages allowing for seamless transition to further education. The pages following are yearly course recommendations for students to complete each pathway including post-secondary options available at Thompson School district in partnership with local community colleges and universities.

Our Career & College Readiness Initiatives provide resources and strategies for preparing students with the knowledge, attitude, and skills needed for the 21st century workforce.

Post-secondary Workforce Readiness describes the knowledge, skills, and behaviors essential for high school graduates to be prepared to enter higher education and the workforce, to compete in the global economy, develop consistent intellectual growth throughout their lifespan as a result of rigorous, relevant and intentional course sequencing.

An individualized career and academic plan is both a document and a process that students use with support from school counselors, teachers, and parents to define their career goals and post-secondary plans in order to inform the student’s decisions about their courses and activities throughout school.

Colorado CTE provides a connected, responsive and real education system with seamless transitions from 6th grade through certificate or degree attainment. This system: Integrates industry defined technical and academic skills necessary for career readiness through flexible Plans of Study, building individual career & academic plans (ICAP), facilitating seamless transitions through concurrent enrollment, articulation, and stackable credentials.

For more information please visit our website https://www.thompsonschools.org/CTE
Colorado Career Pathways Cluster Model

For more information visit: http://www.coloradostateplan.com/
Career Pathway: Agricultural Science

Colorado Career Cluster - Agriculture, Food and Natural Resources

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

1st Year
Introduction to Agriculture and Technology

2nd Year
Agriscience
Mechanics

3rd Year
Livestock Production & Food Products and Processing
Plant Systems: Agronomy & Horticulture

*3rd Year High School Select: Postsecondary Credit Options Available through Front Range Community College
AP Biology - 3026 / 3027 – eligible for General College Biology

4th Year
Agriculture Capstone
Executive Internship – Agriculture, Food and Natural Resources

4th Year Career Pathway Program – Scheduled Half Day at College eligible for both high school and college credit (see below)
FRCC Animal Technology and Research

FRCC College Credit from Animal Technology Career Pathway:
Office Procedures and Technology
Vet. Tech. Assistant Restraint and Handling
Veterinary Medical Terminology
Vet. Tech. Assistant Surgical and Nursing Care
Vet Tech. Assistant Lab and Clinical Procedures
Internship: Private Practice

13 college credit hours
VET 120 – 2 college credits
VET 103 – 2 college credits
VET 102 – 1 college credits
VET 113 – 3 college credits
VET 114 – college credits
VET 183 – 1.5 college credits

*Students who successfully enroll in and successfully complete the above college coursework and successfully complete BIO 105 or BIO 111 (see above) through High School Select or Campus Select, can complete the FRCC Veterinary Technician Assistant Certificate.

4th Year Career Pathway Program – Scheduled Half Day at College eligible for both high school and college credit (see below)
FRCC Wildlife, Forestry and Natural Resources

FRCC College Credit from Wildlife/Forestry Career Pathway:
Foundations of Forestry
Forestry Field Research
Wildlife and Fisheries Management Principles
Internship

13 college credit hours
NRE 100 – 3 college credits
NRE 110 – 3 college credits
NRE 205 – 3 college credits
NRE 280 – 1 college credit

*Students who successfully enroll in and successfully complete the above college coursework can complete the FRCC Forestry Certificate
### Career Pathway: Business

**Colorado Career Cluster - Business, Marketing and Public Administration**

#### RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Grade Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td><strong>Intro to Business and Marketing</strong></td>
<td>5018</td>
</tr>
<tr>
<td></td>
<td>Accounting</td>
<td>5014, 5015</td>
</tr>
<tr>
<td></td>
<td>Business Law</td>
<td>5019</td>
</tr>
<tr>
<td></td>
<td>Finance</td>
<td>5020</td>
</tr>
<tr>
<td></td>
<td>Career Development</td>
<td>5022</td>
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<tr>
<td>2nd</td>
<td>Accounting 2</td>
<td>5016</td>
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<tr>
<td></td>
<td>Entrepreneurship 1</td>
<td>5124, 5125</td>
</tr>
<tr>
<td></td>
<td>IB Business and Management</td>
<td>5320, 5321</td>
</tr>
<tr>
<td>3rd</td>
<td>Accounting 3</td>
<td>5017</td>
</tr>
<tr>
<td></td>
<td>Entrepreneurship 2</td>
<td>5124, 5125</td>
</tr>
<tr>
<td></td>
<td>Management</td>
<td>5021</td>
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<tr>
<td>4th</td>
<td>Business Work Experience</td>
<td>5030, 5031, 5032, 5033, 5034, 5035</td>
</tr>
<tr>
<td></td>
<td>Executive Internship - Business, Marketing and Public Administration</td>
<td>5084</td>
</tr>
</tbody>
</table>
**Career Pathway: Marketing**

*Colorado Career Cluster - Business, Marketing and Public Administration*

**RECOMMENDED HIGH SCHOOL COURSE SEQUENCE**

<table>
<thead>
<tr>
<th>Year</th>
<th>Course</th>
<th>Code(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Intro to Business and Marketing</td>
<td>5018</td>
</tr>
<tr>
<td></td>
<td>Sports and Entertainment Marketing</td>
<td>5040</td>
</tr>
<tr>
<td></td>
<td>Web Design</td>
<td>5012</td>
</tr>
<tr>
<td>2nd</td>
<td>Entrepreneurship 1</td>
<td>5124, 5125</td>
</tr>
<tr>
<td></td>
<td>Marketing Research</td>
<td>5041</td>
</tr>
<tr>
<td></td>
<td>Social Media and Advertising</td>
<td>5042</td>
</tr>
<tr>
<td>3rd</td>
<td>Accounting 3</td>
<td>5017</td>
</tr>
<tr>
<td></td>
<td>Entrepreneurship 2</td>
<td>5124, 5125</td>
</tr>
<tr>
<td></td>
<td>IB Business and Management</td>
<td>5320, 5321</td>
</tr>
<tr>
<td>4th</td>
<td>Marketing Work Experience</td>
<td>5050, 5051, 5052, 5053, 5054, 5055</td>
</tr>
<tr>
<td></td>
<td>Executive Internship – Business, Marketing and Public Administration</td>
<td>5084</td>
</tr>
</tbody>
</table>
Career Pathway: Business Information Technology

Colorado Career Cluster - Business, Marketing and Public Administration

Recommended Course Sequence

1st Year
Computer Applications 5002
Computer Graphics Business 1 5004
Multi-Media Technology 5006
Programming Concepts 5026

2nd Year
Computer Applications Advanced 5003
Computer Graphics Business 2 5005
GIS in Business 5122
Web Design 5012
AP Computer Science Principles 5080, 5081

3rd Year
AP Computer Science A 5028, 5029
Computer Graphics Business 3 5076

3rd Year Career Pathway Program – Career Pathway Program scheduled half Day at college eligible. Pathway is eligible for both high school and college credit (see below)
AIMS Loveland Campus Graphic Design
Graphic and Software Applications Certification upon completion of program. Certification counts towards the Graphic Design Associate Degree at AIMS.

AIMS College Credit from Graphic Design Career Pathway: 12 college credit hours
Adobe Photoshop I MGD 111 – 3 college credits
Adobe Photoshop II MGD 211 – 3 college credits
Adobe Illustrator I MGD 112 – 3 college credits
Adobe Illustrator II MGD 212 – 3 college credits

4th Year
Computer Graphics Business 4 5078
Executive Internship – Business, Marketing and Public Information 5084

4th Year Career Pathway Program – Career Pathway Program scheduled half Day at college eligible. Pathway is eligible for both high school and college credit (see below)
AIMS Loveland Campus Animation Career Pathway
CA Animation Certification upon completion of program. Certification counts towards the Animation Associate’s Degree at AIMS.

AIMS College Credit from Animation Career Pathway: 12 college credit hours
Digital Animatics MGD 142 – 3 college credits
2D Animation Production MGD 152 – 3 college credits
Maya I MGD 119 – 3 college credits
Maya II MGD 219 – 3 college credits
**Career Pathway: Industrial Science and Technology**

**Colorado Career Cluster - STEM, Arts, Design and Information Technology**

**RECOMMENDED HIGH SCHOOL CURSE SEQUENCE** – see actual course descriptions for schools offering

### 1st Year

- **AMPED**
- **Basic Shielded Metal Arc 1**
- **Intro to Gas Metal Arc Welding***
- **Invention and Design**
- **Manufacturing 1**
- **Robotics**
- **Safety for Welders***
- **Transportation 1**

### 2nd Year

- **Transportation 2**
- **Manufacturing 2**
- **Robotics Leadership**

### 3rd Year

3rd Year **Career Pathway Program** – Career Pathway Program scheduled half Day at college eligible. Pathway is eligible for both high school and college credit (see below)

- **FRCC Welding and Metal Fabrication**
  - 3.0 high school credits

**FRCC College Credit from Welding and Metal Fabrication Career Pathway:**

- **Safety for Welders**
  - WEL 103 – 4 college credits
- **Allied Cutting Process**
  - WEL 101 – 4 college credits
- **Basic Shielded Metal Arc I**
  - WEL 103 – 4 college credits
- **Intro to Gas Metal Arc Welding**
  - WEL 125 – 4 college credits

*Students who successfully enroll in and successfully complete the above college coursework can complete the FRCC Welding Fundamentals Certificate and the Oxyacetylene Welding Certificate

### 4th Year

- **Executive Internship – STEM, Arts, design and Information Technology**
  - 5085

4th Year **Career Pathway Program** – Career Pathway Program scheduled half Day at college eligible. Pathway is eligible for both high school and college credit (see below)

- **FRCC 2nd Year Welding and Metal Fabrication**
  - 3.0 high school credits

**FRCC College Credit from Career Pathway:**

- **Intro to Gas Tungsten Arc Welding**
  - WEL 124 – 4 college credits
- **Advanced Gas Tungsten Arc Welding**
  - WEL 224 – 4 college credits

*Students who successfully enroll in and successfully complete the above college coursework (including Year 1 coursework) can complete the FRCC Gas Tungsten Arc Welding (TIG) Certificate
# Career Pathway: Architecture and Construction

**Colorado Career Cluster - STEM, Arts, Design and Information Technology**

## Recommended Course Sequence

### 1st Year

**Invention and Design**

8300

**Construction 1***

8310, 8311

### 2nd Year

**Construction 2***

8312

**Geometry in Construction**

2024, 2025, 8314, 8315

**Technical Drawing**

8302, 8303

### Postsecondary Credit Options Available through **High School Select:**

**AIMS Community College**

8310 / 8311 / 8312 - eligible for Carpentry credit

CAR 100, CAR 101, CAR 102 – 3 college credits total

### 3rd Year

**Architectural Drawing**

8304, 8305

**Project Design Team**

8306, 8307

### 4th Year

**Executive Internship – STEM, Arts, design and Information Technology**

5085

### 3rd or 4th Year Option - **Career Pathway Program** scheduled half Day at college eligible. **Pathway is eligible for both high school and college credit (see below)**

**FRCC Architectural, Landscape, And Interior Design W/ Cad Certification**

3.0 high school credits

**FRCC College Credit from Career Pathway:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Print reading for CAD</td>
<td>CAD 100 – 3 college credits</td>
</tr>
<tr>
<td>Computer Aided Drafting</td>
<td>CAD 101 – 3 college credits</td>
</tr>
<tr>
<td>Computer Aided Drafting 2</td>
<td>CAD 102 – 3 college credits</td>
</tr>
<tr>
<td>Landscape Design I</td>
<td>HLT 130 – 3 college credits</td>
</tr>
<tr>
<td>Sketchup</td>
<td>CAD 115 – 3 college credits</td>
</tr>
<tr>
<td>Independent Study</td>
<td>CAD 185 – 1 college credit</td>
</tr>
</tbody>
</table>

*Students who successfully enroll in and successfully complete the above college coursework can complete the FRCC Basic CAD Certificate

**13 college credits**

**11/28/2018**
Career Pathway: Computer and Information Sciences

Colorado Career Cluster - STEM, Arts, Design and Information Technology

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

1st Year
- Intro to Electronics and Programming 5256, 5257
- Programming Concepts 5026
- Robotics 8420, 8421

2nd Year
- Microcomputer Projects 8708, 8709
- Robotics Leadership 8422, 8423
- AP Computer Science Principles 5080, 5081

3rd Year
- AP Computer Science A 5028, 5029

4th Year
- Executive Internship – STEM, Arts, Design and Information Technology 5085

3rd Year Career Pathway Program – Career Pathway Program scheduled half Day at college eligible. Pathway is eligible for both high school and college credit (see below)
- AIMS Loveland Campus Graphic Design

AIMS College Credit from Graphic Design Career Pathway:
- Adobe Photoshop I
- Adobe Photoshop II
- Adobe Illustrator I
- Adobe Illustrator II

Graphic and Software Applications Certification upon completion of program. Certification counts towards the Graphic Design Associate Degree at AIMS.

4th Year Career Pathway Program – Career Pathway Program scheduled half Day at college eligible. Pathway is eligible for both high school and college credit (see below)
- AIMS Loveland Campus Animation

AIMS College Credit from Animation Career Pathway:
- Digital Animatics
- 2D Animation Production
- Maya I
- Maya II

CA Animation Certification upon completion of program. Certification counts towards the Animation Associate’s Degree at AIMS.

Postsecondary Campus Select Credit Options:
FRCC College Credit:
- Networking CNG 124
- A+ certification Program CNG 120
- Network Security fundamentals CNG 132
Career Pathway: Life Skills

Colorado Career Cluster - Hospitality, Human Services and Education

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

1st Year
Teen Challenges and Choices 8000
Nutrition and Wellness 8020

2nd Year
Life Management 8001

3rd Year
Relationships 8002

4th Year
Executive Internship – Hospitality, Human Services and Education 5086
Career Pathway: Education and Training

Hospitality, Human Services and Education

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

1st Year
Child Adolescent Development 8125

2nd Year
Early Childhood Education 101 8012
Early Childhood Education 102 8013

3rd Year
Teacher Cadet 1 8014, 8015

4th Year
Teacher Cadet 2 8016, 8017
Executive Internship – Hospitality, Human Services and Education 5086
Career Pathway: Arts and Visual Design

Colorado Career Cluster - Hospitality, Human Services and Education

Recommended High School Course Sequence

1st Year
- Design Seminar 8142
- Interior Design 1 8008
- Fashion Design / Merchandising 1 8138

2nd Year
- Interior Design 2* 8009
- Fashion Design / Merchandising 2 8140

*Postsecondary Credit Options through High School Select:
FRCC College Credit:
8009 – eligible for Intro to Interior Design
IND 105 – 3 college credits

3rd Year

4th Year
- Executive Internship – Hospitality, Human Services and Education 5086
Career Pathway: Hospitality and Tourism and Education

Colorado Career Cluster - Hospitality, Human Services and Education

Recommended Course Sequence

1st Year
Culinary Careers and Nutrition 8018

2nd Year
Catering 8006, 8007

3rd Year
ProStart 1 8134, 8135
Advanced Catering 8022

4th Year
ProStart 2 8136, 8137
Executive Internship 5082

*Postsecondary Credit Options Available through High School Select:

Metro State Enrollment College Credit:

8134 / 8135 – eligible for Food Fundamentals HTE 1533 – 3 college credits
8136 / 1837 – eligible for Food Preparation and Sanitation HTE 1603 – 3 college credits
Career Pathway: Health Sciences

Colorado Career Cluster - Hospitality, Human Services and Education

RECOMMENDED HIGH SCHOOL COURSE SEQUENCE

1st Year
Intro to Health Sciences 5802, 5803

2nd Year

3rd Year

3rd or 4th Year Pathway Program – Pathway Programs scheduled half day at college, eligible for both high school and college credit
AIMS Medical Prep 3.0 college credits

AIMS College Credit Available for Certificate: 13 college credits
Success Seminary HPR 111 – 1 college credit
Medical Terminology HPR 178 – 3 college credits
Responding to Emergencies HWE 122 – 2 college credits
Nurse Aide Health Care Skills NUA 101 – 4 college credits
Nurse Aide Clinical Rotation NUA 170 – 1 college credits
Health Career Options & Readiness HPR 104 – 1 college credit

Students who successfully complete classes will be eligible for the following certificates: Med Prep Certificate, Intro to Allied Health Certificate, Nurse Aide Certificate, American Heart Association Basic Life Support and First Aid Certificates

3rd or 4th Year Career Pathway Program – Career Pathway Program scheduled half Day at college eligible. Pathway is eligible for both high school and college credit (see below)
FRCC Medical Careers Explorations 3.0 high school credits

FRCC College Credit from Career Pathway: 7 college credits
Medical Record Terminology (Fall) HPR 208 – 2 college credits
Certified Nurse Aide Health Care Skills (Fall) NUA 101 – 4 college credits
Nurse Aide Clinical Experience NUA 170 – 1 college credit

*Students who successfully enroll in and successfully complete the above college coursework can complete the FRCC Nurse Aide Certificate

4th Year
Executive Internship – Hospitality, Human Services and Education 5086
## Career Pathway: Project Lead the Way / Engineering

**Colorado Career Cluster – STEM, Arts, Design and Information Technology**

### HIGH SCHOOL RECOMMENDED COURSE SEQUENCE

#### 1st Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Engineering Design*</td>
<td>8400, 8401</td>
</tr>
<tr>
<td>Principles of Engineering*</td>
<td>8402, 8403</td>
</tr>
</tbody>
</table>

#### Postsecondary Credit Options Available through High School Select:

**University of Colorado at Colorado Springs**

- 8400 / 8401 – eligible for Introduction to Engineering Design
- 8402 / 8403 – eligible for Principles of Engineering

<table>
<thead>
<tr>
<th>Course</th>
<th>College Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 1503 – 2 college credits</td>
<td>8400 / 8401</td>
</tr>
<tr>
<td>ENGR 1502 – 3 college credits</td>
<td>8402 / 8403</td>
</tr>
</tbody>
</table>

#### 2nd Year

- Digital Electronics
- Computer Integrated Manufacturing

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Electronics</td>
<td>8404, 8405</td>
</tr>
<tr>
<td>Computer Integrated Manufacturing</td>
<td>8406, 8407</td>
</tr>
</tbody>
</table>

#### 3rd Year

- Aerospace Engineering
- Engineering Design and Development

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerospace Engineering</td>
<td>8410, 8411</td>
</tr>
<tr>
<td>Engineering Design and Development</td>
<td>8414, 8515</td>
</tr>
</tbody>
</table>

#### 4th Year

- Environmental Sustainability
- Executive Internship – STEM, Arts, Design and Information Technology

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Sustainability</td>
<td>3080, 3081</td>
</tr>
<tr>
<td>Executive Internship</td>
<td>5085</td>
</tr>
</tbody>
</table>
Agricultural Science

Students who take Agricultural courses may join FFA- All grades

AGRICULTURE CAPSTONE
BHS, TVHS
Credit: 1.0 Elective (Classes Prior to 2021)
Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)
Recommended: Intro to Agricultural Science & Technology, Agriscience & one of both of the Advanced Systems Class
Pathway: Agricultural Science – Agriculture, Food and Natural Resources

In Agriculture Capstone, students will:
• explore an agriculture industry of their choosing
• enhance their knowledge of agribusiness fundamentals
• gain the knowledge and skills to be Career and/or College Ready
• become familiar with global agriculture issues and concepts
• be required to participate in a Supervised Agriculture Experience
• develop leadership and employability skills for future careers and endeavors
• have the chance to participate in educational field trips and experiences pertaining to agriculture and FFA on a district, state, and national level

AGRISCIENCE
BHS, TVHS
Credit: .50 Elective (Classes Prior 2021) Semester 1 / .50 Science credit Semester 2
Credit: .50 Career Pathway Elective (Class of 2021-2023) / .50 Science credit Semester 2
Recommended: Intro to Agricultural Science and Technology
Fee: $25 per semester
Pathway: Agricultural Science – Agriculture, Food and Natural Resources

In Agriscience, students will:
• explore the animal science industry
• gain in-depth knowledge in animal nutrition, animal reproduction, embryo transfer, artificial insemination, genetics, feeds formulation, livestock handling, livestock marketing, and record keeping
• be required to have an SAE in place and be keeping record books on it
• build public speaking skills and record keeping abilities through FFA
• explore the industry of Agronomy
• gain knowledge of plant growth and development, germination, soil science, soil structures, home site evaluation, noxious weeds, county crops, irrigation methods, cultivation methods, forage crops, harvesting, seed and plant identification, pesticide use, fertilizer requirements, wildlife habitat, environmental science, government programs to assist farmers, and record keeping

EXECUTIVE INTERNSHIP – AGRICULTURE, FOOD AND NATURAL RESOURCES
BHS, LHS, MVHS, TVHS
Credit: .50 Applied Arts (Classes Prior to 2021)
Credit: .50 Career Pathway Advanced Elective (Class of 2021-2023)
Pathway: Agricultural Science - Agriculture, Food and Natural Resources

In Executive Internship, students will:
• Learn to provide a practical introduction to the work environment through direct contact with professionals in the community. The content should include, but not be limited to, the following: discussion of professional job requirements, awareness and knowledge of career opportunities, building vocabulary apocopate to the area of professional interest, development of decision-making skills, and development of personal and educational job-related skills
Agricultural Science

Students who take Agricultural courses may join FFA- All grades

INTRODUCTION TO AGRICULTURE AND TECHNOLOGY  5968, 5969
BHS, TVHS
Credit: 1.0 Applied Arts (Class of 2018-2020)
Credit: 1.0 Career Pathway Elective (Class of 2021-2023)
Fee: $25 per semester

In Introduction to Agricultural Science and Technology students will:
• explore the 6 Pathways of Agricultural Education
• gain in-depth information about our student-led leadership organization, FFA
• develop leadership and employability skills for future careers and endeavors
• have the chance to participate in educational field trips and experiences pertaining to agriculture and FFA on a district, state, and national level

LIVESTOCK PRODUCTION & FOOD PRODUCTS AND PROCESSING  5894, 5985
BHS, TVHS
Credit: .50 Elective (Classes Prior 2021) Semester 1 / .50 Science credit Semester 2
Credit: .50 Career Pathway Elective (Class of 2021-2023) / .50 Science credit Semester 2
Recommended: Intro to Agricultural Science and Technology
Fee: $25 per semester
Pathway: Agricultural Science – Agriculture, Food and Natural Resources

In Livestock Production and Food Products and Processing students will:
• explore the animal science industry
• gain in-depth knowledge of how to manage each species in their specific industry
• gain in-depth knowledge of how food products are grown and processed
• be required to have an SAE in place and be keeping record books on it
• develop leadership and employability skills for future careers and endeavors
• have the chance to participate in educational field trips and experiences pertaining to agriculture and FFA on a district, state, and national level

MECHANICS  8356, 8357
TVHS (Grades 11, 12)
Credit: 1.0 Applied Arts (Classes Prior to 2021)
Credit: 1.0 Career Pathway Elective (Class of 2021-2023)
Pathway: Agricultural Science – Agriculture, Food and Natural Resources

In Mechanics Students will:
• complete projects and activities that relate to the agricultural industry
• develop knowledge of manufacturing safety, history, trends, research, design, materials, processes, tools and machines
Agricultural Science

Students who take Agricultural courses may join FFA - All grades

PLANT SYSTEMS: AGRONOMY & HORTICULTURE 5986, 5987
BHS, TVHS
Credit: .50 Elective (Classes Prior 2021) Semester 1 / .50 Science credit Semester 2
Credit: .50 Career Pathway Elective (Class of 2021-2023) / .50 Science credit Semester 2
Fee: $25 per semester
Pathway: Agricultural Science – Agriculture, Food and Natural Resources

In Plant Systems: Agronomy & Horticulture students will:
- explore the agronomy and horticulture industries
- gain in-depth information about our student-led leadership organization, FFA
- gain in-depth knowledge of crop production, including the topic areas of greenhouse management; irrigation; soil fertility; integrated pest management; plant propagation techniques; the harvest, handling and storage of crops; plant, seed and pest identification; biotechnology
- apply principles and practices of sustainable agriculture
- develop leadership and employability skills for future careers and endeavors
- have the chance to participate in educational field trips and experiences pertaining to agriculture and FFA on a district, state, and national level
ART EXPLORATION
FHS
Credit: .25 Fine Arts per quarter
Fee: $10 per quarter

In Art Exploration students will:
- be introduced to drawing painting and sculpting as an art form
- be exposed to composition in a variety of media
- be exposed to subject matter such as still life, landscape, and figure studies
- apply appropriate techniques and problem solving to create personal expressions in drawing
- be exposed to art history
- evaluate and critique artwork from selves and others

AP ART HISTORY
MVHS, TVHS
Credit: 1.0 Fine Arts

If student has met the Fine Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Fee: Student pays for textbook

In AP Art History, students will:
- be exposed to social and cultural influences on contemporary and historical artistic expression
- be introduced to the rich traditions of world art through factual knowledge and skillful use of the principles of aesthetics and comparative criticism
- connect the history of art through continuous reference to the context of religion, history, and geography
- prepare for the AP exam

COMMERCIAL ART
FHS
Credit: .25 Fine Arts per quarter
Fee: $10 per quarter

In Commercial Art students will:
- explore basic concepts, techniques and skills that are utilized in all forms of commercial art
- have basic understanding of media literacy, advertising, copyright and ethical considerations and the role that commercial art plays in our consumer oriented society
- apply design principles to create art and be proficient in visual communication and personal expression

COMPUTER GRAPHICS – ART 1
LHS, MVHS, TVHS
BHS (Grades 10, 11, 12)
Credit: .50 Fine Arts
Fee: $15 per semester

FHS
Credit: .25 Fine Arts
Fee: $7.50 per quarter

In Computer Graphics - Art 1, students will:
- explore basic concepts and techniques used in graphic design
- apply design principles to create original graphics
- be proficient in visual communication and personal expression
- use Adobe Photoshop to paint, edit photos and animate
- use Adobe Illustrator to create vector designs
- create a digital portfolio
- focus on media literacy and its implications in our society
- learn about advertising, copyright, and career opportunities
- utilize the Design Cycle to understand the Artistic Process
- evaluate and critique artwork from selves and others
### Art

**COMPUTER GRAPHICS – ART 2**  
LHS, MVHS, TVHS  
Credit: .50 Fine Arts  
*If student has met the Fine Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*  
Recommended: Computer Graphics - Art 1  
Fee: $15 per semester  

*In Computer Graphics - Art 2, students will:*  
- increase and compile their digital portfolio  
- understand the process of completing a product with client input  
- focus on the career aspect of graphic design  
- increase their skill and technical abilities in computer use and software  
- understand the various aspects of art and design  
- discuss ethics and observe copyright laws  
- utilize the Design Cycle to understand the Artistic Process  
- evaluate and critique artwork from selves and others  
- present artwork and teach others how to accomplish more complex tasks in digital programs

**DRAWING 1**  
BHS, FHS, LHS, MVHS, TVHS  
Credit: .50 Fine Arts  
Fee: $20 per semester  

**FHS**  
Credit: .25 Fine Arts  
Fee: $10.00 per quarter  

*In Drawing 1, students will:*  
- be introduced to drawing as an art form  
- be exposed to composition in a variety of drawing media  
- be exposed to subject matter such as still life, landscape, figure studies, and portraiture  
- apply appropriate techniques, problem solving and reflective practices throughout the design process  
- be exposed to art history as it relates to drawing  
- be introduced to observational drawing (life drawing)

**DRAWING 2**  
LHS, MVHS, TVHS  
BHS (Grades 10, 11, 12)  
Credit: .50 Fine Arts  
*If student has met the Fine Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*  
Recommended: Drawing 1  
Fee: $20 per semester  

*In Drawing 2, students will:*  
- develop a drawing portfolio which will show versatility of subject matter and media  
- Complete in-depth and finished drawings  
- read and critique personal expressions in drawing  
- be exposed to the history of drawing by artists, cultures or historical periods  
- emphasis on drawing from observation (life drawing)
### Art

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>METALSMITHING/JEWELRY 1</strong> 6618</td>
<td></td>
<td>MVHS, TVHS</td>
</tr>
<tr>
<td>BHS, LHS (Grades 10, 11, 12)</td>
<td></td>
<td>Credit: .50 Fine Arts</td>
</tr>
<tr>
<td>Fee: $30 per semester</td>
<td></td>
<td></td>
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<tr>
<td>FHS</td>
<td>6618</td>
<td></td>
</tr>
<tr>
<td>Credit: .25 Fine Arts per quarter</td>
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<tr>
<td>Fee: $15 per quarter</td>
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</tbody>
</table>

*In Metalsmithing/Jewelry 1, students will:*
- be introduced to the processes of metalsmithing as an art form
- communicate personal expressions with metal and jewelry techniques
- be exposed to the history of metal in the development of civilization
- evaluate and critique own and others’ art work
- apply appropriate problem-solving abilities to body ornamentation

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>METALSMITHING/JEWELRY 2</strong> 6620</td>
<td></td>
<td>LHS, MVHS, TVHS</td>
</tr>
<tr>
<td>Credit: .50 Fine Arts</td>
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<tr>
<td>If student has met the Fine Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)</td>
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<td></td>
</tr>
<tr>
<td>Recommended: Metalsmithing/Jewelry 1</td>
<td></td>
<td></td>
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<tr>
<td>Fee: $30 per semester</td>
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</tr>
</tbody>
</table>

*In Metalsmithing/Jewelry 2, students will:*
- further develop and refine basic metal skills
- explore a variety of advanced metalsmithing/jewelry techniques including, but not limited to, stone setting and patinas
- communicate personal expressions with metal and jewelry techniques
- evaluate and critique own and others’ art work
- apply appropriate problem-solving abilities to body ornamentation

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PAINTING 1</strong> 6604</td>
<td></td>
<td>BHS, LHS, MVHS, TVHS</td>
</tr>
<tr>
<td>Credit: .50 Fine Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recommended: Drawing 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fee: $20 per semester</td>
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<td></td>
</tr>
<tr>
<td>FHS</td>
<td>6604</td>
<td></td>
</tr>
<tr>
<td>Credit: .25 Fine Arts per quarter</td>
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<tr>
<td>Fee: $10 per quarter</td>
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</tbody>
</table>

*In Painting 1, students will:*
- be introduced to color theory
- be exposed to composition and various painting media
- be exposed to subject matter such as still life, landscape, figure studies, and portraiture
- learn skills in painting techniques, care of tools and types of paint
- apply techniques, problem solving and reflective practices throughout the design process
- evaluate and critique own and others’ art work
- be exposed to art history as it relates to painting
ART

PAINTING 2  6606
LHS, MVHS, TVHS
BHS (Grades 10, 11, 12)
Credit: .50 Fine Arts
*If student has met the Fine Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*
Recommended: Drawing 1 and Painting 1
Fee: $20 per semester

*In Painting 2, students will:*
• develop a series of paintings which show versatility in subject matter and media
• develop a refinement of their painting techniques and problem solving to create personal expressions in painting
• be exposed to art history as it relates to painting
• evaluate and critique own and others’ art work

PHOTOGRAPHY 1  6622
LHS, MVHS
BHS, TVHS (Grades 10, 11, 12)
Credit: .50 Fine Arts
Fee: $40 per semester
FHS  6622
Credit: .25 Fine Arts per quarter
Fee: $20 per quarter

*In Photography 1, students will:*
• learn the basics of still photography, 35 mm SLR cameras, film processing, and printing. As well as DSLR’s (Digital) photo production
• learn about the history of photography
• be able to critique their own and others’ photographs with design and technical considerations
• learn photojournalism, commercial, art photography, action photography and portrait photography
• intro to digital photographic editing

PHOTOGRAPHY 2  6624
LHS, MVHS, TVHS
BHS (Grades 10, 11, 12)
Credit: .50 Fine Arts
*If student has met the Fine Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*
Recommended: Photography 1
(Students will need to have a 35mm single lens reflex (SLR) camera with fully manual capabilities. All schools have a limited number of school cameras for rent.)
Fee: $40 per semester

*In Photography 2, students will:*
• create photographs for public display
• utilize specialized darkroom techniques in black and white photography
• study the work of famous photographers
• evaluate and critique their own and others’ art work
• continued exploration of digital photography (DSLR) and digital photographic editing
### PHOTOGRAPHY 3 6626

LHS, MVHS
Credit: .50 Fine Arts

*If student has met the Fine Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*

Recommended: Photography 1 and Photography 2

(Students will need to have a 35mm single lens reflex (SLR) camera with fully manual capabilities. All schools have a limited number of school cameras for rent.)

Fee: $40 per semester

*In Photography 3, students will:*

- explore/master film and digital techniques on an individualized path

### SCULPTURE/CERAMICS 1 6614

LHS, MVHS, TVHS
BHS (Grades 10, 11, 12)
Credit: .50 Fine Arts
Fee: $20 per semester

FHS 6614
Credit: .25 Fine Arts per quarter
Fee: $10 per quarter

*In Sculpture/Ceramics 1, students will:*

- be introduced to the processes of ceramics and sculpture as art forms
- be introduced to the potter’s wheel
- learn and explore subtractive and additive, relief and assemblage techniques
- be exposed to the history of sculpture and ceramics by artists, cultures, or historical periods
- evaluate and critique own and others’ art work
- utilize the Design Cycle to understand the Artistic Process

### SCULPTURE/CERAMICS 2 6616

LHS, MVHS, TVHS
BHS (Grades 10, 11, 12)
Credit: .50 Fine Arts

*If student has met the Fine Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*

Recommended: Sculpture/Ceramics 1
Fee: $20 per semester

*In Sculpture/Ceramics 2, students will:*

- concentrate on creating sculpture/ceramics for public display which reflect their self-expression and imagination
- explore a variety of advanced sculpture and ceramic techniques
- research the history of sculpture and ceramics by artists, culture, or historical periods
- evaluate and critique own and others’ art work
- utilize the Design Cycle to understand the Artistic Process
Art

AP STUDIO ART DRAWING
6640, 6641
AP STUDIO ART 2-D DESIGN
6642, 6643
AP STUDIO ART 3-D DESIGN
6644, 6645
BHS, LHS, MVHS, TVHS
Credit: 1.0 Fine Arts for each course
If student has met the Fine Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Recommended: Three or more art classes, two should be sequential; written approval of AP Studio instructor
Fee: $35 per semester

In AP Studio Art, students will:
• develop a finished portfolio in Drawing, 2-D design or 3-D design (this can be a photographic focus)
• creatively solve problems in a thematic manner
• develop a breadth portfolio (diversity of work) and a concentrated portfolio (series of work)
• be exposed to the history of art by artists, cultures, or historical periods build critique skills and write an artist statement

VIDEO COMMUNICATION 1
6628, 6629
LHS, TVHS
Credit: 1.0 Fine Arts
If student has met the Fine Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Recommended: Video Production 1 and written permission of the video communication teacher given through letters of recommendation and an interview

In Video Communication 1, students will:
• gather information about events, personalities, or issues related to the school or youth
• prepare and present news broadcasts about the school for the school and community
• work with digital media production, both photographic and video

VIDEO COMMUNICATION 2
6632, 6633
LHS, TVHS
Credit: 1.0 Fine Arts
If student has met the Fine Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Recommended: Video Communication 1 and written permission

In Video Communication 2, students will:
• gather information about events, personalities, or issues related to the school or youth
• prepare and present news broadcasts about the school for the school and community
• expand knowledge of video communication industry and related careers
• expand digital media and communication knowledge
## Art

### VIDEO PRODUCTION 1

<table>
<thead>
<tr>
<th>School</th>
<th>Code</th>
<th>Credit</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHS, MVHS, TVHS</td>
<td>6634</td>
<td>.50 Fine Arts</td>
<td>$30 per semester</td>
</tr>
<tr>
<td>BHS (Grades 10, 11, 12)</td>
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</tbody>
</table>

In Video Production 1, students will:
- create, plan, write, record, edit, and copy video presentations on a wide variety of topics
- use DSLR, and graphics hardware and software to produce creative media packages
- develop technical competency, artistry, and storytelling abilities with digital media
- be introduced to the history of television, video, and film production with discussions on their influence and impact on our culture

### VIDEO PRODUCTION 2

<table>
<thead>
<tr>
<th>School</th>
<th>Code</th>
<th>Credit</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHS, TVHS</td>
<td>6636, 6637</td>
<td>1.0 Fine Arts</td>
<td>$30 per semester</td>
</tr>
</tbody>
</table>

**If student has met the Fine Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)**

Recommended: Video Production 1

### VIDEO PRODUCTION 3

<table>
<thead>
<tr>
<th>School</th>
<th>Code</th>
<th>Credit</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHS, TVHS (Grades 11, 12)</td>
<td>6652, 6635</td>
<td>1.0 Fine Arts</td>
<td>$30 per semester</td>
</tr>
</tbody>
</table>

**If student has met the Fine Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)**

Recommended Video Production 1 and 2 or Instructor approval

### VIDEO PRODUCTION 3

<table>
<thead>
<tr>
<th>School</th>
<th>Code</th>
<th>Credit</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVHS</td>
<td>6636</td>
<td>.50 Fine Arts</td>
<td>$30 per semester</td>
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</tbody>
</table>

**If student has met the Fine Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)**

Recommended: Video Production 1

### VIDEO PRODUCTION 3

<table>
<thead>
<tr>
<th>School</th>
<th>Code</th>
<th>Credit</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVHS</td>
<td>6636</td>
<td>.50 Fine Arts</td>
<td>$30 per semester</td>
</tr>
</tbody>
</table>

**If student has met the Fine Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)**

Recommended: Video Production 1

In Video Production 3, students will:
- Students will be required to produce a certain amount of films during the semester. Each of the films is given parameters the students must meet. They will also participate in filming some school/district events.
### Business

**Students taking Business courses may join Future Business Leaders of America (FBLA)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Schools</th>
<th>Credit Prior to 2021</th>
<th>Credit Class of 2021-2023</th>
<th>Fee per semester</th>
<th>Pathway: Business - Business, Marketing and Public Administration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ACCOUNTING 1</strong></td>
<td>5014, 5015</td>
<td>BHS, LHS, MVHS, TVHS</td>
<td>1.0</td>
<td>1.0</td>
<td>$5</td>
<td>Business, Marketing and Public Administration</td>
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<td></td>
<td>In Accounting 1, students will:</td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>• understand the basic elements and concepts of accounting with emphasis on the procedures used for maintaining journals, ledgers, and other related records</td>
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<td></td>
<td></td>
<td>• prepare accounting reports for sole proprietorships, partnerships, and corporations</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>• use a computerized accounting system</td>
</tr>
<tr>
<td><strong>ACCOUNTING 2</strong></td>
<td>5016</td>
<td>LHS, MVHS, TVHS</td>
<td>.50</td>
<td>.50</td>
<td>$5</td>
<td>Business, Marketing and Public Administration</td>
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<td></td>
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<td></td>
<td>In Accounting 2, students will:</td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>• understand the theory and logic that underlie accounting principles</td>
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<td></td>
<td>• study the accounting cycle for service and merchandising companies, special journals and subsidiary ledgers, internal control principles and practices, notes and interest, inventory systems and costing, plant assists and intangible asset accounting, and depreciation methods and practices</td>
</tr>
<tr>
<td><strong>ACCOUNTING 3</strong></td>
<td>5017</td>
<td>MVHS, TVHS</td>
<td>.50</td>
<td>.50</td>
<td>$5</td>
<td>Business, Marketing and Public Administration</td>
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<tr>
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<td></td>
<td>In Accounting 3, students will:</td>
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<td></td>
<td></td>
<td></td>
<td>• study accounting principles as they apply to partnerships and corporations</td>
</tr>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>• receive instruction in stocks and bonds, investments, cash flow statements, financial analysis, budgeting, and cost and managerial accounting</td>
</tr>
<tr>
<td><strong>BUSINESS LAW</strong></td>
<td>5019</td>
<td>BHS, LHS, MVHS, TVHS</td>
<td>.50</td>
<td>.50</td>
<td>$5</td>
<td>Business, Marketing and Public Administration</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>In Business Law, students will:</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>• cover the foundations of the legal system as it applies to business and personal issues</td>
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<td></td>
<td></td>
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<td></td>
<td>• understand the basic elements of crime and tort law, contracts, ethics and the law, cyber law, property law, and employment law</td>
</tr>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>• participate in case studies and mock trials</td>
</tr>
</tbody>
</table>
Business

Students taking Business courses may join Future Business Leaders of America (FBLA)

### BUSINESS WORK EXPERIENCE

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>- CLASS</strong></td>
<td>5030, 5031</td>
</tr>
<tr>
<td><strong>- INTERNSHIP</strong></td>
<td>5032, 5033, 5034, 5035</td>
</tr>
</tbody>
</table>

BHS, FHS, MVHS, TVHS
LHS (Grade 12)
Credit: 3.0 Applied Arts* (Classes Prior to 2021)
Credit: 3.0 Career Pathway Advanced Elective* (Class of 2021-2023)
Fee: $5 per semester

*2.0 Credit for Internship given for 540 hours of documented work experience
Pathway: Business - Business, Marketing and Public Administration

In Business Work Experience, students will:
- learn new developments, technology, and procedures used in effective office management
- apply decision-making and administrative skills related to their educational program and career objective
- work under the immediate supervision of experienced personnel at the business location and with the direct guidance of the instructor/coordinator

### CAREER DEVELOPMENT

<table>
<thead>
<tr>
<th></th>
<th>5022</th>
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</thead>
<tbody>
<tr>
<td>MVHS</td>
<td></td>
</tr>
<tr>
<td>BHS, LHS, TVHS (Grades 11, 12)</td>
<td></td>
</tr>
<tr>
<td>Credit: .50 Applied Arts (Classes Prior to 2021)</td>
<td></td>
</tr>
<tr>
<td>Credit: .50 Career Pathway Elective (Class of 2021-2023)</td>
<td></td>
</tr>
<tr>
<td>Fee: $5 per semester</td>
<td></td>
</tr>
<tr>
<td>Pathway: Business - Business, Marketing and Public Administration</td>
<td></td>
</tr>
</tbody>
</table>

In Career Development, students will:
- learn how to market themselves to employers
- receive information about financial aid and how to apply for scholarships
- gain employability skills (resumes, interviewing, and professional appearance) and skills for personal success (professional behavior and attitude)
- participate in a simulated interview
- complete an employment portfolio for workforce and/or college

### COMPUTER APPLICATIONS

<table>
<thead>
<tr>
<th></th>
<th>5002</th>
</tr>
</thead>
<tbody>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
<td></td>
</tr>
<tr>
<td>Credit: .50 Applied Arts (Classes Prior to 2021)</td>
<td></td>
</tr>
<tr>
<td>Credit: .50 Career Pathway Elective (Class of 2021-2023)</td>
<td></td>
</tr>
<tr>
<td>Fee: $5 per semester</td>
<td></td>
</tr>
<tr>
<td>Pathway: Business - Business, Marketing and Public Administration</td>
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</tr>
</tbody>
</table>

In Computer Applications, students will:
- learn the Microsoft Office Suite applications including Word, Excel, and PowerPoint
- explore and create documents and projects for a variety of purposes and audiences
## Business

**Students taking Business courses may join Future Business Leaders of America (FBLA)**

### COMPUTER APPLICATIONS – ADVANCED

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Schools</th>
<th>Credit</th>
<th>Fee</th>
<th>Recommended</th>
<th>Pathway</th>
</tr>
</thead>
<tbody>
<tr>
<td>5003</td>
<td><strong>COMPUTER APPLICATIONS – ADVANCED</strong></td>
<td>BHS, LHS, MVHS, TVHS</td>
<td>.50 Career Pathway Advanced Elective</td>
<td>$5 per semester</td>
<td>Computer Applications</td>
<td>Business Information Technology - Business, Marketing and Public Administration</td>
</tr>
</tbody>
</table>

In **Computer Applications - Advanced, students will:**
- explore advanced features of the Microsoft Office Suite applications
- integrate graphic presentation materials including graphs, charts, illustrations, diagrams, and merge functions in Word
- apply calculations, built-in functions, and spreadsheet design in Excel
- emphasize effective communication through computerized presentations in PowerPoint

### COMPUTER GRAPHICS – BUSINESS 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Schools</th>
<th>Credit</th>
<th>Fee</th>
<th>Recommended</th>
<th>Pathway</th>
</tr>
</thead>
<tbody>
<tr>
<td>5004</td>
<td><strong>COMPUTER GRAPHICS – BUSINESS 1</strong></td>
<td>BHS, LHS, MVHS, TVHS</td>
<td>.50 Career Pathway Elective</td>
<td>$15 per semester</td>
<td>Computer Graphics 1</td>
<td>Business Information Technology - Business, Marketing and Public Administration</td>
</tr>
</tbody>
</table>

In **Computer Graphics - Business 1, students will:**
- explore basic concepts used in graphic design with Photoshop, Illustrator, InDesign
- apply design principles to create original graphics
- be proficient in visual communication and personal expression
- focus on media literacy
- learn about advertising, copyright, and career opportunities
- create a project in Photoshop, Illustrator, and InDesign to add to a portfolio

### COMPUTER GRAPHICS – BUSINESS 2

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Schools</th>
<th>Credit</th>
<th>Fee</th>
<th>Recommended</th>
<th>Pathway</th>
</tr>
</thead>
<tbody>
<tr>
<td>5005</td>
<td><strong>COMPUTER GRAPHICS – BUSINESS 2</strong></td>
<td>BHS, LHS, MVHS, TVHS</td>
<td>.50 Career Pathway Advanced Elective</td>
<td>$15 per semester</td>
<td>Computer Graphics 1</td>
<td>Business Information Technology - Business, Marketing and Public Administration</td>
</tr>
</tbody>
</table>

In **Computer Graphics - Business 2, students will:**
- increase and compile their portfolio
- understand the process of completing a product with client input
- focus on the career aspect of graphic design
- increase their skill and technical abilities in computer use and software
- understand the various aspects of art and design
Students taking Business courses may join Future Business Leaders of America (FBLA)

**COMPUTER GRAPHICS - BUSINESS 3 ANIMATION**

- BHS, LHS, MVHS, TVHS (Grades 10, 11, 12)
- Credit: .50 Applied Arts (Classes Prior to 2021)
- Credit: .50 Career Pathway Advanced Elective (Class of 2021-2023)
- Recommended: Computer Graphics 1 and 2
- Fee: $15 per semester
- Pathway: [Business Information Technology](#) - Business, Marketing and Public Administration

In *Computer Graphics - Business 3 Animation, students will*:
- explore basic concepts and techniques used in graphic design
- apply design principles to create original graphics on the computer
- develop knowledge of visual communication and personal expression
- focus on media literacy and its impact on society
- become proficient at Adobe Create Suite 6, Flash and Fireworks and incorporate the use of InDesign, Illustrator, Photoshop, and Unity 3D

**COMPUTER GRAPHICS - BUSINESS 4 ANIMATION**

- BHS, LHS, MVHS, TVHS (Grades 10, 11, 12)
- Credit: .50 Applied Arts (Classes Prior to 2021)
- Credit: .50 Career Pathway Advanced Elective (Class of 2021-2023)
- Recommended: Computer Graphics 1 and 2
- Fee: $15 per semester
- Pathway: [Business Information Technology](#) - Business, Marketing and Public Administration

In *Computer Graphics - Business 4 Animation, students will*:
- explore basic concepts and techniques used in graphic design
- apply design principles to create original graphics on the computer
- develop knowledge of visual communication and personal expression
- focus on media literacy and its impact on society
- become proficient at Adobe Create Suite 6, Flash and Fireworks and incorporate the use of InDesign, Illustrator, Photoshop, and Unity 3D

**AP COMPUTER SCIENCE A**

- BHS
- MVHS, TVHS (Grades 10, 11, 12)
- Credit: 1.0 Applied Arts (Classes Prior to 2021)
- Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)
- Recommended: Completion of Algebra 1 with a C or higher or teacher approval
- Fee: Student pays for Textbook
- Pathway: [Business Information Technology](#) - Business, Marketing and Public Administration
- Pathway: [Computer and Information Sciences](#) - STEM, Arts, Design and Information Technology

In *AP Computer Science A, students will*:
- introduce students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing
- embrace problem solving, hardware, algorithms, and perspectives that help people utilize computers to address real-world problems in contemporary life
- Engage and underscores the importance of communicating solutions appropriately and in ways that are relevant to current societal needs
Students taking Business courses may join Future Business Leaders of America (FBLA)

**AP COMPUTER SCIENCE PRINCIPLES**  
BHS, LHS, MVHS, TVHS  
Credit: 1.0 Applied Arts (Classes Prior to 2021)  
Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)  
Recommended: Completion of Algebra 1 with a C or higher  
Fee: Student pays for textbook  
Pathway: Business Information Technology - Business, Marketing and Public Administration  
Pathway: Computer and Information Sciences - STEM, Arts, Design and Information Technology

*In AP Computer Science Principles, students will:*
- Be introduced to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world
- This rigorous course promotes deep learning of computational thinking skills and engages students in the creative aspects of the field.
- Will cover a broad array of topics normally taught in an Introduction to Computer Science course in College. These topics will include but not limited to: The Internet/Networking, Digital Information, Algorithms/Programming, Data/Privacy and Building Applications.

**ENTREPRENEURSHIP 1**  
BHS, FHS, LHS, MVHS, TVHS  
Credit: 1.0 Applied Arts (Classes Prior to 2021)  
Credit: 1.0 Career Pathway Elective (Class of 2021-2023)  
Recommended: 1 year of business classes and teacher approval  
Fee: $15 per semester  
Pathway: Business and Marketing - Business, Marketing and Public Administration

*In Entrepreneurship 1, students will:*
- develop, test, create, and pitch a business of their own to Loveland community members and potential investors
- work in a team-based environment for the entire year
- teams will learn about marketing, financial analysis, and the legal environment of running a business
- conduct interviews and orally present business concepts
- work with community mentors and coaches in and out of classroom
- give and receive constructive criticism to/from peers
- meet the Capstone/Community service requirement

**ENTREPRENEURSHIP 2**  
BHS, LHS, MVHS, TVHS  
Credit: 1.0 Applied Arts (Classes Prior to 2021)  
Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)  
Recommended: 1 year of business classes and teacher approval  
Fee: $15 per semester  
Pathway: Business and Marketing - Business, Marketing and Public Administration

*In Entrepreneurship 2, students will:*
- continue to develop, test, create, and pitch a business of their own to Loveland community members and potential investors
- continue to work in a team-based environment for the entire year
- teams will continue to learn about marketing, financial analysis, and the legal environment of running a business
- conduct interviews and orally present business concepts
- work with community mentors and coaches in and out of classroom
- give and receive constructive criticism to/from peers
- meet the Capstone/community service requirement
**Business**

**Students taking Business courses may join Future Business Leaders of America (FBLA)**

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Pathway</th>
<th>Credit 1</th>
<th>Credit 2</th>
<th>Fee</th>
<th>Pathways Available</th>
</tr>
</thead>
</table>
| **EXECUTIVE INTERNSHIP – BUSINESS, MARKETING AND PUBLIC ADMINISTRATION** 5084 | BHS, LHS, MVHS, TVHS | .50 Applied Arts (Classes Prior to 2021) | .50 Career Pathway Advanced Elective (Class of 2021-2023) | $5 per semester | Business and Marketing - Business, Marketing and Public Administration  
Business Information Technology - Business, Marketing and Public Administration  
Computer and Information Sciences - STEM, Arts, Design and Information Technology |

*In Executive Internship, students will:*  
- Learn to provide a practical introduction to the work environment through direct contact with professionals in the community. The content should include, but not be limited to, the following: discussion of professional job requirements, awareness and knowledge of career opportunities, building vocabulary appropriate to the area of professional interest, development of decision-making skills, and development of personal and educational job-related skills.

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Pathway</th>
<th>Credit 1</th>
<th>Credit 2</th>
<th>Fee</th>
<th>Pathway</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FINANCE</strong> 5020</td>
<td>BHS, LHS, MVHS, TVHS</td>
<td>.50 Applied Arts (Classes Prior to 2021)</td>
<td>.50 Career Pathway Elective (Class of 2021-2023)</td>
<td>$5 per semester</td>
<td>Business - Business, Marketing and Public Administration</td>
</tr>
</tbody>
</table>

*In Finance, students will:*  
- survey the basic personal financial needs of most individuals  
- emphasize the basics of budgeting and buying, saving and borrowing money, the intricacies of home ownership, income tax and investments, and the wise use of insurance, wills, and trusts  
- play a stock market simulation game and a personal finance simulation

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Pathway</th>
<th>Credit 1</th>
<th>Credit 2</th>
<th>Fee</th>
<th>Pathway</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GLOBAL INFORMATION SYSTEM IN BUSINESS</strong> 5122</td>
<td>BHS</td>
<td>.50 Applied Arts (Classes Prior to 2021)</td>
<td>.50 Career Pathway Elective (Class of 2021-2023)</td>
<td>$5 per semester</td>
<td>Business Information Technology - Business, Marketing and Public Administration</td>
</tr>
</tbody>
</table>

*In Global Information System in Business, students will:*  
- learn how to use ARC GIS web applications to create maps  
- explore multiple applications of the science to everyday real-world problems

<table>
<thead>
<tr>
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<th>Credit 2</th>
<th>Fee</th>
<th>Pathway</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INTRODUCTION TO BUSINESS AND MARKETING</strong> 5018</td>
<td>BHS, FHS, LHS, MVHS, TVHS</td>
<td>.50 Applied Arts (Classes Prior to 2021)</td>
<td>.50 Career Pathway Elective (Class of 2021-2023)</td>
<td>$5 per semester</td>
<td>Business - Business, Marketing and Public Administration</td>
</tr>
</tbody>
</table>

*In Introduction to Business and Marketing, students will:*  
- focus on the operation of the American Business System  
- develop a basic understanding of the fundamentals of the economy, threats and opportunities, marketing management, production, governmental regulations, tools of business, and social responsibilities.
**Business**

**Students taking Business courses may join Future Business Leaders of America (FBLA)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Description</th>
<th>Pathway</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MANAGEMENT</strong></td>
<td>5021</td>
<td>Future Business Leaders of America (FBLA)</td>
<td>Business, Marketing and Public Administration</td>
</tr>
<tr>
<td>FHS, MVHS, TVHS</td>
<td></td>
<td>FHS, LHS (Grades 11, 12)</td>
<td>.50 Applied Arts (Classes Prior to 2021)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>.50 Career Pathway Elective (Class of 2021-2023)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Business - Business, Marketing and Public Administration</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Management Simulation Game</td>
</tr>
</tbody>
</table>

In **Management**, students will:
- survey the principles of management
- study the primary functions of planning, organizing, directing, and controlling with a balance between the behavioral, quantitative, and operational approaches
- play a management simulation game

**MULTIMEDIA TECHNOLOGY**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Pathway</th>
</tr>
</thead>
<tbody>
<tr>
<td>5006</td>
<td>Future Business Leaders of America (FBLA)</td>
<td>Business Information Technology - Business, Marketing and Public Administration</td>
</tr>
<tr>
<td>TVHS</td>
<td>FHS, LHS, MVHS, TVHS</td>
<td>.50 Applied Arts (Classes Prior to 2021)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>.50 Career Pathway Elective (Class of 2021-2023)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fee: $5 per semester</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Business Information Technology - Business, Marketing and Public Administration</td>
</tr>
</tbody>
</table>

In **Multimedia Technology**, students will:
- plan and prepare multimedia business presentations utilizing computer, audiovisual techniques, and proper presentation techniques
- learn to operate digital cameras, video camcorders, and sound equipment and to extract digital recordings
- understand the functions of multimedia software applications and operate these programs on the computer
- examine the principles of visual organization of digital images and motion graphic elements, typography, storyboarding, flow charting and choices of technological options

**PROGRAMMING CONCEPTS**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Pathway</th>
</tr>
</thead>
<tbody>
<tr>
<td>5026</td>
<td>Future Business Leaders of America (FBLA)</td>
<td>Business Information Technology - Business, Marketing and Public Administration</td>
</tr>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
<td>FHS, LHS, MVHS, TVHS</td>
<td>.50 Applied Arts (Classes Prior to 2021)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>.50 Career Pathway Elective (Class of 2021-2023)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fee: $5 per semester</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Computer and Information Sciences - STEM, Arts, Design and Information Technology</td>
</tr>
</tbody>
</table>

In **Programming Concepts**, students will:
- evaluate and discuss career opportunities in computer programming
- develop proficiency in a computer language chosen from a menu of languages
- learn about program structure, syntax, commenting, and programming constructs
- learn about and design an appropriate programming project which includes goals, project milestones, and evaluation standards
- collaborate with other students, mentors, and the instructor to formulate ideas, solve problems, and critique progress.
Students taking Business courses may join Future Business Leaders of America (FBLA)

**WEB DESIGN**

BHS, LHS, MVHS, TVHS  
Credit: .50 Applied Arts (Classes Prior to 2021)  
Credit: .50 Career Pathway Elective (Class of 2021-2023)  
Fee: $5 per semester  
Pathway: Business Information Technology - Business, Marketing and Public Administration  
Pathway: Computer and Information Sciences – STEM, Arts, Design and Information Technology

**In Web Design, students will:**
- learn about technology and software requirements, security issues, electronic payments, and marketing strategies  
- stress the fundamentals of HTML syntax using a text editor to develop interactive web sites  
- explore web-safe colors and graphic editors  
- study web aesthetics and intuitive interface design  
- emphasize file organization and layout
Capstone and Community Service

The following courses will satisfy the graduation requirement for capstone and community service for the class of 2021-2023.

**AGRICULTURE CAPSTONE**  
5982, 5983  
BHS, TVHS  
Credit: 1.0 Elective (Classes Prior to 2021)  
Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)  
Recommended: Intro to Agricultural Science & Technology, Agriscience & one of both of the Advanced Systems Class Pathway: [Agricultural Science](#) – Agriculture, Food and Natural Resources

*In Agriculture Capstone, students will:*  
- explore an agriculture industry of their choosing  
- enhance their knowledge of agribusiness fundamentals  
- gain the knowledge and skills to be Career and/or College Ready  
- become familiar with global agriculture issues and concepts  
- be required to participate in a Supervised Agriculture Experience  
- develop leadership and employability skills for future careers and endeavors  
- have the chance to participate in educational field trips and experiences pertaining to agriculture and FFA on a district, state, and national level

**AP RESEARCH**  
8834, 8835  
TVHS (Grades 11-12)  
Credit: 1.0 Elective (Classes Prior to 2021)  
Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)  
Recommended: Successful completion of the AP Seminar course

*In AP Research, students will:*  
AP Research encourages students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct a year-long research based investigation to address a research question. The course culminates in an academic paper of 4000-5000 words and a presentation with an oral defense.

**AP SEMINAR**  
8832, 8833  
TVHS  
Credit: 1.0 Elective (Classes Prior to 2021)  
Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)

*In AP Seminar, students will:*  
AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research-based 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.
Capstone and Community Service
The following courses will satisfy the graduation requirement for capstone and community service for the class of 2021-2023.

ENTREPRENEURSHIP 1  
5120, 5121
BHS, LHS, MVHS, TVHS
Credit: 1.0 Applied Arts (Classes Prior to 2021)
Credit: 1.0 Career Pathway Elective (Class of 2021-2023)
Recommended: 1 year of business classes and teacher approval
Fee: $15 per semester
Pathway: Business and Marketing - Business, Marketing and Public Administration

In Entrepreneurship 1, students will:
• develop, test, create, and pitch a business of their own to Loveland community members and potential investors
• work in a team-based environment for the entire year
• teams will learn about marketing, financial analysis, and the legal environment of running a business
• conduct interviews and orally present business concepts
• work with community mentors and coaches in and out of classroom
• give and receive constructive criticism to/from peers
• meet the Capstone/Community service requirement

ENTREPRENEURSHIP 2  
5124, 5125
BHS, LHS, MVHS, TVHS
Credit: 1.0 Applied Arts (Classes Prior to 2021)
Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)
Recommended: 1 year of business classes and teacher approval
Fee: $15 per semester
Pathway: Business and Marketing - Business, Marketing and Public Administration

In Entrepreneurship 2, students will:
• continue to develop, test, create, and pitch a business of their own to Loveland community members and potential investors
• continue to work in a team-based environment for the entire year
• teams will continue to learn about marketing, financial analysis, and the legal environment of running a business
• conduct interviews and orally present business concepts
• work with community mentors and coaches in and out of classroom
• give and receive constructive criticism to/from peers
• meet the Capstone/community service requirement

EXECUTIVE INTERNSHIP – AGRICULTURE, FOOD AND NATURAL RESOURCES  
5083
BHS, LHS, MVHS, TVHS
Credit: .50 Applied Arts (Classes Prior to 2021)
Credit: .50 Career Pathway Advanced Elective (Class of 2021-2023)
Pathway: Agricultural Science - Agriculture, Food and Natural Resources

In Executive Internship, students will:
• Learn to provide a practical introduction to the work environment through direct contact with professionals in the community. The content should include, but not be limited to, the following: discussion of professional job requirements, awareness and knowledge of career opportunities, building vocabulary apocopate to the area of professional interest, development of decision-making skills, and development of personal and educational job-related skills
## Capstone and Community Service

The following courses will satisfy the graduation requirement for capstone and community service for the class of 2021-2023.

### EXECUTIVE INTERNSHIP – BUSINESS, MARKETING AND PUBLIC ADMINISTRATION  5084

<table>
<thead>
<tr>
<th>School Code</th>
<th>Course Code</th>
<th>Description</th>
<th>Credit</th>
<th>Pathway</th>
</tr>
</thead>
<tbody>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
<td>5084</td>
<td>Executive Internship – Business, Marketing and Public Administration</td>
<td>.50</td>
<td>Applied Arts (Classes Prior to 2021)</td>
</tr>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
<td>5084</td>
<td>Executive Internship – Business, Marketing and Public Administration</td>
<td>.50</td>
<td>Career Pathway Advanced Elective (Class of 2021-2023)</td>
</tr>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
<td>5084</td>
<td>Executive Internship – Business, Marketing and Public Administration</td>
<td>.50</td>
<td>Pathway: Business Information Technology - Business, Marketing and Public Administration</td>
</tr>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
<td>5084</td>
<td>Executive Internship – Business, Marketing and Public Administration</td>
<td>.50</td>
<td>Pathway: Marketing - Business, Marketing and Public Administration</td>
</tr>
</tbody>
</table>

In *Executive Internship*, students will:
- Learn to provide a practical introduction to the work environment through direct contact with professionals in the community. The content should include, but not be limited to, the following: discussion of professional job requirements, awareness and knowledge of career opportunities, building vocabulary appropriate to the area of professional interest, development of decision-making skills, and development of personal and educational job-related skills.

### EXECUTIVE INTERNSHIP – HOSPITALITY, HUMAN SERVICES AND EDUCATION  5086

<table>
<thead>
<tr>
<th>School Code</th>
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<th>Pathway</th>
</tr>
</thead>
<tbody>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
<td>5086</td>
<td>Executive Internship – Hospitality, Human Services and Education</td>
<td>.50</td>
<td>Applied Arts (Classes Prior to 2021)</td>
</tr>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
<td>5086</td>
<td>Executive Internship – Hospitality, Human Services and Education</td>
<td>.50</td>
<td>Career Pathway Advanced Elective (Class of 2021-2023)</td>
</tr>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
<td>5086</td>
<td>Executive Internship – Hospitality, Human Services and Education</td>
<td>.50</td>
<td>Pathway: Computer and Information Sciences - STEM, Arts, Design and Information Technology</td>
</tr>
</tbody>
</table>

In *Executive Internship*, students will:
- Learn to provide a practical introduction to the work environment through direct contact with professionals in the community. The content should include, but not be limited to, the following: discussion of professional job requirements, awareness and knowledge of career opportunities, building vocabulary appropriate to the area of professional interest, development of decision-making skills, and development of personal and educational job-related skills.

### EXECUTIVE INTERNSHIP – STEM, ARTS, DESIGN AND INFORMATION TECHNOLOGY  5085

<table>
<thead>
<tr>
<th>School Code</th>
<th>Course Code</th>
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<th>Credit</th>
<th>Pathway</th>
</tr>
</thead>
<tbody>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
<td>5085</td>
<td>Executive Internship – STEM, Arts, Design and Information Technology</td>
<td>.50</td>
<td>Applied Arts (Classes Prior to 2021)</td>
</tr>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
<td>5085</td>
<td>Executive Internship – STEM, Arts, Design and Information Technology</td>
<td>.50</td>
<td>Career Pathway Advanced Elective (Class of 2021-2023)</td>
</tr>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
<td>5085</td>
<td>Executive Internship – STEM, Arts, Design and Information Technology</td>
<td>.50</td>
<td>Pathway: Computer and Information Sciences - STEM, Arts, Design and Information Technology</td>
</tr>
</tbody>
</table>

In *Executive Internship*, students will:
- Learn to provide a practical introduction to the work environment through direct contact with professionals in the community. The content should include, but not be limited to, the following: discussion of professional job requirements, awareness and knowledge of career opportunities, building vocabulary appropriate to the area of professional interest, development of decision-making skills, and development of personal and educational job-related skills.

### FINE ARTS CAPSTONE PORTFOLIO  6654

<table>
<thead>
<tr>
<th>School Code</th>
<th>Course Code</th>
<th>Description</th>
<th>Credit</th>
<th>Pathway</th>
</tr>
</thead>
<tbody>
<tr>
<td>6654</td>
<td>TVHS (Grades 11-12)</td>
<td>Fine Arts Capstone Portfolio</td>
<td>.50</td>
<td>Elective (Classes Prior to 2021)</td>
</tr>
<tr>
<td>6654</td>
<td>TVHS (Grades 11-12)</td>
<td>Fine Arts Capstone Portfolio</td>
<td>.50</td>
<td>Career Pathway Advanced Elective (Class of 2021-2023)</td>
</tr>
</tbody>
</table>

Recommended: Completion of at least one advanced fine arts class

In *Fine Arts Capstone Portfolio*, students will:
Junior or senior students on the Fine Arts Pathway who wish to complete a capstone portfolio project. The portfolio project will focus on the student’s interest and/or college and career goals. The capstone project will be designed by the student and the instructor to help the student create a professional portfolio to be submitted to an institute of higher education as a part of consideration for acceptance into a fine arts program. The instructor will serve as a mentor, guiding the student through the design, planning, execution, and evaluation of the portfolio capstone project.
**Capstone and Community Service**

The following courses will satisfy the graduation requirement for capstone and community service for the class of 2021-2023.

**IB MYP PERSONAL PROJECT**
Credit: .50 Elective (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)
*This class may be scheduled to meet outside of the normal school day

In *IB MYP Personal Project*, students will:
- demonstrate the personal abilities and skills required to produce and present an extended piece of work created by the student's own initiative and design
- engage in person inquiry, action and reflection on specific topics and issues
- focus on and demonstrate an understanding of a global context
- reflect on learning and share knowledge, view and opinion

**LISA CAPSTONE**
Grade 12
Credit: .50 Speech (Class 2018-2020)
Credit: .50 Language Arts (Class of 2021-2023)
Recommended: Must be a LISA student

In *LISA Capstone*, students will:
- complete a variety of projects and written assignments asking them to reflect upon their arts-integration learning experiences, identifying who they are as learners and artists, and investigating opportunities for their postsecondary education and careers
- design and deliver a public presentation of learning known as their Capstone Performance

**MARKETING WORK EXPERIENCE**
- INTERNSHIP
LHS, MVHS
TVHS (Grade 12)
Credit: 2.0* Applied Arts (Classes Prior to 2021)
Credit: 2.0* Career Pathway Advanced Elective (Class of 2021-2023)
* 2.0 Credits for Internship given for 540 hours of documented work experience
Fee: $5 per semester
Pathway: Marketing - Business, Marketing and Public Administration

In *Marketing Work Experience* students will:
- develop entrepreneurship planning skills and develop a comprehensive business plan
- study the areas of marketing strategies, profitability, human resource management, financial management and projections, innovations, and loan negotiations
- gain practical work experience related to their career pathway under the supervision of an experienced supervisor and instructor/coordinate
Capstone and Community Service

The following courses will satisfy the graduation requirement for capstone and community service for the class of 2021-2023.

**SERVICE LEARNING**

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>5090</td>
<td>.50 Elective (Classes Prior to 2021)</td>
<td>Business Information Technology - Business, Marketing and Public Administration</td>
</tr>
<tr>
<td>LHS</td>
<td>.50 Career Pathway Advanced Elective (Class of 2021-2023)</td>
<td>Computer and Information Sciences - STEM, Arts, Design and Information Technology</td>
</tr>
<tr>
<td></td>
<td>Pathway: Marketing - Business, Marketing and Public Administration</td>
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</tbody>
</table>

**In Service Learning, students will:**
- explore issues of local and global importance, develop a focused mission statement for the class, then work with classes, school organizations and local non-profits to coordinate service as action in response to these issues.

**STEM SENIOR PROJECT**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Pathway</th>
</tr>
</thead>
<tbody>
<tr>
<td>8654</td>
<td>.50 Elective (Classes Prior to 2021)</td>
<td>Computer and Information Sciences - STEM, Arts, Design and Information Technology</td>
</tr>
<tr>
<td>BHS</td>
<td>.50 Career Pathway Advanced Elective (Class of 2021-2023)</td>
<td></td>
</tr>
</tbody>
</table>

**May be scheduled meet outside of traditional school hours depending on student’s individual schedule**

**In STEM Senior Project students will:**
Students who commit to the STEM Program at Berthoud High School are required to complete an internship with higher education or industry in a STEM area. Topic selection and internship placement, facilitated by a faculty advisor, will occur during a student's junior year. The project or internship will culminate with a presentation to the faculty, administration, and mentors, and credit will be awarded, during student's senior year. The project or internship will have a well-defined purpose related to the STEM field. The project or internship will be waived for STEM students who choose to work toward an Associate of Arts Degree during their junior and senior year. Significant progress toward the A.A. Degree must be completed for the waiver.
Computer and Information Sciences

Students who take Computer and Information Science courses may join Skills USA or Technology Student Association (TSA)

AP COMPUTER SCIENCE A
5028, 5029
BHS (Grades 9-12)
MVHS, TVHS (Grades 10, 11, 12)
Credit: 1.0 Applied Arts (Classes Prior to 2021)
Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)
Recommended: Completion of Algebra 1 with a C or higher or teacher approval
Fee: Student pays for Textbook
Pathway: Business Information Technology - Business, Marketing and Public Administration
Pathway: Computer and Information Sciences - STEM, Arts, Design and Information Technology

In AP Computer Science A, students will:
- introduce students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing
- embrace problem solving, hardware, algorithms, and perspectives that help people utilize computers to address real-world problems in contemporary life
- Engage and underscores the importance of communicating solutions appropriately and in ways that are relevant to current societal needs

AP COMPUTER SCIENCE PRINCIPLES
5080, 5081
BHS, LHS, MVHS, TVHS (Grades 10, 11, 12)
Credit: 1.0 Applied Arts (Classes Prior to 2021)
Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)
Recommended: Completion of Algebra 1 with a C or higher
Fee: Student pays for Textbook
Pathway: Business Information Technology - Business, Marketing and Public Administration
Pathway: Computer and Information Sciences - STEM, Arts, Design and Information Technology

In AP Computer Science Principles, students will:
- Be introduced to the central ideas of computer science, instilling the ideas and practices of computational thinking and inviting students to understand how computing changes the world
- This rigorous course promotes deep learning of computational thinking skills and engages students in the creative aspects of the field.
- Will cover a broad array of topics normally taught in an Introduction to Computer Science course in College. These topics will include but not limited to: The Internet/Networking, Digital Information, Algorithms/Programming, Data/Privacy and Building Applications.

ADVANCED ELECTRONICS AND PROGRAMMING
8708, 8709
LHS, MVHS (Grades 10, 11, 12)
Credit: 1.0 Applied Arts (Classes Prior to 2021)
Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)
Recommended: Introduction to Electronics and Programming or Teacher Recommendation
Fee: $20 per semester
Pathway: Computer and Information Sciences - STEM, Arts, Design and Information Technology

In Advanced Electronics and Programming, students will:
- learn about electrical engineering including “smart” electronic devices and how they work
- learn binary math, electrical engineering concepts, electronic circuits, soldering, and higher level programming concepts
- learn about the Arduino chipset and programming and how you can use these to create wireless communication devices
- design, create, build and test a unique microchip project. Examples include devices that text you, wireless alarm system, games, devices that interact with a website etc.
Computer and Information Sciences

Students who take Computer and Information Science courses may join Skills USA at Loveland High/Thompson Valley or Technology Student Association (TSA) at Mountain View or Robotics at Berthoud High.

EXECUTIVE INTERNSHIP – STEM, ARTS, DESIGN AND INFORMATION TECHNOLOGY 5085
BHS, LHS, MVHS, TVHS
Credit: .50 Applied Arts (Classes Prior to 2021)
Credit: .50 Career Pathway Advanced Elective (Class of 2021-2023)
Pathway: Computer and Information Sciences - STEM, Arts, Design and Information Technology

In Executive Internship, students will:
• Learn to provide a practical introduction to the work environment through direct contact with professionals in the community. The content should include, but not be limited to, the following: discussion of professional job requirements, awareness and knowledge of career opportunities, building vocabulary apocopate to the area of professional interest, development of decision-making skills, and development of personal and educational job-related skills.

INTRODUCTION TO ELECTRONICS AND PROGRAMMING 5256, 5257
LHS, MVHS
Credit: 1.0 Applied Arts (Classes Prior to 2021)
Credit: 1.0 Career Pathway Elective (Class of 2021-2023)
Fee: $20 per semester
Pathway: Computer and Information Sciences - STEM, Arts, Design and Information Technology

In Introduction to Electronics and Programming, students will:
• learn about the basics of digital electronics and circuits
• learn how to apply a programming language to control electronic parts
• work individually to build, program and test small electronic/programming projects
• work in a group to build real world devices including but not limited to a weather station, video game controller, robotic vehicle, toy car speed trap and mini home security system
• create computer based applications in Processing (a Java based language)
• mainly use the Arduino chipset and Arduino programming (a C++ based language) for their class electronic projects
• use the Arduino electronic platform to communicate with Processing applications on the computer. Examples of this are: custom made joysticks, electronic control devices, replications of the Nintendo power glove and other student inspired devices
• design, build and test a final individual project integrating the skills learned in the class.

PROGRAMMING CONCEPTS 5026
BHS, LHS, MVHS, TVHS
Credit: .50 Applied Arts (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)
Fee: $5 per semester
Pathway: Business Information Technology - Business, Marketing and Public Administration
Pathway: Computer and Information Sciences – STEM, Arts, Design and Information Technology

In Programming Concepts, students will:
• evaluate and discuss career opportunities in computer programming
• develop proficiency in a computer language chosen from a menu of languages
• learn about program structure, syntax, commenting, and programming constructs
• learn about and design an appropriate programming project which includes goals, project milestones, and evaluation standards
• collaborate with other students, mentors, and the instructor to formulate ideas, solve problems, and critique progress.
Computer and Information Sciences

Students who take Computer and Information Science courses may join Skills USA at Loveland High/Thompson Valley or Technology Student Association (TSA) at Mountain View or Robotics at Berthoud High

**INTRODUCTION TO ROBOTICS**

LHS 8420, 8421
Credit: 1.0 Applied Arts (Classes Prior to 2021)
Credit: 1.0 Career Pathway Elective (Class of 2021-2023)
Fee: $20 per semester
Pathway: Industrial Science and Technology - STEM, Arts, Design and Information Technology
Pathway: Computer and Information Sciences - STEM, Arts, Design and Information Technology

BHS 8420
Credit: .50 Applied Arts (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)
Fee: $20 per semester
Pathway: Industrial Science and Technology - STEM, Arts, Design and Information Technology
Pathway: Computer and Information Sciences - STEM, Arts, Design and Information Technology

In *Introduction to Robotics*, students will:
- understand fundamental computer programming concepts
- employ the engineering design cycle through inquiry
- understand basic physics and physical science concepts
- use programming concepts related to robotics
- engage in teamwork and collaboration
- participate in robotics competitions
- learn about the robotics industry

Project-based curriculum teaches the design process in an engaging, hands-on manner to help teachers challenge, motivate and inspire their students. By moving students through an actual engineering project, students quickly understand the relevance of what they are learning. The curriculum is created to ensure that students with varying learning styles and levels can accomplish the lesson goals. No prior robotics experience, required; beginners are able to advance sequentially through the units to gradually increase their knowledge and skill level.

**ADVANCED ROBOTICS**

LHS 8436, 8437
Credit: 1.0 Applied Arts (Classes Prior to 2021)
Credit: 1.0 Career Pathway Elective (Class of 2021-2023)
Fee: $20 per semester
Pathway: Industrial Science and Technology - STEM, Arts, Design and Information Technology
Pathway: Computer and Information Sciences - STEM, Arts, Design and Information Technology

In *Advanced Robotics*, students will:
- will pick one area of focus: mechanical/build, design, programming or electrical to learn more in depth skills to help support the overall team
- work with the other sub teams to build and design advanced mechanisms for the robot
- employ the engineering design cycle through inquiry and iteration
- engage in teamwork and collaboration
- participate in the FIRST Robotics competition in the spring
- participate in the fundraising and promotion of team during outside school hours
- learn about advanced topics in robotics and stem fields via guest speakers and field trips

Project-based curriculum teaches the design process in an engaging, hands-on manner to help teachers challenge, motivate and inspire their students. By moving students through an actual engineering project, students quickly understand the relevance of what they are learning. The curriculum is created to ensure that students with varying learning styles and levels can accomplish the lesson goals.
**Computer and Information Sciences**

Students who take Computer and Information Science courses may join Skills USA at Loveland High/Thompson Valley or Technology Student Association (TSA) at Mountain View or Robotics at Berthoud High.

**ROBOTICS LEADERSHIP**

LHS 8422, 8423

Credit: 1.0 Applied Arts (Classes Prior to 2021)
Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)
Fee: $20 per semester
Prerequisites: Instructor approval and have 1-year experience on the team
Pathway: [Industrial Science and Technology](#) - STEM, Arts, Design and Information Technology
Pathway: [Computer and Information Sciences](#) - STEM, Arts, Design and Information Technology

In Robotics Leadership, students will:

- participate in the regular robotics class as student leaders and cover all the requirements in that course
- lead, train and mentor a small group of peers as the Design, Build, Programming, Electronics or Fundraising/Marketing Captains. Students will have to apply, interview and be hired for these positions
- attend weekly leadership meeting to create goals, plan the sub-team teaching sessions and discuss team dynamics
- attend special events outside of school hours as a representative of the Robotics team
- be taught different leadership skills throughout the year
- be able to be selected as the Main Team Captains who help organize and run the team with the instructor
# Electives - Aides

<table>
<thead>
<tr>
<th>AIDE – ATTENDANCE</th>
<th>8644, 8645</th>
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<tbody>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
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<tr>
<td>Credit: .25 Elective per semester (Classes Prior to 2021)</td>
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<tr>
<td>Credit: .25 Career Pathway Elective (Class of 2021-2023)</td>
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<thead>
<tr>
<th>AIDE – BUILDING</th>
<th>8640, 8641</th>
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<tr>
<td>BHS, LHS, MVHS, TVHS</td>
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<tr>
<th>AIDE – GUIDANCE</th>
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<td>Credit: .25 Career Pathway Elective (Class of 2021-2023)</td>
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<tr>
<td>Recommended: Recommendation and approval from a counselor and interview</td>
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</table>

As an Aide - Guidance, students will:
- run passes and assist office staff
- file
- help maintain materials in the Futures/Career Center

<table>
<thead>
<tr>
<th>AIDE – MEDIA</th>
<th>8638, 8639</th>
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<tbody>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
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<tr>
<td>Credit: .25 Elective per semester (Classes Prior to 2021)</td>
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<tr>
<td>Credit: .25 Career Pathway Elective per semester (Class of 2021-2023)</td>
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<tr>
<td>Recommended: Teacher Librarian approval</td>
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</tbody>
</table>

As an Aide - Media students will:
- help insure that the necessary individualized services to students and faculty are provided
- deliver and retrieve equipment and materials when necessary
- gain an understanding of the organization and services of the media center
- manage the library circulation desk

<table>
<thead>
<tr>
<th>AIDE – OFFICE</th>
<th>8642, 8643</th>
</tr>
</thead>
<tbody>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
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<tr>
<td>Credit: .25 Elective per semester (Classes Prior to 2021)</td>
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<tr>
<td>Credit: .25 Career Pathway Elective (Class of 2021-2023)</td>
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<table>
<thead>
<tr>
<th>AIDE – TEACHER</th>
<th>8648, 8649</th>
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<tbody>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
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<td>Credit: .25 Elective per semester (Classes Prior to 2021)</td>
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<tr>
<td>Credit: .25 Career Pathway Elective (Class of 2021-2023)</td>
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</tbody>
</table>
## Electives – English Language Arts

### ACTING TECHNIQUES 1124

**BHS, MVHS, TVHS**  
Credit: .50 Elective (Classes Prior to 2021)  
Credit: .50 Career Pathway Elective (Class of 2021-2023)

*In Acting Techniques, students will:*  
- demonstrate an understanding of the fundamentals of theatre  
- develop improvisation, characterization, and performance skills  
- create original scripts with characters, conflicts, and resolutions  
- respond critically to classmates' performances

### ACTING TECHNIQUES ADVANCED 1125

**LHS, MVHS, TVHS**  
Credit: .50 Elective (Classes Prior to 2021)  
Credit: .50 Career Pathway Elective (Class of 2021-2023)  
Recommended: Acting Techniques

*In Acting Techniques Advanced, students will:*  
- enhance skills of creativity, performance, and critically responding that were introduced in Acting Techniques  
- discuss, analyze, and demonstrate the techniques of an actor  
- analyze play scripts and characters  
- develop specific skills that will prepare them for postsecondary theatre opportunities

### ARGUMENTATION/DEBATE 1122

**BHS, MVHS, TVHS**  
Credit: .50 Elective (Classes Prior to 2021)  
Credit: .50 Career Pathway Elective (Class of 2021-2023)  
Recommended: Speech

*In Argumentation/Debate, students will:*  
- understand the fundamentals of argumentation and debate  
- deliver an extemporaneous speech  
- demonstrate the ability to construct affirmative and negative cases and plans  
- participate in debates  
- demonstrate the ability to keep a flow chart

### BIBLE LITERATURE 1107

**MVHS, TVHS**  
Credit: .50 Elective (Classes Prior to 2021)  
Credit: .50 Career Pathway Elective (Class of 2021-2023)

*In Bible Literature, students will:*  
- analyze the literature of the Bible  
- demonstrate a knowledge of the many genres of biblical literature (poetry, history, epistles, apocalyptic literature, wisdom)
**Electives – English Language Arts**

**COLLEGE READING AND THINKING**
MVHS, TVHS
Credit: .50 Elective (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)

*In College Reading and Thinking students will:*
- apply study skills
- prepare for the ACT and SAT
- understand informational logic and nature/application of critical reading skills
- write a variety of essays
- read various books and articles, including American, European and ethnic novels
- learn reading strategies

**CREATIVE WRITING**
MVHS, TVHS
BHS (Grades 11, 12)
Credit: .50 Elective (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)

*In Creative Writing, students will:*
- write original prose and/or poetry
- design one or more creative writing projects
- write, revise and participate in peer review workshops to improve writing
- understand and employ various creative writing techniques such as: plot construction, character development, point of view, etc.

**JOURNALISM 1**
BHS, MVHS, TVHS
Credit: .50 Elective (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)

*In Journalism 1, students will:*
- demonstrate the ability to write for newspapers, magazines, and the yearbook
- demonstrate the ability to design and layout pages for various publications
- research the Internet for on-line publications

**JOURNALISM 2**
BHS, LHS, MVHS, TVHS
Credit: 1.0 Elective (Classes Prior to 2021)
Credit: 1.0 Career Pathway Elective (Class of 2021-2023)
Recommended: Application and interview, Journalism 1, Basic Photography, and Commercial Art

*In Journalism 2, students will:*
- understand a variety of issues related to publishing a newspaper
- collect information systematically for responsible coverage
- demonstrate a knowledge of the publication of an open forum student newspaper
Electives – English Language Arts

**MYTHOLOGY AND SCIENCE FICTION** 1110
MVHS, TVHS
Credit: .50 Elective (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)

*In Mythology and Science Fiction, students will:*
- demonstrate an understanding of gods, heroes, and characters of classical mythology
- demonstrate an understanding of comparative mythology
- demonstrate an understanding of science fiction
- demonstrate an understanding of folklore

**THEATRE PRODUCTION** 8612
MVHS, TVHS
Credit: .50 Elective (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)

*In Theatre Production, students will:*
- study facets of behind-the-scenes theatrical productions including: theatre jobs/roles, directing/producing, production concepts, script analysis, sound/light, and sets

**WOMEN AND THEIR LITERATURE** 1112
TVHS
Credit: .50 Elective (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)

*In Women and Their Literature, students will:*
- read and study novels, poetry, essays, plays, and short stories by and about women
- evaluate women’s roles in American and foreign movies and public media
- read and interpret fairy tales, children’s stories or folktales from a variety of cultures
- identify an author or issue of personal interest or research

**WRITE LIFE** 1144, 1145
TVHS
Credit: 1.0 Elective (Classes Prior to 2021)
Credit: 1.0 Career Pathway Elective (Class of 2021-2023)

*In Write Life, students will:*
- work as a community of writers in a project-based learning model
- experiment with a variety of techniques in several writing genres
- contribute to various publications and writing contests
- read and critique the work of established authors
- read and critique the work of their peers
- produce the school’s literary magazine
- practice and use advanced creative writing skills, editorial skills, and positive work habits in this writing-intensive course
YEARBOOK

BHS, LHS, MVHS, TVHS
Credit: 1.0 Elective (Classes Prior to 2021)
Credit: 1.0 Career Pathway Elective (Class of 2021-2023)
Recommended: Instructor approval, application and interview

In Yearbook, students will:
• publish the student yearbook
• apply for the following positions: editor, section editor, page designer, reporter, advertiser, illustrator, photographer, and others
• work outside the course period and the school day
• learn computer operating systems and related software
BERTHOUD LEADERSHIP ACADEMY 9: TEEN CHALLENGES & CHOICES
Credit: .50 Elective (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)

In Berthoud Leadership Academy 9: Teen Challenges and Choices, students will:
- Learn about how personal choices affect well-being, relationships, and an individual’s future.
- Explore the challenges that young adults face including personal growth, communication, relationships, substance abuse, suicide prevention and sexual health

By simultaneously exploring these topics and their own particular strengths, abilities, ambitions and dreams students learn not only how this knowledge can help them plan for the future, but to make a difference right now. Students focus on public speaking, presentation skills and success in all academic and interpersonal areas.
### ELECTIVES – INDUSTRIAL SCIENCE AND TECHNOLOGY

#### COMPUTER MAINTENANCE INDEPENDENT STUDY

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</table>
| 8634, 8635 | MVHS, TVHS  
Credit: .50 Elective each semester (Classes Prior to 2021)  
Credit: .50 Career Pathway Elective each semester (Class of 2021-2023)  
Recommended: Written permission from the teacher |

In *Computer Maintenance/Independent Study*, students will:
- receive training in the support of computer hardware and peripherals, hardware setup and troubleshooting, printer support, and basic networking topology
- develop skills for logon procedures, software tutoring, Generation Why training, and Web Page development
- identify a personal technology goal; examples include Web Page authoring, programming, and Microsoft certifications

#### INTRODUCTION TO ARC GLOBAL INFORMATION SYSTEM

<table>
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<tr>
<th>Code</th>
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</table>
| 4104, 4105 | BHS  
Credit: 1.0 Elective (Classes Prior to 2021)  
Credit: 1.0 Career Pathway Elective (Class of 2021-2023)  
Recommended: Must be in 10th grade STEM |

In *Introduction to ARC Global Information System*, students will:
- develop spatial understanding, perspectives, and personal connections to the world
- examine places and regions and patterns among them
- complete individual and group projects using GIS software
- introduce students to basic coding
**Electives - JROTC**

**JROTC - LEVEL 1**

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<th>Code</th>
<th>BHS, LHS, MVHS, TVHS</th>
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<td><strong>8618, 8619</strong></td>
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Credit: .50 Fitness* Semester 1 and .50 Social Studies (Civics Requirement) Semester 2

*Semester 1 if a student has met their Fitness requirement the course will count towards elective

*Semester 2 if the student has already met their civics requirement the course will count towards elective

Fee: $25 per semester

**In JROTC 1, students will:**

- participate in Leadership Education and Training (LET) I consisting of effective communication techniques, Presidential Physical Fitness Program, basic leadership skills, self-awareness skills, emotional intelligence, study skills, Weapons safety and basic marksmanship skills, goal setting, drug abuse prevention, basic nutrition, citizenship through history, drill and ceremonies, community service and US Civics topics.

**JROTC - LEVEL 2**

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<th>Code</th>
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Credit: 1.0 Elective (Classes Prior to 2021)

Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)

Recommended: JROTC - Level 1

Fee: $25 per semester

**In JROTC 2, students will:**

- participate in Leadership Education and Training (LET) II consisting of principles of leadership, physical fitness, leadership positions, emergency first aid, CPR hygiene, drug abuse prevention, career opportunities, technology awareness, topographical map reading, orienteering, Weapons safety and basic marksmanship skills, state and world geography and basic formal presentation skills.

**JROTC - LEVEL 3**

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<th>Code</th>
<th>BHS, LHS, MVHS, TVHS</th>
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<td><strong>8624, 8625</strong></td>
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Credit: 1.0 Elective (Classes Prior to 2021)

Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)

Recommended: JROTC - Level 2

Fee: $25 per semester

**In JROTC 3, students will:**

- participate in Leadership Education and Training (LET) III consisting of service learning projects, military history, decision making, leadership position evaluation, career exploration and development, post-secondary education opportunities, physical fitness, human relations, orienteering, Cultural and Global Awareness, Weapons safety and basic marksmanship skills, NEFE High school financial planning

**JROTC – LEVEL 4**

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<th>Code</th>
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<td><strong>8626, 8627</strong></td>
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</table>

- All JROTC LET IV seniors will attend this class at LHS

Credit: 1.0 Elective (Classes Prior to 2021)

Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)

Recommended: JROTC - Level 3

Fee: $25 per semester

*College credit may be available

**In JROTC 4, students will:**

- participate in Leadership Education and Training (LET) IV consisting of developing practical leadership and event planning skills while serving in a leadership or support staff position, physical fitness, career and college planning, formal interview skills, learning to instruct classes, NEFE High school financial planning
Electives - JROTC

JROTC – MARKSMANSHIP
BHS, LHS, MVHS, TVHS
Credit: .50 Elective (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)

Recommended:
- Instructor Approval
- Must score 100 percent on Rifle Marksmanship Safety Examination and have completed at least 1 semester of JROTC and be concurrently enrolled in a JROTC course commensurate with their grade level.
- Must wear uniform and participate in JROTC activities and successfully complete required academic assignments and athletic events (e.g. the cadet challenge and physical fitness exercises to include pushups, pull-ups, sit-ups, and the 1 mile run).
- Must have and maintain an overall cumulative GPA of 2.0

In JROTC Marksmanship, students will:
Be provided with the opportunity to practice leadership, effective communication, organization and problem solving skills and techniques as they form trained competitive marksmanship teams. Marksmanship is a complex sport skill that is concerned with the precision and accuracy of aiming, controlling and firing rifles at difficult targets. A high degree of muscle-nervous system coordinator must be developed through practice. The JROTC Rifle Marksmanship program offers cadets the opportunity to compete in city, state, nation and international marksmanship competitions. The JROTC Marksmanship Program trains cadets to shoot the 3-position air rifle protocols system developed from the International Shooting Sports Federation (ISSF) and Olympic rifle events (air rifle standing, 3-position small-bore).
Students are required to compete in shoulder-to-shoulder and postal rifle matches; maintain a JROTC portfolio; keep a shooters bible (log: and participate in a research project per semester on safety/marksmanship and give an oral presentation on their project. Army, Navy and Marine Corps JROTC units in accordance with service relations offer rifle marksmanship. All rifle marksmanship activity in Army JROTC units is done with 4.5 mm (.177 caliber) single shot target air rifles. All range firing activities are conducted on 10 meters (33 feet) long indoor or outdoor ranges. Cadets who participate in rifle marksmanship are trained to fire in three standard firing positons. Cadets who participate in competitions usually compete in “three-position air rifle” competitions. Opportunities for advanced marksmanship camps and trainings are available for cadets interested in enhancing their skills.
Electives – Physical Education

AQUATICS 7603
LHS, MVHS, TVHS
Credit: .50 Elective (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)

In Aquatics, students will:

• learn five basic swimming strokes, practice water safety and survival skills, improve their aquatic fitness, and participate in recreational activities

AEROBICS AND DANCE 7614
LHS, MVHS, TVHS
Credit: .50 Elective (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)

In Aerobics and Dance, students will:

• enhance physical performance, health, and appearance through cardiovascular endurance training
• be able to calculate target heart rate, and keep it in a healthy zone
• be exposed to low/high impact aerobics, step, power balls, circuit training, etc.
• design their own routines set to music
• understand the importance of proper nutrition

ATHLETIC TRAINING 7616
MVHS
Credit: .50 Elective (Classes Prior to 2021)
Credit: .50 Career Pathway Advanced Elective (Class of 2021-2023)
Recommended: First Aid and Anatomy and Physiology recommended
Fee: $25 per semester
*participate in a "lab" component that occurs outside the scheduled class

In Athletic Training, students will:

• review basic anatomy, kinesiology, and exercise physiology
• demonstrate assessment and management skill of common athletic injuries
• study healthy nutrition concepts

ATHLETIC WEIGHTS 7615
BHS, LHS, MVHS, TVHS
Credit: .50 Elective (Classes Prior to 2021)
Credit: .50 Career Pathway Advanced Elective (Class of 2021-2023)
Recommended: Men’s or Women’s Weights and/or instructor approval (at BHS Instructor signature required)

In Athletic Weights, students will:

• know and understand the rules, techniques, and safety expectations of the weight room
• perform an individualized lifting program that is sport specific and is designed by the head coaches of various sports
• demonstrate and understand the concepts of plyometric training through participation
• demonstrate responsible behavior in all activities
# Electives – Physical Education

<table>
<thead>
<tr>
<th>Elective</th>
<th>Code</th>
<th>Schools</th>
<th>Credit Prior to 2021</th>
<th>Credit 2021-2023</th>
<th>Recommended</th>
<th>Fee</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST AID</strong></td>
<td>7605</td>
<td>LHS, MVHS, TVHS</td>
<td>.50 Elective</td>
<td>.50 Elective</td>
<td>15 by last day of class</td>
<td>Set by Red Cross – approximately $35</td>
<td>American Red Cross certification possible</td>
</tr>
<tr>
<td><strong>FIT FOR LIFE</strong></td>
<td>7623</td>
<td>TVHS</td>
<td>.50 Elective</td>
<td>.50 Elective</td>
<td></td>
<td></td>
<td>Create a very individualized personal wellness plan</td>
</tr>
<tr>
<td><strong>LIFEGUARDING</strong></td>
<td>7604</td>
<td>LHS, MVHS, TVHS</td>
<td>.50 Elective</td>
<td>.50 Advanced Elective</td>
<td>500-yard swim, retrieve 10-pound brick from 10-foot depth, 15 by last day of class</td>
<td>Set by Red Cross - approximately $65</td>
<td>Meet the American Red Cross Lifeguard Training requirements</td>
</tr>
<tr>
<td><strong>LIFETIME SPORTS</strong></td>
<td>7613</td>
<td>BHS, LHS, MVHS, TVHS</td>
<td>.50 Elective</td>
<td>.50 Elective</td>
<td></td>
<td>$15 per semester plus $5 trip fee</td>
<td>Become proficiently skilled at individual lifetime activities; golf, tennis, badminton, pickle ball, table tennis, shuffleboard, Frisbee golf, etc.</td>
</tr>
</tbody>
</table>

In First Aid, students will:
- American Red Cross certification possible
- Have the opportunity to learn the skills necessary to be an effective "first responder"
- Have the opportunity to be certified in Basic Cardiac Resuscitation/child and adult
- Gain the knowledge to assess and treat common injuries, illnesses, and conditions

In Fit for Life, students will:
- Create a very individualized personal wellness plan
- Use technology to support and teach components of health-related fitness
- Research topics such as consumerism and financial literacy as they relate to fitness
- Participate in daily activities such as journaling, stretching, yoga, and fun innovative workouts
- Become myth busters on sports skills

In Lifeguarding, students will:
- Meet the American Red Cross Lifeguard Training requirements
- Develop cardiovascular conditioning, strength training and stroke proficiency, rescue techniques, lifeguarding, CPR and First Aid, professionalism and employability

In Lifetime Sports, students will:
- Become proficiently skilled at the individual lifetime activities; golf, tennis, badminton, pickle ball, table tennis, shuffleboard, Frisbee golf, etc.
- Know and understand the rules, techniques, and safety expectations of the activities
- Participate in individual lifetime wellness activities
- Demonstrate an understanding of fitness concepts by participating in warm-up and cool-down activities
**Electives – Physical Education**

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Description</th>
<th>Credit Prior to 2021</th>
<th>Credit 2021-2023</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NET SPORTS</strong></td>
<td>7612</td>
<td>BHS, LHS, MVHS, TVHS</td>
<td>.50 Elective</td>
<td>.50 Career Pathway Elective</td>
</tr>
<tr>
<td></td>
<td></td>
<td>In Net Sports, students will:&lt;br&gt;• be proficiently skilled in net games; tennis, volleyball, badminton, pickle ball, table tennis, etc.&lt;br&gt;• know and understand the rules, techniques, and safety expectations of the activities&lt;br&gt;• demonstrate an understanding of fitness components of participating in warm-up and cool-down activities&lt;br&gt;• participate in lifetime activities</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SELF-DEFENSE</strong></td>
<td>7602</td>
<td>TVHS, LHS&lt;br&gt;LHS Females Only (Grades 10, 11, 12)</td>
<td>.50 Elective</td>
<td>.50 Career Pathway Elective</td>
</tr>
<tr>
<td></td>
<td></td>
<td>In Self-Defense, students will:&lt;br&gt;• acquire techniques in avoiding potentially hazardous situations and respond appropriately when under personal attack&lt;br&gt;• NOT learn aggressive violence or offensive attack methods&lt;br&gt;• learn basic common sense techniques on how to avoid or defensively escape from violent personal attacks&lt;br&gt;• gain confidence in themselves and have a greater sense of self-reliance</td>
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<td></td>
</tr>
<tr>
<td><strong>TEAM SPORTS</strong></td>
<td>7610</td>
<td>BHS, LHS, MVHS, TVHS</td>
<td>.50 Elective</td>
<td>.50 Career Pathway Elective</td>
</tr>
<tr>
<td></td>
<td></td>
<td>In Team Sports, students will:&lt;br&gt;• become proficiently skilled in team games; team handball, soccer, softball, indoor hockey, touch football, volleyball, basketball, ultimate Frisbee, etc.&lt;br&gt;• know and understand the rules, techniques, and safety expectations of the activities&lt;br&gt;• participate in lifetime team activities&lt;br&gt;• demonstrate an understanding of fitness concepts by participating in warm-up and cool-down activities</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>WEIGHT TRAINING 2</strong></td>
<td></td>
<td>BHS, MVHS, TVHS, LHS&lt;br&gt;LHS (Grades 10, 11, 12)</td>
<td>.50 Elective</td>
<td>.50 Career Pathway Advanced Elective</td>
</tr>
<tr>
<td>- Men’s Weight Training 2</td>
<td>7607</td>
<td>Recommended: Weight Training 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Women’s Weight Training 2</td>
<td>7609</td>
<td>In Weight Training 2, students will:&lt;br&gt;• lifetime fitness concepts including the principles of Overload, Progression, and Specificity</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Electives – Social Studies**

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**CONTEMPORARY ISSUES**

BHS, TVHS  
LHS (Grades 11, 12)  
Credit: .50 Elective (Classes Prior to 2021)  
Credit: .50 Career Pathway Elective (Class of 2021-2023)

*In Contemporary Issues, students will:*
- analyze, investigate, and engage in discussions on contemporary issues that affect the world and the U.S.
- examine the cause/effect relationships and their impact upon these events
- bank develop life skills that will be applicable in the real world; research, reading, writing, and communication skills

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**CRIMINAL JUSTICE PROGRAM**

- Introduction to Criminal Justice System  
- Policing Systems  
- Judicial Function  
- Correctional Process

TVHS  
Credit: 1.0 Elective (Classes Prior to 2021)  
Credit: 1.0 Career Pathway Elective (Class of 2021-2023)

*College credit may be available*

*In the Criminal Justice program, students will:*
- introduce a study of the agencies and processes involved in the criminal justice system: legislature, police, the prosecutor, public defender, courts, and corrections. Includes an analysis of the roles and problems of the criminal justice system in a democratic society, with an emphasis upon inter-component
- examine the complexity and multidimensional aspects of the law enforcement role and career, law enforcement discretion, law enforcement values, and culture in modern America. Covers the role and functions of law enforcement in occupational, social, political, and organizational context
- examine the criminal process with an analysis of the major judicial decision makers; prosecutors, defense attorneys, judges, and the discretionary aspects of adjudication
- focus on the post-conviction corrections process, the development of correctional philosophy, theory, and practice, a description of institutional operation, programming and management, and community-based corrections, probation, and parole

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**PHILANTHROPY AS CIVIC ENGAGEMENT**

BHS  
Credit: .50 Elective (Classes Prior to 2021)  
Credit: .50 Career Pathway Elective (Class of 2021-2023)

*In Philanthropy as Civic Engagement, students will:*
- learn in depth about the concept of philanthropy and how it relates to civic participation
- learn about issues that impact their peers and community
- develop research, public speaking, critical thinking and teamwork skills
- explore nonprofits in the community which aim to address issues important to students
- contribute their talents, insight, and energy to their school and community while developing skills and a passion for giving into adulthood.
- experience the responsibility of being a good steward of philanthropic resources
- develop an advanced understanding of the impact that one makes when dedicating their time, talent, or treasure to an issue which they desire to change or improve
**PSYCHOLOGY 1**

4080

BHS, LHS, MVHS, TVHS

LHS (Grades 10, 11, 12)

Credit: .50 Elective

Credit: .50 Career Pathway Elective (Class of 2021-2023)

*In Psychology 1, students will:*

- gain an understanding of the basic mental processes that control our living
- acquire a better understanding of their own behavior and that of other persons
- study how people learn, personality development, personality theories, how the mind works
- become acquainted with ways mental health may be maintained

**AP PSYCHOLOGY**

4082, 4083

BHS, LHS, MVHS, TVHS

Credit: 1.0 Elective (2018-2020)

Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)

Fee: Student pays for textbook

*In AP Psychology, students will:*

- cover rigorous topics including: methods and approaches, biological basics of behavior, sensation and perception, states of consciousness, learning, cognition, motivation and emotion, developmental psychology, personality testing and individual differences, abnormal psychology, treatment of psychological disorders, social psychology
- be prepared for psychology in college
- have the opportunity to prepare for the AP Psychology test and receive college credit

**PSYCHOLOGY 2**

4081

MVHS, TVHS

Credit: .50 Elective (Classes Prior to 2021)

Credit: .50 Career Pathway Elective (Class of 2021-2023)

Recommended: Psychology 1

*In Psychology 2, students will:*

- continue the exploration of Psychology
- evaluate subject-specific topics: personality theory, stress and conflict, psychological disorders, types of psychotherapy, and social psychology (social influences, relationships, attitudes, and beliefs)

**SOCIOLOGY**

4084

BHS, LHS, MVHS, TVHS

Grades (LHS: 11, 12)

Credit: .50 Elective (Classes Prior to 2021)

Credit: .50 Career Pathway Elective (Class of 2021-2023)

*In Sociology, students will:*

- develop an understanding of human relations
- study human relations, group dynamics, environmental influences, social functions as a group and as a person
- develop a better understanding of yourself and your values
**WESTERN CIVILIZATION 1**

BHS
Credit: .50 Elective (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)
Recommended: Junior or Senior
Fee: Student pays for textbook

*College credit may be available*

In *Western Civilization 1*, students will:
- study the development of European history from its beginnings to 1500 CE
- analyze historical events and processes from this era
- discuss different historical interpretations of events
- create and research historical questions about early European history
**Electives – Student Leadership**

**AVID (Advancement via Individual Determination)**  
TVHS  
Credit: 1.0 Elective (Classes Prior to 2021)  
Credit: 1.0 Career Pathway Elective (Class of 2021-2023)  
Application Process required visit [https://www.thompsonschools.org/Page/17233](https://www.thompsonschools.org/Page/17233)

In **AVID**, students will:  
- obtain the skills necessary for success in college such as: note taking, test preparation, organization, study skills, writing, inquiry, reading, SAT preparation  
- receive tutoring twice a week from local university (in class)  
- receive the AVID college readiness system which prepares students to be fully college ready by the time they graduate, and get support in applying for college and financial aid

**ELEMENTARY TUTOR**  
BHS, LHS, MVHS  
Credit: .50 Elective per semester (Classes Prior to 2021)  
Credit: .50 Career Pathway Elective (Class of 2021-2023)  
Recommended: Attendance review, application, and interview

In **Elementary Tutor**, students will:  
- work outside school assisting elementary school students and teachers  
- have their own transportation, a positive manner, a nearly perfect attendance record, an acceptable scholastic average, and teaching as a possible future career goal  
- supply the coordinator with three letters of recommendation and application

**PEER BUDDIES**  
BHS, LHS, MVHS  
TVHS (Grades 10, 11, 12)  
Credit: .50 Elective (Classes Prior to 2021)  
Credit: .50 Career Pathway Elective (Class of 2021-2023)  
Recommended: Instructor approval required

In **Peer Buddies**, students will:  
- demonstrate how to work well with teachers and other students in the classroom, model effective organizational skills, study skills for their peer buddy, and assist with note taking, reading, and clarifying directions for their peer buddy  
- help the student they are assigned in developing good social and academic habits so they are successful in the classroom and provide support to the classroom teacher by helping to identify and meet the needs of their peer buddy based on his/her goals

**PEER PARTNERS**  
BHS, LHS  
Credit: 1.0 Elective (Classes Prior to 2021)  
Credit: 1.0 Career Pathway Elective (Class of 2021-2023)  
Recommended: Counselor approval required

In **Peer Partners**, students will:  
- learn how to help other students effectively  
- go through special training in how to be a good listener, how to communicate with others effectively, and how to help others make decisions  
- help all students with school-related problems, with conflict resolution, and minor personal/family difficulties with Discover and CAP plans
**SOCIAL EMOTIONAL EDUCATION** 8814
TVHS
Credit: .50 Elective (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)

*In Social Emotional Education, students will:*
Society is quickly changing. Skills in technology are embedded in everything we do and learn. However, as we are progressing technologically, it seems our social and emotional management skills are suffering. In this class, students will learn and practice skills in healthy communication, motivation, conflict resolution, and overall emotional management. Assignments will include application of these skills to relationships with parents and guardians, teachers, siblings, friends, and employers. Students will develop the self-awareness and emotional stability to thrive in high school and beyond.

**STUDENT COUNCIL** 8614, 8615
BHS, LHS, TVHS
Credit: 1.0 Elective (Classes Prior to 2021)
Credit: 1.0 Career Pathway Elective (Class of 2021-2023)
Recommended: Elected and/or appointed

*In Student Council, students will:*
- learn and practice all areas of leadership
- become skilled in the art of leadership
- work as a team to create positive change and exciting activities for school
- spend hundreds of hours outside of the normal school day working on Council activities

**STUDENT LEADERSHIP** 8700, 8701
BHS, LHS, MVHS, TVHS
Credit: .25 Elective for the year (Classes Prior to 2021)
Credit: .25 Career Pathway Elective (Class of 2021-2023)

*In Student Leadership, students will:*
- provide participants with the opportunity to meet current district leaders and represent a student voice to connect with district departments, high schools and to the greater Loveland community
- complete a few tasks focused on building leadership knowledge and improving skills
- keep record of activities by creating a personal student leadership portfolio
- student applicants for SLC must be aware that attendance and active participation is mandatory
- applicants must have the support and commitment of their High School and administration (the signature of student’s administrator is necessary for the application to be considered by the Advisory Committee)
- attend one monthly session each month, as well as one District Accountability Committee (DAC) meeting

**TEEN COURT** 8698, 8699
BHS, FHS, LHS, MVHS, TVHS
Credit: Community Service credit or .25 Elective total (Classes Prior to 2021)
Credit: Community Service credit or .25 Career Pathway Elective total (Class of 2021-2023)

Sessions are held on Tuesday's at 3:30 at the Municipal Courthouse 810 E. 10th Street Loveland, CO 80537. Students must provide their own transportation to and from each session. For more information visit our website at [https://lovelandteencourt.wixsite.com/lovelandteencourt](https://lovelandteencourt.wixsite.com/lovelandteencourt)

*In Teen Court, students will:*
The Thompson School District, in partnership with the City of Loveland, provides student volunteers an opportunity to review low-level juvenile cases and render sentencing (usually in the form of community service and future Teen Court sessions) as a means of steering young offenders toward more productive choices. Students will work alongside the City Prosecutor's office, the municipal court judge and other TSD advisors learning how to assume the roles of a prosecutor, defense attorney, court clerk, judge, and jury member. The Loveland Teen Court Program hears 45-50 juvenile cases per school year.
<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COLLEGE COMPOSITION 1</strong></td>
<td>1103</td>
<td>BHS, LHS, MVHS, TVHS&lt;br&gt;TVHS (Grade 12)&lt;br&gt;Credit:.50 Language Arts&lt;br&gt;&lt;br&gt;<strong>If student has met the Language Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)</strong>&lt;br&gt;Recommended: English 11&lt;br&gt;* College credit may be available&lt;br&gt;&lt;br&gt;<strong>In College Composition 1, students will:</strong>&lt;br&gt;• plan, write, and revise a minimum of three essays to include the evaluative, problem-solving, argumentative modes&lt;br&gt;• think critically and logically&lt;br&gt;• demonstrate appropriate language skills</td>
</tr>
<tr>
<td><strong>COLLEGE COMPOSITION 2</strong></td>
<td>1104</td>
<td>BHS, MVHS, TVHS&lt;br&gt;TVHS (Grade 12)&lt;br&gt;Credit:.50 Language Arts&lt;br&gt;Recommended: College Composition 1&lt;br&gt;* College credit may be available&lt;br&gt;&lt;br&gt;<strong>In College Composition 2, students will:</strong>&lt;br&gt;• read, write, and think critically to evaluate, analyze, and synthesize information&lt;br&gt;• write analytical, evaluative, and/or persuasive papers that incorporate research&lt;br&gt;• apply writing, speaking, and technology to a project presentation</td>
</tr>
<tr>
<td><strong>ELA LANGUAGE A: CREATIVE WRITING</strong></td>
<td>1622</td>
<td>LHS (Grade 9, 10)&lt;br&gt;Credit:.50 Language Arts&lt;br&gt;&lt;br&gt;<strong>In ELA Language A: Creative Writing students will:</strong>&lt;br&gt;• have the opportunity to master the language performance indicators for all 9/10th graders while pursuing the students’ interest in creating writing.</td>
</tr>
<tr>
<td><strong>ELA LANGUAGE A: THE GRAPHIC NOVEL</strong></td>
<td>1616</td>
<td>LHS (Grade 9, 10)&lt;br&gt;Credit:.50 Language Arts&lt;br&gt;&lt;br&gt;<strong>In ELA Language A: The Graphic Novel students will:</strong>&lt;br&gt;• have the opportunity to master the language art performance indicators required for all 9/10th graders while pursuing student interest in graphic novels.</td>
</tr>
<tr>
<td><strong>ELA LANGUAGE A: HONORS</strong></td>
<td>1620</td>
<td>LHS Grade 9, 10&lt;br&gt;Credit:.50 Language Arts&lt;br&gt;&lt;br&gt;<strong>In ELA Language A: Honors students will:</strong>&lt;br&gt;• have the opportunity to meet ½ of the reading and writing performance indicators for all 9/10th graders while pursuing the students’ interest in academic writing and SAT prep.</td>
</tr>
</tbody>
</table>
### English Language Arts

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>LHS Grade</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1624</td>
<td>ELA LANGUAGE A: THE LANGUAGE OF JOURNALISM</td>
<td>9, 10</td>
<td>.50 Language Arts</td>
</tr>
</tbody>
</table>

**In ELA Language A: The Language of Journalism students will:**
- have the opportunity to master the language performance indicators for all 9/10th graders while exploring their interest in the field of journalism.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>LHS Grade</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1618</td>
<td>ELA LANGUAGE A: THEATRE SCREEN AND SCRIPT STUDY</td>
<td>9, 10</td>
<td>.50 Language Arts</td>
</tr>
</tbody>
</table>

**In ELA Language A: Theatre Screen and Script Study students will:**
- have the opportunity to master the language art performance indicators required for all 9/10th graders while pursuing student interest in plays and scripts.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>LHS Grade</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1602</td>
<td>ELA RW A: CREATIVE WRITING</td>
<td>9, 10</td>
<td>.50 Language Arts</td>
</tr>
</tbody>
</table>

**In ELA Reading/Writing A: Creative Writing students will:**
- have the opportunity to meet ½ of the reading and writing performance indicators for all 9/10th graders through the lens of storytelling and narrative technique.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>LHS Grade</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1610</td>
<td>ELA RW A: HONORS</td>
<td>9, 10</td>
<td>.50 Language Arts</td>
</tr>
</tbody>
</table>

**In ELA Reading/Writeing A: Honors students will:**
- have the opportunity to meet ½ of the reading and writing performance indicators for all 9/10th graders while serving as a logical precursor for AP, College Comp, and IB Diploma Programme courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>LHS Grade</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1604</td>
<td>ELA RW A: JOURNALISM</td>
<td>9, 10</td>
<td>.50 Language Arts</td>
</tr>
</tbody>
</table>

**In ELA Reading/Writeing A: Journalism students will:**
- have the opportunity to meet ½ of the reading and writing performance indicators for all 9/10th graders while allowing them to explore their interest in the field of journalism.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>LHS Grade</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1606</td>
<td>ELA RW A: LITERACY</td>
<td>9, 10</td>
<td>.50 Language Arts</td>
</tr>
</tbody>
</table>

**In ELA Reading/Writeing A: Literacy students will:**
- have the opportunity to meet ½ of the reading and writing performance indicators for all 9/10th graders through a survey of American and World literary classics.

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>LHS Grade</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1608</td>
<td>ELA RW A: MYTHOLOGY AND SCIENCE FICTION</td>
<td>9, 10</td>
<td>.50 Language Arts</td>
</tr>
</tbody>
</table>

**In ELA Reading/Writeing A: Mythology and Science Fiction students will:**
- have the opportunity to meet ½ of the reading and writing performance indicators for all 9/10th graders while developing basic understanding of world mythology.
**English Language Arts**

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ELA SL A: PUBLIC SPEAKING</strong></td>
<td>E1614</td>
</tr>
<tr>
<td>LHS Grade 9, 10</td>
<td></td>
</tr>
<tr>
<td>Credit: .50 Language Arts</td>
<td></td>
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</tbody>
</table>

*In ELA Speaking/Listening A: Public Speaking students will:*

- have the opportunity to meet ½ of the speaking and listening performance indicators for all 9/10th graders through a general survey of communication skills.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ELA SL A: THEATRE</strong></td>
<td>E1612</td>
</tr>
<tr>
<td>LHS Grade 9, 10</td>
<td></td>
</tr>
<tr>
<td>Credit: .50 Language Arts</td>
<td></td>
</tr>
</tbody>
</table>

*In ELA Speaking/Listening A: Theatre students will:*

- have the opportunity to meet ½ of the speaking and listening performance indicators for all 9/10th graders while pursuing interest in the theatre and theatrical opportunities.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ELA RW B: CREATIVE WRITING</strong></td>
<td>E1702</td>
</tr>
<tr>
<td>LHS Grade 9, 10</td>
<td></td>
</tr>
<tr>
<td>Credit: .50 Language Arts</td>
<td></td>
</tr>
</tbody>
</table>

*In ELA Reading/Writing B: Creative Writing students will:*

- have the opportunity to meet ½ of the reading and writing performance indicators for all 9/10th graders through the lens of storytelling and narrative technique.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ELA RW B: HONORS</strong></td>
<td>E1710</td>
</tr>
<tr>
<td>LHS Grade 9, 10</td>
<td></td>
</tr>
<tr>
<td>Credit: .50 Language Arts</td>
<td></td>
</tr>
</tbody>
</table>

*In ELA Reading/Writing B: Honors students will:*

- have the opportunity to meet ½ of the reading and writing performance indicators for all 9/10th graders while serving as a logical precursor for AP, College Comp, and IB Diploma Programme courses.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ELA RW B: JOURNALISM</strong></td>
<td>E1706</td>
</tr>
<tr>
<td>LHS Grade 9, 10</td>
<td></td>
</tr>
<tr>
<td>Credit: .50 Language Arts</td>
<td></td>
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</tbody>
</table>

*In ELA Reading/Writing B: Journalism students will:*

- have the opportunity to meet ½ of the reading and writing performance indicators for all 9/10th graders while allowing them to explore their interest in the field of journalism.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ELA RW B: LITERACY</strong></td>
<td>E1708</td>
</tr>
<tr>
<td>LHS Grade 9, 10</td>
<td></td>
</tr>
<tr>
<td>Credit: .50 Language Arts</td>
<td></td>
</tr>
</tbody>
</table>

*In ELA Reading/Writing B: Literacy students will:*

- have the opportunity to meet ½ of the reading and writing performance indicators for all 9/10th graders through a survey of American and World literary classics.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ELA RW B: SCIENCE FICTION AND FANTASY</strong></td>
<td>E1704</td>
</tr>
<tr>
<td>LHS Grade 9, 10</td>
<td></td>
</tr>
<tr>
<td>Credit: .50 Language Arts</td>
<td></td>
</tr>
</tbody>
</table>

*In ELA Reading/Writing B: Science Fiction and Fantasy students will:*

- This course allows students to meet the remaining 9th/10th grade reading and writing performance indicators through an exploration of science fiction and fantasy texts. This class will study the importance and purpose that these genres hold in our contemporary world.
### English Language Arts

<table>
<thead>
<tr>
<th>Subject</th>
<th>Code</th>
<th>Grades</th>
<th>Credit</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ELA SL D: 21st CENTURY SPEAKING SKILLS</strong></td>
<td>1908</td>
<td>LHS Grades 11, 12</td>
<td>.50 Language Arts</td>
<td>In <em>ELA Speaking/Listening D: Public Speaking</em> students will: • have the opportunity to meet the speaking and listening performance indicators for all 11/12th graders through a college-level survey of communication skills.</td>
</tr>
<tr>
<td><strong>ELA SL D: COLLEGE PUBLIC SPEAKING</strong></td>
<td>1906</td>
<td>LHS Grades 11, 12</td>
<td>.50 Language Arts <em>College credit may be available</em></td>
<td>In <em>ELA Speaking/Listening D: College Public Speaking</em> students will: • Have the opportunity to meet the speaking and listening performance indicators for all 11/12th graders through a college-level survey of communication skills required of the 21st century citizen.</td>
</tr>
<tr>
<td><strong>ELA SL D: THEATRE</strong></td>
<td>1910</td>
<td>LHS Grades 11, 12</td>
<td>.50 Language Arts</td>
<td>In <em>ELA Speaking/Listening D: Theatre</em> students will: • This class is designed to provide students with the opportunity to master the 11th/12th grade speaking and listening skills needed to graduate. Students will participate in a variety of theatrical experiences. The class will study the audition process, monologue creation, direction, critical play reviews, and the many roles of theatre production.</td>
</tr>
<tr>
<td><strong>ELA D: CREATIVE WRITING</strong></td>
<td>1902</td>
<td>LHS Grades 11, 12</td>
<td>.50 Language Arts</td>
<td>In <em>ELA D: Creative Writing</em> students will: • have the opportunity to meet the competencies / performance indicators of a 12th grade ELA class through the lens of creative writing.</td>
</tr>
<tr>
<td><strong>ELA D: MYTHOLOGY AND SCIENCE FICTION</strong></td>
<td>1904</td>
<td>LHS Grades 11, 12</td>
<td>.50 Language Arts</td>
<td>In <em>ELA D: Creative Writing</em> students will: • have the opportunity to meet the competencies / performance indicators of a 12th grade ELA class through the lens of creative writing.</td>
</tr>
<tr>
<td><strong>ENGLISH 9</strong></td>
<td>1000, 1001</td>
<td>BHS, FHS, MVHS, TVHS</td>
<td>1.0 Language Arts</td>
<td>In <em>English 9</em>, students will: • learn and identify language skills, use correct mechanics, and study vocabulary • read, respond, and apply thinking skills to novels, short stories, nonfiction, poetry, and a Shakespeare play • write, using the writing process, through argumentative, informative and narrative short response and essays • present a problem/solution or cause/effect presentation</td>
</tr>
<tr>
<td><strong>ENGLISH 9 PRE AP</strong></td>
<td>1004, 1005</td>
<td>BHS, MVHS, TVHS</td>
<td>1.0 Language Arts</td>
<td>In <em>English 9 Pre AP</em>, students will:</td>
</tr>
</tbody>
</table>
• learn the same skills as in English 9, but at a more advanced and rigorous level. Per the AP Central College Board’s website, “Pre-AP is based on the following two important premises. The first is the expectation that all students can perform well at rigorous academic levels. The second important premise of Pre-AP is the belief that we can prepare every student for higher intellectual engagement by starting the development of skills and acquisition of knowledge as early as possible” ([apcentral.collegeboard.com](http://apcentral.collegeboard.com))

### ENGLISH 10

<table>
<thead>
<tr>
<th>BHS, FHS, MVHS, TVHS</th>
<th>1020, 1021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit: 1.0 Language Arts</td>
<td></td>
</tr>
</tbody>
</table>

**In English 10, students will:**

• understand and use parts of speech and punctuation mechanics correctly, understand the function of language
• study and apply vocabulary
• read, respond and apply thinking skills to novels, short stories, nonfiction, poetry, and multimedia texts, including how multiple texts comment on a similar concept
• learn conceptual strategies for approaching a variety of texts
• write short and extended responses in argumentation, literary analysis, informational, and narrative forms

### ENGLISH 10 PRE AP

<table>
<thead>
<tr>
<th>BHS, MVHS, TVHS</th>
<th>1024, 1025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit: 1.0 Language Arts</td>
<td></td>
</tr>
</tbody>
</table>

**In English 10 Pre AP, students will:**

• write a rhetorical analysis
• read more complex texts
• study and apply ACT based vocabulary
• emphasize non-fiction reading and analysis in preparation for AP Language and Composition

### ENGLISH 11

<table>
<thead>
<tr>
<th>BHS, FHS, MVHS, TVHS</th>
<th>1040, 1041</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHS (Grades 11-12)</td>
<td></td>
</tr>
<tr>
<td>Credit: 1.0 Language Arts</td>
<td></td>
</tr>
</tbody>
</table>

**In English 11, students will:**

• apply language skills, correct mechanics and vocabulary
• read, respond and apply thinking skills to novels, short stories, nonfiction, poetry, dramas, and multimedia texts
• write rhetorical analysis, arguments, narratives, short responses, and a research-based synthesis paper

### ENGLISH 11 AND MODERN AMERICA INTEGRATED

- English 11 Integrated  
  TVHS  
  Credit: 1.0 Language Arts and 1.0 Social Studies

**In English 11 Integrated and Modern America Integrated, students will:**

• read, respond, and apply thinking skills to novels, short stories, nonfiction, poetry, and multimedia as they relate to authors’ purposes complementing American history, geography, and diverse culture
• exceed the eleventh grade English requirements
ENGLISH 12
FHS, MVHS, TVHS
LHS (Grade 12)
Credit: .50 Language Arts

ENGLISH 12
BHS
Credit: .50 Language Arts

In English 12, students will:
• read complex texts that require use of literary and interpretive analysis, and evaluative strategies
• interpret and evaluate complex informational texts that require the understanding of rhetoric, critical reading, and analysis skills
• articulate a position through a sophisticated claim or thesis statement and advance it using evidence, examples, and counterarguments in writing
• deliberately manipulate the conventions of standard English for stylistic effect appropriate to the needs of a particular audience and purposes
• conduct independent research, articulate and defend information, conclusions, and solutions that address specific contexts and purposes

AP ENGLISH LANGUAGE AND COMPOSITION
BHS, LHS, MVHS, TVHS Grades (11, 12)
Credit:  1.0 Language Arts
If student has met the Language Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Fee:  Student pays for textbook

In AP English Language and Composition, students will:
• read a variety of expository writings, i.e. essays, memoirs, nonfiction books
• analyze rhetoric, and the effectiveness of stylistic elements such as diction, syntax, tone, and author's purpose
• write a variety of expository essays
• demonstrate an understanding of both the multiple choice and the essay sections of the AP Exam

AP ENGLISH LITERATURE AND COMPOSITION
BHS, LHS, MVHS, TVHS (Grades 11, 12)
Credit:  1.0 Language Arts
If student has met the Language Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Recommended: AP Language and Composition
Fee:  Student pays for textbook

In AP English Literature and Composition, students will:
• read various genres from world literature
• analyze the use and effectiveness of literary elements such as imagery, tone, juxtaposition, and voice
• demonstrate college-level skills through writing literary-analysis essays
• understand both the multiple choice and essay sections of the AP Exam
<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>COURSE</th>
<th>CODE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
</table>
| English Language Arts | INTRODUCTION TO LITERATURE | 1140 | TVHS  
Credit: .50 Language Arts  
* College credit may be available  
In Introduction to Literature, students will:  
• be Introduced to fiction, poetry, and drama  
• emphasize active and responsive reading  
• prepare and deliver a variety of speeches that develop skills in research, persuasion, incorporating technology, and presentation  
• analyze the validity and relevance of sources |
| English Language Arts | SPEECH | 1120 | BHS, MVHS, TVHS  
Credit: .50 Speech (Classes Prior to 2021)  
Credit: .50 Language Arts (Class of 2021-2023)  
In Speech, students will:  
• demonstrate an understanding of the communication process  
• demonstrate an understanding of intrapersonal and interpersonal communication  
• demonstrate an understanding of and develop skills in the group process |
| English Language Arts | SPEECH - ADVANCED | 1121 | TVHS  
Credit: .50 Speech (Classes Prior to 2021)  
Credit: .50 Career Pathway Advanced Elective (Class of 2021-2023)  
Recommended: Speech  
* College credit may be available  
In Speech - Advanced, students will:  
• demonstrate, through delivery and examination, understanding of these essential factors in Public Speaking; speaker, message, delivery, audience, occasion, and purpose along with the critical thinking processes related to each  
• evaluate selected speeches using the following skills: listening, reasoning, content analysis, and speech criticism  
• incorporate understanding of these speaker factors into speech performance: source credibility, communication apprehension, and speaker ethics  
• prepare and deliver a speech that includes knowledge of these communication concepts: topic selection, preparation, organization, support/research materials, and language  
• demonstrate understanding of Selected Speech Modes as illustrated through these accomplishment strategies: impromptu, extemporaneous, manuscript, and memorized  
• demonstrate understanding of Vocal and Bodily Delivery: vocal pitch, rate, volume, vocal variety, movement, gestures, eye contact, facial expression, visual/audio aids  
• demonstrate the ability to select and apply contemporary forms of technology to solve problems or compile information  
• read, analyze and apply written materials to new situations |
### Family and Consumer Sciences

Students who take Family and Consumer Sciences (FCS) courses may join FCCLA

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CATERING</strong></td>
<td>8006, 8007</td>
<td>BHS, LHS, MVHS, TVHS</td>
</tr>
<tr>
<td>Credit: 1.0 Applied Arts (Classes Prior to 2021)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recommended: Culinary Careers and Nutrition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fee: $25 per semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>National certification is available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pathway: <a href="#">Hospitality and Tourism</a> - Hospitality, Human Services and Education</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Do you want to explore the ins and outs of a Catering business?
This course will provide students with hands on view of running a catering business, catering events, and preparing food for large amounts of people. This includes: creating menus, understanding kitchen equipment, controlling cost, various cooking techniques, styling trends and plating techniques.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CATERING ADVANCED</strong></td>
<td>8026, 8027</td>
<td>BHS, LHS, TVHS</td>
</tr>
<tr>
<td>Credit: 1.0 Applied Arts (Classes Prior to 2021)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recommended: Culinary Careers and Nutrition and Catering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fee: $25 per semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pathway: <a href="#">Hospitality and Tourism</a> - Hospitality, Human Services and Education</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Do you want to continue to explore the ins and outs of a Catering business?
Students in this course will have hands on experience working with Thompson School District schools and community members to plan catering events, complete in culinary competitions, prepare staff meals and advance their culinary knowledge. Students will gain real life experience by marketing events, analyzing the costs of food, creating grocery orders, menu planning, event planning and customer service skills while catering events.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CHILD AND ADOLESCENT DEVELOPMENT</strong></td>
<td>8125</td>
<td>BHS, FHS, LHS, MVHS, TVHS</td>
</tr>
<tr>
<td>Credit: .50 Applied Arts (Classes Prior to 2021)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Credit: .50 Career Pathway Elective (Class of 2021-2023)</td>
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<td></td>
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<tr>
<td>Fee: $5 per semester</td>
<td></td>
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</tr>
<tr>
<td>Pathway: <a href="#">Education and Training</a> - Hospitality, Human Services and Education</td>
<td></td>
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</tr>
</tbody>
</table>

Do you love playing and working with children?
This course is designed to look at how children grow and develop (their brains, bodies, feelings, and social skills) from before birth to young adult. We will look at what has been done in the past and how it has influenced how children are raised today. Through observing we will also get to see how playing, reading, nutrition, nurture and love all impact a child’s growth. We’ll identify the difference between discipline, guidance and punishment while comparing various parenting styles.

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Schools</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CULINARY CAREERS AND NUTRITION</strong></td>
<td>8018</td>
<td>BHS, FHS, LHS, MVHS, TVHS</td>
</tr>
<tr>
<td>Credit: .50 Applied Arts (Classes Prior to 2021)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Credit: .50 Career Pathway Elective (Class of 2021-2023)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fee: $25 per semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pathway: <a href="#">Hospitality and Tourism</a> - Hospitality, Human Services and Education</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Need to learn your way around the kitchen? Do you want to be able to cook meals for yourself that are tasty AND good for you?
This introductory course explores careers within the culinary industry beginning with a foundation in nutrition and developing skills in safe and sanitary food handling, working with tools and equipment, and planning and preparing foods that are healthy choices for people across the lifespan.
Family and Consumer Sciences

Students who take Family and Consumers Sciences (FCS) courses may join FCCLA.

DESIGN SEMINAR 8142
LHS, MVHS
Credit: .50 Applied Arts (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)
Fee: $25 per semester
Pathway: Arts and Visual Design - Hospitality, Human Services and Education

In Design Seminar, students will:
Receive an introduction to the elements and principles of design as seen in both interior design, fashion design, merchandising, and a variety of other fields. In addition, it will introduce students to many careers that require design and allow them to analyze their own career pathways to determine where design may fit.

EARLY CHILDHOOD EDUCATION 101 8012
LHS, TVHS
Credit: .50 Applied Arts (Classes Prior to 2021)
Credit: .50 Career Pathway Advanced Elective (Class of 2021-2023)
Recommended: Child and Adolescent Development
Fee: $10 per semester
Pathway: Education and Training - Hospitality, Human Services and Education

In Early Childhood Education 101, students will:
Discover that there is a vast field for working with children. In this course those paths are explored while developing the skills to create a safe environment and applying the eight universal core values for the needs of children from prenatal stages to age eight. There are opportunities for hands on experience through a “Buddy-Up” program in certain schools to apply your learning to the real world.

EARLY CHILDHOOD EDUCATION 102 8013
LHS, TVHS (Grades 10, 11, 12)
Credit: .50 Applied Arts (Classes Prior to 2021)
Credit: .50 Career Pathway Advanced Elective (Class of 2021-2023)
Recommended: Child and Adolescent Development and Early Childhood Education 101
Fee: $10 per semester
Pathway: Education and Training - Hospitality, Human Services and Education
* College credit may be available

In Early Childhood Education 102, students will:
Prepare for working with children in primary grades, start career preparation for elementary age children by going out into your community to experience this type of work first hand.

FASHION DESIGN AND MERCHANDISING 1 8138
LHS, MVHS
Credit: .50 Applied Arts (Classes Prior to 2021)
Credit: .50 Career Pathway Advanced Elective (Class of 2021-2023)
Recommended: Design Seminar
Fee: $25 per semester
Pathway: Arts and Visual Design - Hospitality, Human Services and Education

Do you have a passion for fashion? Are you a #fashionista?
If so, then this course is for you! It provides students with a broad exposure to aspects of Fashion Design including basic fashion terminology, elements and principles of design, historical, social and cultural influences and basic sewing and construction techniques in a project based course. Students will examine their personal style, analyze fashions trends and fads, explore color theory in relation to fashion, examine celebrated fashion designers, learn fashion sketching and illustration, and create a basic sewing project.
**Family and Consumer Sciences**

Students who take Family and Consumer Sciences (FCS) courses may join FCCLA

<table>
<thead>
<tr>
<th>FASHION DESIGN AND MERCHANDISING 2</th>
<th>8140</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVHS</td>
<td></td>
</tr>
<tr>
<td>Credit: .50 Applied Arts (Classes Prior to 2021)</td>
<td></td>
</tr>
<tr>
<td>Credit: .50 Career Pathway Advanced Elective (Class of 2021-2023)</td>
<td></td>
</tr>
<tr>
<td>Recommended: Fashion Design and Merchandising 1</td>
<td></td>
</tr>
<tr>
<td>Fee: $25 per semester</td>
<td></td>
</tr>
<tr>
<td>Pathway: <a href="#">Arts and Visual Design</a> - Hospitality, Human Services and Education</td>
<td></td>
</tr>
</tbody>
</table>

In Fashion Design and Merchandising 2, students will:
Have the opportunity to do an in-depth exploration of fashion design with an emphasis in pattern making, green and recycled products, and fashion merchandising. Students will draft a basic pattern, analyze fashion merchandising techniques, explore and create green products, and create various projects.

<table>
<thead>
<tr>
<th>INTERIOR DESIGN 1</th>
<th>8008</th>
</tr>
</thead>
<tbody>
<tr>
<td>BHS, LHS, MVHS, TVHS (Grades 10, 11, 12)</td>
<td></td>
</tr>
<tr>
<td>Credit: .50 Applied Arts (Classes Prior to 2021)</td>
<td></td>
</tr>
<tr>
<td>Credit: .50 Career Pathway Elective (Class of 2021-2023)</td>
<td></td>
</tr>
<tr>
<td>Recommended: Design Seminar at LHS and MVHS</td>
<td></td>
</tr>
<tr>
<td>Fee: $20 per semester</td>
<td></td>
</tr>
<tr>
<td>Pathway: <a href="#">Arts and Visual Design</a> - Hospitality, Human Services and Education</td>
<td></td>
</tr>
</tbody>
</table>

Are you creative and enjoy doing hands on projects?
Students will gain an understanding of the elements and principles of design; learn to make appropriate selections of colors, fabrics, furnishings, lighting and furniture; and develop skills in architectural drafting and space planning through the use of hand or computerized drafting techniques. The final major project includes a design scenario where students develop a floor plan, select materials and color choices, decide arrangement of furnishings accompanied with a detailed report of reasons for the choices.

<table>
<thead>
<tr>
<th>INTERIOR DESIGN 2</th>
<th>8009</th>
</tr>
</thead>
<tbody>
<tr>
<td>BHS, LHS, MVHS, TVHS (Grades 10, 11, 12)</td>
<td></td>
</tr>
<tr>
<td>Credit: .50 Applied Arts (Classes Prior to 2021)</td>
<td></td>
</tr>
<tr>
<td>Credit: .50 Career Pathway Advanced Elective (Class of 2021-2023)</td>
<td></td>
</tr>
<tr>
<td>Recommended: Interior Design 1</td>
<td></td>
</tr>
<tr>
<td>Fee: $20 per semester</td>
<td></td>
</tr>
<tr>
<td>Pathway: <a href="#">Arts and Visual Design</a> - Hospitality, Human Services and Education</td>
<td></td>
</tr>
</tbody>
</table>

* College credit may be available

How do you design a public space that's safe and functional but still looks good?
It focuses on designing commercial spaces such as restaurants, resorts, hotels, stores and many more. Throughout the semester students will identify the different careers within the growing field of commercial design. The semester will end with an opportunity for students to develop and present a unique commercial design for a client including a floor plan and design board.
**Family and Consumer Sciences**

Students who take Family and Consumer Sciences (FCS) courses may join FCCLA.

**INTRODUCTION TO HEALTH SCIENCE**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>School Type</th>
<th>Grade Levels</th>
<th>Credit</th>
<th>Pathway</th>
</tr>
</thead>
<tbody>
<tr>
<td>5802, 5803</td>
<td>BHS, LHS, MVHS, TVHS</td>
<td>10, 11, 12</td>
<td>1.0</td>
<td>Health Sciences - Hospitality, Human Services and Education</td>
</tr>
</tbody>
</table>

In *Introduction to Health Science*, student's will:
- be introduced to career possibilities in healthcare and informs students of educational opportunities available in health science programs
- Skills introduced include beginning anatomy and physiology, medical terminology, employability, communication, customer services, cultural awareness, disease and disorders with a focus on homeostatic imbalances, and technology skills necessary in the healthcare industry

**LIFE MANAGEMENT**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>School Type</th>
<th>Grade Levels</th>
<th>Credit</th>
<th>Fee</th>
<th>Pathway</th>
</tr>
</thead>
<tbody>
<tr>
<td>8001</td>
<td>FHS</td>
<td>11, 12</td>
<td>.50</td>
<td>$5 per semester</td>
<td>Life Skills - Hospitality, Human Services and Education</td>
</tr>
</tbody>
</table>

Do you feel prepared for life after high school? Are you ready to #adult? Your future is closer than you think!

In *Life Management* students will gain a better understanding of real-world life skills such as: goal setting, decision making, career exploration, workforce skills, money management, and housing/living arrangements. Students will leave this course prepared to take on the real world!

**NUTRITION AND WELLNESS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>School Type</th>
<th>Grade Levels</th>
<th>Credit</th>
<th>Fee</th>
<th>Pathway</th>
</tr>
</thead>
<tbody>
<tr>
<td>8020</td>
<td>BHS, FHS, LHS, MVHS, TVHS</td>
<td></td>
<td>.50</td>
<td>$25 per semester</td>
<td>Life Skills - Hospitality, Human Services and Education</td>
</tr>
</tbody>
</table>

Wellness is more than just eating well and working out!

In this course students will discover and develop strategies that will build lifelong, healthy individuals. Come explore all areas of wellness and how making small changes can make a big difference. Participate in various types of exercise that can easily be incorporated into everyday life. Learn the basics of nutrition and learn why what you eat matters. Sift through all of the “wellness” information in our society and choose products and behaviors that actually benefit wellness.
Family and Consumer Sciences

Students who take Family and Consumer Sciences (FCS) courses may join FCCLA.

**PROSTART 1**

MVHS, TVHS (Grades 11, 12)
Credit: 1.0 Applied Arts (Classes Prior to 2021)
Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)
Recommended: Instructor Approval
Fee: $75 per semester
Pathway:  Hospitality and Tourism - Hospitality, Human Services and Education

* College credit may be available

Do you want to stand out from the crowd? Are you interested in gaining college credit while in high school? If so then ProStart is for you.
ProStart is a nationally certified program where students learn about and gain skills in the foodservice and hospitality industries. Students will gain an understanding of the wide variety of career options available. Hands on learning, applying skills, and meeting experts from the industry are just a few of the advantages of ProStart. Opportunity to compete in state ProStart competition where they can win scholarships.

**PROSTART 2**

MVHS, TVHS
Credit: .50 Applied Arts and .50 Social Studies (Classes Prior to 2021)
Credit: .50 Career Pathway Advanced Elective and .50 Social Studies (Class of 2021-2023)
Recommended: ProStart 1 and instructor approval
Fee: $75 per semester

* College credit may be available

Pathway: Hospitality and Tourism - Hospitality, Human Services and Education

Did you enjoy ProStart 1?
From culinary techniques to management skills, ProStart’s industry-driven curriculum provides real-life experience opportunities and builds practical skills and a foundation that will last a lifetime. Opportunity to compete in state ProStart competition where you can win scholarships.

**RELATIONSHIPS**

FHS
LHS, MVHS, TVHS (Grades 11, 12)
Credit: .50 Applied Arts (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)
Fee: $5 per semester
Pathway: Life Skills - Hospitality, Human Services and Education

What does a healthy relationships look like? Wondering if your relationships are healthy?
Every interaction we have with a person is a type of relationship and each type of relationship should be healthy and meaningful. Develop an understanding who you are as an individual will help guide how you invite people into your life. In this course we explore the wide range of relationships and develop skills to make each a positive, long lasting experience.

**TEACHER CADET 1**

BHS (Grades 11, 12)
Credit: 1.0 Applied Arts (Classes Prior to 2021)
Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)
Recommended: Application Process Required
Fee: $5 per semester credit

* College credit may be available

Pathway: Education and Training - Hospitality, Human Services and Education

Have you ever had a teacher that has had an impact on your life? Do you want to influence others around you?
There is so much that teacher's do that students do not see. In this course, we will learn what being a teacher looks like behind the scenes. We will learn how children grow and develop, explore the big picture of education including history and the governmental impact, and complete a 50 hour mini-student teaching experience.
Students who take Family and Consumer Sciences (FCS) courses may join FCCLA.

**TEACHER CADET 2**
8016, 8017
BHS (Grade 12)
Credit: 1.0 Applied Arts (Classes Prior to 2021)
Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)
Recommended: Completion of Teacher Cadet 1 with Instructor permission
Fee: $5 per semester credit
Pathway: [Education and Training](#) - Hospitality, Human Services and Education

*Was Teacher Cadet 1 fun and you want more?*
Teacher Cadet 2 is a great extension of Teacher Cadet 1 and includes more field experience and teaching time as well as more in-depth learning about managing a classroom and lesson planning.

**TEEN CHALLENGES AND CHOICES**
8000
BHS, FHS, LHS, MVHS, TVHS
Credit: .50 Applied Arts or Health (Classes Prior to 2021)
Credit: .50 Health or Career Pathway Elective (Class of 2021-2023)
Fee: $10 per semester
Pathway: [Life Skills](#) - Hospitality, Human Services and Education

*Do you feel overwhelmed with the choices you face as a young adult?*
This course is designed to help you navigate the hazards and rewards of your choices. It’s time to learn about how your choices affect your well-being, relationships, and your future. Explore the challenges that young adults face, including personal growth, communication, relationships, substance abuse, suicide prevention, and sexual health with a possible optional teen/parent simulation.
**Health**

**HEALTH**

BHS, LHS, MVHS, TVHS  
Credit: .50 Health  

_In Health, students will:_  
- understand and use the strategies for wellness  
- understand the importance of self-knowledge for emotional wellness  
- understand the processes, responsibilities, and consequences of human sexuality  
- understand the importance of proper nutrition  
- understand and create a strategy which applies knowledge to his/her own life

**TEEN CHALLENGES AND CHOICES**

BHS, LHS, MVHS, TVHS  
Credit: .50 Applied Arts or Health (Classes Prior to 2021)  
Credit: .50 Health or Career Pathway Elective (Class of 2021-2023)  
Fee: $10 per semester  
Pathway: [Life Skills - Hospitality, Human Services and Education](#)

_Do you feel overwhelmed with the choices you face as a young adult?_  
This course is designed to help you navigate the hazards and rewards of your choices. It’s time to learn about how your choices affect your well-being, relationships, and your future. Explore the challenges that young adults face, including personal growth, communication, relationships, substance abuse, suicide prevention, and sexual health with a possible optional teen/parent simulation.
**Industrial Science and Technology**

Students who take Industrial Science and Technology (IST) courses may join Skills USA or Technology Student Association (TSA)

<table>
<thead>
<tr>
<th>COURSE NAME</th>
<th>COURSE CODES</th>
<th>CREDIT INFORMATION</th>
<th>PATHWAY INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>AEROSPACE ENGINEERING</td>
<td>8410, 8411</td>
<td>MVHS</td>
<td>1.0 Applied Arts (Classes Prior to 2021)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Recommended: Introduction to Engineering Design or Principles of Engineering</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Fee: $30 per semester</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Pathway: <a href="#">Project Lead the Way</a> / Engineering - STEM, Arts, Design and Information Technology</td>
</tr>
</tbody>
</table>

**In Aerospace Engineering, students will:**
- apply scientific and engineering concepts
- design materials and processes that directly measure, repair, and improve systems in different environments
- utilize a wind tunnel to test the aerodynamic lift and drag of objects
- explore rocketry design principles
  
  See the [Project Lead the Way](#) pages for the complete course listings

<table>
<thead>
<tr>
<th>AMPED PROGRAM - ALGEBRA 1 in Manufacturing Processes, Entrepreneurship and Design</th>
<th>LHS</th>
<th>2090, 2091</th>
<th>8424, 8425</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Algebra 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Manufacturing Processes, Entrepreneurship and Design</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**AMPED PROGRAM - ALGEBRA 1 in Manufacturing Processes, Entrepreneurship and Design**

**In AMPED, students will:**
- be offered a hands-on approach to help students learn the content of Algebra
- learn connections such as why they need to know y = mx + b by operating a self-sustaining t-shirt business
- learn how to carry out an order from selling to graphic design to shirt production
- engage in other projects that may include working in wood/metal shops, laser engraving, 3-D printing and sublimating

<table>
<thead>
<tr>
<th>ARCHITECTURAL DRAWING</th>
<th>TVHS</th>
<th>8304, 8305</th>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

**ARCHITECTURAL DRAWING**

**In Architectural Drawing, students will:**
- draw and read residence plans
- practice application of construction principles and local building codes relating to residential design and planning
- draw typical sheets in residential plans including a site plan, floor plan, foundation plan, elevations, and section details
- utilize computer aided drafting (CAD) techniques for design
## Industrial Science and Technology

**Students who take Industrial Science and Technology (IST) courses may join Skills USA or Technology Student Association (TSA)**

### CONSTRUCTION 1

<table>
<thead>
<tr>
<th>MVHS, TVHS</th>
<th>8310, 8311</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Credit:</strong></td>
<td>1.0 Applied Arts (Classes Prior to 2021)</td>
</tr>
<tr>
<td><strong>Credit:</strong></td>
<td>1.0 Career Pathway Advanced Elective (Class of 2021-2023)</td>
</tr>
<tr>
<td><strong>Fee:</strong></td>
<td>$25 per semester</td>
</tr>
<tr>
<td><strong>Pathway:</strong></td>
<td>Architecture and Construction - STEM, Arts, Design and Information Technology</td>
</tr>
</tbody>
</table>

### BHS

<table>
<thead>
<tr>
<th>8310</th>
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<tbody>
<tr>
<td><strong>Credit:</strong></td>
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<tr>
<td><strong>Credit:</strong></td>
</tr>
<tr>
<td><strong>Fee:</strong></td>
</tr>
<tr>
<td><em>College Credit May be Available</em></td>
</tr>
<tr>
<td><strong>Pathway:</strong></td>
</tr>
</tbody>
</table>

*In Construction 1, students will:*
- learn safety, problem solving, machine and tool use, and drawing interpretation
- be exposed to practical skills used in building and carpentry trades
- develop interest for a lifetime hobby and have fun

### CONSTRUCTION 2

<table>
<thead>
<tr>
<th>BHS, MVHS, TVHS</th>
<th>8312</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Credit:</strong></td>
<td>.50 Applied Arts (Classes Prior to 2021)</td>
</tr>
<tr>
<td><strong>Credit:</strong></td>
<td>.50 Career Pathway Advanced Elective (Class of 2021-2023)</td>
</tr>
<tr>
<td><strong>Recommended:</strong></td>
<td>Construction 1</td>
</tr>
<tr>
<td><strong>Fee:</strong></td>
<td>$25 per semester</td>
</tr>
<tr>
<td><em>College credit may be available</em></td>
<td></td>
</tr>
<tr>
<td><strong>Pathway:</strong></td>
<td>Architecture and Construction - STEM, Arts, Design and Information Technology</td>
</tr>
</tbody>
</table>

*In Construction 2, students will:*
- build upon information and activities presented in Construction 1
- choose projects to expand their woodworking abilities
- be expected to design, research, construct, and evaluate each project
- be involved in a mass production unit which will expose them to the free enterprise system
- use various alternative materials

### DIGITAL ELECTRONICS

<table>
<thead>
<tr>
<th>8404, 8405</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Credit:</strong></td>
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<tr>
<td><strong>Credit:</strong></td>
</tr>
</tbody>
</table>

*In Digital Electronics, students will:*
Courses where students use computer simulation to learn about the logic of electronics as they design, test, and actually construct circuits and devices. Programmable logic, digital circuit prototyping, and soldering are examples of student activities.

**See the Project Lead the Way** pages for the complete course listings
Industrial Science and Technology

Students who take Industrial Science and Technology (IST) courses may join Skills USA or Technology Student Association (TSA)

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGINEERING DESIGN AND DEVELOPMENT</td>
<td></td>
<td>MVHS</td>
</tr>
<tr>
<td>Credit</td>
<td>1.0</td>
<td>Applied Arts (Classes Prior to 2021)</td>
</tr>
<tr>
<td>Credit</td>
<td>1.0</td>
<td>Career Pathway Advanced Elective (Class of 2021-2023)</td>
</tr>
<tr>
<td>Fee</td>
<td>$30</td>
<td>per semester</td>
</tr>
<tr>
<td>Pathway</td>
<td>Project Lead the Way / Engineering - STEM, Arts, Design and Information Technology</td>
<td></td>
</tr>
</tbody>
</table>

In Engineering Design and Development, students will:
- work in teams
- work with mentors
- research, design, and construct solutions to engineering problems
- integrate science, technology, engineering, and math design solutions
- See the Project Lead the Way pages for the complete course listings

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGINEERING YOUR WORLD</td>
<td></td>
<td>TVHS</td>
</tr>
<tr>
<td>Credit</td>
<td>1.0</td>
<td>Applied Arts (Classes Prior to 2021)</td>
</tr>
<tr>
<td>Credit</td>
<td>1.0</td>
<td>Career Pathway Elective (Class of 2021-2023)</td>
</tr>
<tr>
<td>Fee</td>
<td>$30</td>
<td>per semester</td>
</tr>
<tr>
<td>Pathway</td>
<td>Project Lead the Way / Engineering - STEM, Arts, Design and Information Technology</td>
<td></td>
</tr>
</tbody>
</table>

In Engineering Your World, students will:
- utilize the design process to analyze requirements, generate concepts, develop design, and verify performance
- test and redesign structures for human safety
- engage in reverse engineering and redesign
- conduct risk analysis and systems engineering
- develop understanding of automation and control systems
- See the Project Lead the Way pages for more course information

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXECUTIVE INTERNSHIP – STEM, ARTS, DESIGN AND INFORMATION TECHNOLOGY</td>
<td></td>
<td>BHS, LHS, MVHS, TVHS</td>
</tr>
<tr>
<td>Credit</td>
<td>.50</td>
<td>Applied Arts (Classes Prior to 2021)</td>
</tr>
<tr>
<td>Credit</td>
<td>.50</td>
<td>Career Pathway Advanced Elective (Class of 2021-2023)</td>
</tr>
<tr>
<td>Pathway</td>
<td>Architecture and Construction / Engineering – STEM, Arts, Design and Information Technology</td>
<td></td>
</tr>
</tbody>
</table>

In Executive Internship, students will:
- Learn to provide a practical introduction to the work environment through direct contact with professionals in the community. The content should include, but not be limited to, the following: discussion of professional job requirements, awareness and knowledge of career opportunities, building vocabulary apocopate to the area of professional interest, development of decision-making skills, and development of personal and educational job-related skills
Industrial Science and Technology

Students who take Industrial Science and Technology (IST) courses may join Skills USA or Technology Student Association (TSA)

**FIRE SCIENCE PROGRAM**

- Principles of Emergency Services  8426
- Fire Prevention  8431
- Fire Behavior and Combustion  8430
- Building Construction / Fire Prevention  8432

BHS
Credit: 2.0 Applied Arts (Classes Prior to 2021)
Credit: 2.0 Career Pathway Advanced Elective (Class of 2021-2023)

*College credit may be available*

In the Fire Science Program, students will:

- be provided an overview to fire protection, career opportunities in fire protection and related fields, philosophy and history of fire protection/service, fire loss analysis, organization and function of public and private fire protection services, fire departments as part of local government, laws and regulations affecting the fire service, fire service nomenclature, specific fire protection functions, basic fire chemistry and physics
- explore the theories and fundamentals of how and why fires start, spread, and are controlled
- be provided fundamental information regarding the history and philosophy of fire prevention, organization, and operation of a fire prevention bureau, use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life safety
- be introduced to the basic concepts of occupational health and safety as it relates to emergency service organizations. Topics include risk evaluation and control procedures for fire stations, training sites, emergency vehicles, and emergency situations involving fire, EMS, hazardous materials, and technical rescue.

The program introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavioral change throughout emergency services. Upon completion of this course, students should be able to establish and manage a safety program in an emergency service organization.

**GEOMETRY IN CONSTRUCTION**

- Geometry  2024, 2025
- Construction  8314, 8315

LHS
Fee: $30 per semester
Credit: 1.0 Math and 1.0 Applied Arts (Classes Prior to 2021)
Credit: 1.0 Math and 1.0 Career Pathway Elective (Class of 2021-2023)
Recommended: Algebra 1
Pathway: Architecture and Construction - STEM, Arts, Design and Information Technology

In Geometry in Construction, students will:

- be exposed to construction careers such as engineering, architecture, construction management, interior design, landscape architecture, and surveying
- learn safety, problem solving, tool use, and drawing interpretation
- understand the interrelation of geometry in construction
- use and coordinate geometry in the study of area, perimeter, volume, transformations, congruence, and functions
Students who take Industrial Science and Technology (IST) courses may join Skills USA or Technology Student Association (TSA)

**INTRODUCTION TO ENGINEERING DESIGN**  
8400, 8401  
BHS, MVHS  
Credit: 1.0 Applied Arts (Classes Prior to 2021)  
Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)  
Fee: $30 per semester  
*College credit may be available  
Pathway: [Project Lead the Way](#) / Engineering - STEM, Arts, Design and Information Technology

*In Introduction to Engineering Design, students will:*

- use 3-D computer modeling software  
- learn the design process  
- solve design problems  
- develop, analyze, and create product models  
- be introduced to 3-D rapid prototyping  
- See the [Project Lead the Way](#) pages for the complete course listings

**INVENTION AND DESIGN**  
8300  
TVHS  
Credit: .50 Applied Arts (Classes Prior to 2021)  
Credit: .50 Career Pathway Elective (Class of 2021-2023)  
Fee: $15 per semester  
Pathway: [Industrial Science and Technology](#) - STEM, Arts, Design and Information Technology  
Pathway: [Architecture and Construction](#) - STEM, Arts, Design and Information Technology

*In Invention and Design, students will:*

- be introduced to basic design procedures for graphic communications  
- develop basic skills in sketching, lettering, instrument use, and learn industry conventions  
- use and care for basic drafting tools and instruments  
- explore careers related to this field of study  
- be introduced to computer aided drafting (CAD)

**MANUFACTURING 1**  
8330  
MVHS, TVHS  
Credit: .50 Applied Arts (Classes Prior to 2021)  
Credit: .50 Career Pathway Elective (Class of 2021-2023)  
Fee: $15 per semester  
Pathway: [Industrial Science and Technology](#) – STEM, Arts, Design and Information Technology

*In Manufacturing 1, students will:*

- complete projects and activities  
- develop knowledge of manufacturing safety, history, trends, research, design, materials, processes, tools, and machines  
- develop knowledge and basic skills involving CNC machine operation  
- develop knowledge and basic skills involving robotic machine operation  
- develop an understanding of electric arc welding and oxy-acetylene gas welding through practice
Industrial Science and Technology

Students who take Industrial Science and Technology (IST) courses may join Skills USA or Technology Student Association (TSA)

MANUFACTURING 2

<table>
<thead>
<tr>
<th>MVHS, TVHS</th>
<th>8332, 8333</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit: 1.0 Applied Arts (Classes Prior to 2021)</td>
<td>Credit: 1.0 Career Pathway Elective (Class of 2021-2023)</td>
</tr>
<tr>
<td>Recommended: Manufacturing 1 or Geometry in Construction</td>
<td>Fee: $15 per semester</td>
</tr>
<tr>
<td>Pathway: <a href="#">Industrial Science and Technology</a> - STEM, Arts, Design and Information Technology</td>
<td></td>
</tr>
</tbody>
</table>

In Manufacturing 2, students will:
- complete projects using various manufacturing techniques
- build intermediate skills involving manufacturing techniques
- rotate through various activities involving manufacturing technologies
- develop intermediate skills involving CNC machine operation
- develop intermediate skills involving robotic machine operation
- develop an understanding of electric arc welding and oxy-acetylene gas welding through practice

PRINCIPLES OF ENGINEERING

<table>
<thead>
<tr>
<th>BHS, MVHS</th>
<th>8402, 8403</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit: 1.0 Applied Arts (Classes Prior to 2021)</td>
<td>Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)</td>
</tr>
<tr>
<td>Recommended: Introduction to Engineering Design</td>
<td>Fee: $30 per semester</td>
</tr>
<tr>
<td><em>College credit may be available</em></td>
<td></td>
</tr>
</tbody>
</table>

In Principles of Engineering, students will:
- explore technology systems
- explore engineering processes
- find out how math, science, and technology help people
- explore use of 3-D rapid prototyping in the design process
- explore a broad range of engineering topics including mechanisms
- the strength of structures and materials, and automation.
- Students develop skills in problem solving, research, and design while learning strategies for design process, documentation, collaboration, and presentation

PROJECT DESIGN TEAM

<table>
<thead>
<tr>
<th>LHS, TVHS</th>
<th>8306, 8307</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit: 1.0 Applied Arts (Classes Prior to 2021)</td>
<td>Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)</td>
</tr>
<tr>
<td>Recommended: Teacher approval and two levels of any Industrial Technology course</td>
<td>Fee: $15 per semester</td>
</tr>
<tr>
<td>Pathway: <a href="#">Architecture and Construction</a> - STEM, Arts, Design and Information Technology</td>
<td></td>
</tr>
</tbody>
</table>

In Project Design Team, students will:
- explore the dynamics of diversity among worker groups
- use team work to design and implement practical problem solutions
- learn to integrate computer applications, entrepreneurial, and marketing skills
- be involved in projects to develop verbal and written communication skills
- integrate math, science, and technological problem solving
Industrial Science and Technology

Students who take Industrial Science and Technology (IST) courses may join Skills USA or Technology Student Association (TSA)

TECHNICAL DRAWING
MVHS, TVHS
Credit: 1.0 Applied Arts (Classes Prior to 2021)
Credit: 1.0 Career Pathway Elective (Class of 2021-2023)
Recommended: Invention and Design or Geometry in Construction
Fee: $15 per semester
Pathway: Architecture and Construction - STEM, Arts, Design and Information Technology

In Technical Drawing, students will:
• review manual drawing, sketching, lettering, and industry conventions
• develop use of computer aided drafting (CAD) computer tools and design techniques
• make mechanical drawings: multi-views, pictorials, sections, and auxiliaries
• utilize basic rules of dimensioning and drawing annotation
• complete a major design project
• learn how drafting skills are valuable in manufacturing, building trades, graphic design, and engineering or architecture

TRANSPORTATION 1
TVHS
Credit: .50 Applied Arts (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)
Fee: $15 per semester
Pathway: Industrial Science and Technology - STEM, Arts, Design and Information Technology

In Transportation 1, students will:
• develop basic knowledge of complete activities related to the concepts and applications of transportation systems that serve society
• explore transportation history, careers, energy sources, power systems, and transportation systems
• develop a basic knowledge of ground, marine, air and space transportation systems
• work in teams to complete projects
• develop basic knowledge of automotive technologies

TRANSPORTATION 2
TVHS
Credit: 1.0 Applied Arts (Classes Prior to 2021)
Credit: 1.0 Career Pathway Elective (Class of 2021-2023)
Recommended: Transportation 1
Fee: $15 per semester
Pathway: Industrial Science and Technology - STEM, Arts, Design and Information Technology

In Transportation 2, students will:
• expand the knowledge and skills learned in Transportation 1
• study mechanical, thermal, fluid, and electrical systems in transportation systems; the automobile is used extensively to explore these systems
• use state of the art technologies including, but not limited to, the Internet, CD-ROM, automotive diagnostic equipment or simulators, and conventional equipment
Students who take Industrial Science and Technology (IST) courses may join Skills USA or Technology Student Association (TSA)

**WELDING AND METAL FABRICATION PROGRAM**

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Gas Metal Arc Welding</td>
<td>5683</td>
</tr>
<tr>
<td>Safety for Welders</td>
<td>5743</td>
</tr>
</tbody>
</table>

TVHS
Credit: .25 credit for each course = .50 Applied Arts credit (Classes Prior to 2021)
Credit: .25 credit for each course = .50 Career Pathway Advanced Elective credit (Class 2021)
Fee: $15 per semester

* College credit may be available
Pathway: Industrial Science and Technology, - STEM, Arts, Design and Information Technology

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
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<tbody>
<tr>
<td>Basic Shielded Metal Arc</td>
<td>5590</td>
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</tbody>
</table>

TVHS
Credit: .50 Applied Arts (Classes Prior to 2021)
Credit: .50 Career Pathway Advanced Elective (Class of 2021-2023)
Recommended: Intro to Gas Metal Arc Welding and Safety for Welders
Fee: $15 per semester

* College credit may be available
Pathway: Industrial Science and Technology, - STEM, Arts, Design and Information Technology

In *Introduction to Gas Metal Arc Welding and Safety for Welders*, students will:
- cover the hazards of welding on health and safety, locating essential safety information from a code or other standard, and identifying and applying shop safety procedures
- cover welding in all positions and on various joint configurations using the Gas Metal Arc Welding (Metal Inert Gas) welding process and flux core welding on carbon steel, stainless steel and aluminum. Student should be familiar with basic metallurgy pertaining to the weld ability of metals, structural joints, and safety in the welding industry

Basic Shielded Metal Arc, students will:
- cover performing safety inspections
- make minor repairs
- adjust operating parameters
- operate SMAW equipment utilizing E-6010, E-6013, and E-7018 electrodes. Layout procedures and practices will be introduced
Students taking Marketing courses may join DECA

**CAREER DEVELOPMENT**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
<th>Fee</th>
<th>Pathway</th>
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</thead>
<tbody>
<tr>
<td>5022</td>
<td>.50</td>
<td>$5</td>
<td>Marketing - Business, Marketing and Public Administration</td>
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**COMPUTER GRAPHICS – BUSINESS 1**

<table>
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<th>Course</th>
<th>Credit</th>
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<tbody>
<tr>
<td>5004</td>
<td>.50</td>
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</table>

**COMPUTER GRAPHICS – BUSINESS 2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit</th>
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<th>Pathway</th>
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</thead>
<tbody>
<tr>
<td>5005</td>
<td>.50</td>
<td>$15</td>
<td>Business Information Technology - Business, Marketing and Public Administration</td>
</tr>
</tbody>
</table>

In Career Development, students will:
- learn how to market themselves to employers
- receive information about financial aid and how to apply for scholarships
- gain employability skills (resumes, interviewing, and professional appearance) and skills for personal success (professional behavior and attitude)
- participate in a simulated interview
- complete an employment portfolio for workforce and/or college

In Computer Graphics Business 1, students will:
- explore basic concepts used in graphic design with Photoshop, Illustrator, and InDesign
- apply design principles to create original graphics
- be proficient in visual communication and personal expression
- focus on media literacy
- learn about advertising, copyright, and career opportunities
- create a portfolio

In Computer Graphics Business 2, students will:
- increase and compile their portfolio
- understand the process of completing a product with client input
- focus on the career aspect of graphic design
- increase their skill and technical abilities in computer use and software
- understand the various aspects of art and design
- discuss ethics and observe copyright laws
**Marketing**

**Students taking Marketing courses may join DECA.**

**COMPUTER GRAPHICS 3 – ANIMATION**

BHS, LHS (Grades 10, 11, 12)
Credit: .50 Applied Arts (Classes Prior to 2021)
Credit: .50 Career Pathway Advanced Elective (Class of 2021-2023)
Recommended: Computer Graphics 1 and 2
Fee: $15 per semester
Pathway: Business Information Technology - Business, Marketing and Public Administration

In *Computer Graphics Business 3 Animation*, students will:
- explore basic concepts and techniques used in graphic design
- apply design principles to create original graphics on the computer
- develop knowledge of visual communication and personal expression
- focus on media literacy and its impact on society
- become proficient at Adobe Create Suite 6, Flash, and Fireworks and incorporate the use of InDesign, Illustrator, Photoshop, and Unity 3D

**COMPUTER GRAPHICS 4 – ANIMATION**

LHS, MVHS, TVHS (Grades 10, 11, 12)
Credit: .50 Applied Arts (Classes Prior to 2021)
Credit: .50 Career Pathway Advanced Elective (Class of 2021-2023)
Recommended: Computer Graphics 1 and 2
Fee: $15 per semester
Pathway: Business Information Technology - Business, Marketing and Public Administration

In *Computer Graphics Business 4 Advanced Animation*, students will:
- explore basic concepts and techniques used in graphic design
- apply design principles to create original graphics on the computer
- develop knowledge of visual communication and personal expression
- focus on media literacy and its impact on society
- become proficient at Adobe Create Suite 6, Flash, and Fireworks and incorporate the use of InDesign, Illustrator, Photoshop, and Unity 3D

**ENTREPRENEURSHIP 1**

MVHS, LHS, TVHS (Grade 10, 11, 12)
Credit: 1.0 Applied Arts (Classes Prior to 2021)
Credit: 1.0 Career Pathway Elective (Class of 2021-2023)
Fee: $15 per semester
Pathway: Marketing - Business, Marketing and Public Administration

In *Entrepreneurship 1*, students will:
- develop, test, create, and pitch a business of their own to Loveland community members and potential investors
- work in a team-based environment for the entire year
- teams will learn about marketing, financial analysis, and the legal environment of running a business
- conduct interviews and orally present business concepts
- work with community mentors and coaches in and out of classroom
- give and receive constructive criticism to/from peers
**Marketing**

**Students taking Marketing courses may join DECA.**

**ENTREPRENEURSHIP 2**
5124, 5125
BHS, LHS, MVHS, TVHS
Credit: 1.0 Applied Arts (Classes Prior to 2021)
Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)
Recommended: 1 year of business classes and teacher approval
Fee: $15 per semester
Pathway: Marketing - Business, Marketing and Public Administration

In Entrepreneurship 2, students will:
- continue to develop, test, create, and pitch a business of their own to Loveland community members and potential investors
- continue to work in a team-based environment for the entire year
- teams will continue to learn about marketing, financial analysis, and the legal environment of running a business
- conduct interviews and orally present business concepts
- work with community mentors and coaches in and out of classroom
- give and receive constructive criticism to/from peers

**EXECUTIVE INTERNSHIP – BUSINESS, MARKETING AND PUBLIC ADMINISTRATION**
5084
BHS, LHS, MVHS, TVHS
Credit: .50 Applied Arts (Classes Prior to 2021)
Credit: .50 Career Pathway Advanced Elective (Class of 2021-2023)
Pathway: Business Information Technology - Business, Marketing and Public Administration
Pathway: Marketing - Business, Marketing and Public Administration

In Executive Internship, students will:
- Learn to provide a practical introduction to the work environment through direct contact with professionals in the community. The content should include, but not be limited to, the following: discussion of professional job requirements, awareness and knowledge of career opportunities, building vocabulary appropriate to the area of professional interest, development of decision-making skills, and development of personal and educational job-related skills

**INTRODUCTION TO BUSINESS AND MARKETING**
5018
BHS, LHS, MVHS, TVHS
Credit: .50 Applied Arts (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)
Fee: $5 per semester
Pathway: Marketing - Business, Marketing and Public Administration

In Introduction to Business and Marketing, students will:
- focus on the operation of the American business system
- develop a basic understanding of the fundamentals of the economy, threats and opportunities, marketing, management, production, governmental regulations, tools of business, and social responsibilities
- apply the marketing processes and strategies to business and the individual consumer
- develop hands-on projects using marketing principles
Marketing

Students taking Marketing courses may join DECA.

**MARKETING RESEARCH**

5041
LHS, MVHS, TVHS
Credit: .50 Applied Arts (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)
Fee: $5 per semester
Pathway: Marketing - Business, Marketing and Public Administration

*In Marketing Research, students will:*
- be introduced to the principles and practices of marketing research
- communicate the results of creating research design, data collection, and interpretation
- design and implement a marketing research project

**MARKETING WORK EXPERIENCE**

- CLASS
- INTERNSHIP
LHS, MVHS
TVHS (Grade 12)
Credit: 3.0* Applied Arts (Classes Prior to 2021)
Credit: 3.0* Career Pathway Advanced Elective (Class of 2021-2023)
* 2.0 Credits for Internship given for 540 hours of documented work experience
Fee: $5 per semester
Pathway: Marketing - Business, Marketing and Public Administration

*In Marketing Work Experience students will:*
- develop entrepreneurship planning skills and develop a comprehensive business plan
- study the areas of marketing strategies, profitability, human resource management, financial management and projections, innovations, and loan negotiations
- gain practical work experience related to their career pathway under the supervision of an experienced supervisor and instructor/coordinator

**SOCIAL MEDIA AND ADVERTISING**

5042
LHS, MVHS, TVHS
Credit: .50 Applied Arts (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)
Fee: $5 per semester
Recommended: 1 year of Marketing classes or teacher approval
* College credit may be available
Pathway: Marketing - Business, Marketing and Public Administration

*In Social Media and Advertising, students will:*
- examine the principles of advertising and its relationship to business
- study the areas of advertising principles, strategies, media, copy, and layout
- develop an ad and social media campaign

**SPORTS AND ENTERTAINMENT MARKETING**

5040
LHS, MVHS, TVHS
Credit: .50 Applied Arts (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)
Fee: $5 per semester
Pathway: Marketing - Business, Marketing and Public Administration

*In Sports and Entertainment Marketing, students will:*
- analyze the theoretical marketing processes and the strategies of product development, pricing, promotion, and distribution
Students taking Marketing courses may join DECA.

WEB DESIGN
BHS, LHS, MVHS, TVHS
Credit: .50 Applied Arts (Class of 2018–2020)
Credit: .50 Career Pathway Elective (Class of 2021-2023)
Fee: $5 per semester
Pathway: Business Information Technology - Business, Marketing and Public Administration
Pathway: Marketing - Business, Marketing and Public Administration

In Web Design, students will:
- learn about technology and software requirements, security issues, electronic payment, and marketing strategies
- stress the fundamentals of HTML syntax using a text editor to develop interactive web sites
- explore web-safe colors and graphic editors
- study web aesthetics and intuitive interface design
- emphasize file organization and layout
### ALGEBRA 1
BHS, FHS, LHS, MVHS, TVHS  
Credit: 1.0 Math

*In Algebra 1, students will:*  
Emphasize a balanced combination of procedure and conceptual understanding focusing on four critical areas:  
- using functions to model situations where one quantity determines another and can be represented algebraically, graphically, and using tables  
- modeling and solving quantitative relationships in the real world using functions  
- representing expressions in multiple, equivalent forms  
- developing solutions to equations, inequalities, and systems of equations using a variety of tools  

This critical content will be engaged by use of eight mathematical practice standards to facilitate students’ ability to transfer and apply their mathematical knowledge to new and novel situations.

### ALGEBRA 1 HONORS
LHS  
Credit: 1.0 Math

*In Algebra 1 Honors, students will:*  
Emphasize a balanced combination of procedure and conceptual understanding focusing on four critical areas:  
- using functions to model situations where one quantity determines another and can be represented algebraically, graphically, and using tables  
- modeling and solving quantitative relationships in the real world using functions  
- representing expressions in multiple, equivalent forms  
- developing solutions to equations, inequalities, and systems of equations using a variety of tools  
- This content will be engaged by use of eight mathematical practice standards to facilitate students’ ability to transfer and apply their mathematical knowledge to new and novel situations.

### AMPED - ALGEBRA 1 in Manufacturing Processes, Entrepreneurship and Design
- Algebra 1  
- Manufacturing Processes, Entrepreneurship and Design  
LHS  
Credit: 1.0 Math and 1.0 Applied Arts (Classes Prior to 2021)  
Credit: 1.0 Math and 1.0 Career Pathway Elective (Class of 2021-2023)  
Fee: $30 per semester  
Pathway: [Industrial Science and Technology](#) - STEM, Arts, Design and Information Technology

*In AMPED, students will:*  
- be offered a hands-on approach to help students learn the content of Algebra  
- learn connections such as why they need to know \( y = mx + b \) by operating a self-sustaining t-shirt business  
- learn how to carry out an order from selling to graphic design to shirt production  
- engage in other projects that may include working in wood/metal shops, laser engraving, 3-D printing and sublimating
Mathematics

ALGEBRA 2
BHS, FHS, LHS, MVHS, TVHS
Credit: 1.0 Math
Recommended: Geometry

In Algebra 2, students will:
Courses emphasize a balanced combination of procedure and conceptual understanding focusing on critical areas. These areas will be engaged by use of eight mathematical practice standards to facilitate students’ ability to transfer and apply their mathematical knowledge to new and novel situations.

• solve any real linear or quadratic equation in one, two, three, or more variables
• visualize, express, interpret, and graph functions
• extend the use of trigonometry to the laws of sines and cosines and connect right triangle definitions with the trigonometric functions
• apply mathematics to problems in economics, biology, chemistry, and physics
• use elementary statistics and probability to solve problems

ALGEBRA 2 PRE AP
MVHS, TVHS
Credit: 1.0 Math
Recommended: Geometry

In Algebra 2 Pre AP, students will:
• learn the same skills as in Algebra 2, but at a more advanced and rigorous level. Per the AP Central College Board’s website, “Pre-AP is based on the following two important premises. The first is the expectation that all students can perform well at rigorous academic levels. The second important premise of Pre-AP is the belief that we can prepare every student for higher intellectual engagement by starting the development of skills and acquisition of knowledge as early as possible.” ([apcentral.collegeboard.com](http://apcentral.collegeboard.com))

ALGEBRA 2 HONORS
LHS
Credit: 1.0 Math
Recommended: Geometry

In Algebra 2 Honors, students will:
• learn the same skills as in Algebra 2, but at a more advanced and rigorous level. The first is the expectation that all students can perform well at rigorous academic levels. The second important premise of Honors level is the belief that we can prepare every student for higher intellectual engagement by starting the development of skills and acquisition of knowledge.
Mathematics

ALGEBRA 2 HONORS AND PRE-CALCULUS HONORS
- Algebra 2 Honors  2056, 2057
- Pre-Calculus Honors 2070, 2071
LHS
Credit: 2.0 Math
Recommended: Geometry

In Algebra 2 and Pre-Calculus, students will:
- Students will complete the requirements for each year-long class within a semester by attending two class periods per day.

ADVANCED ALGEBRA WITH FINANCIAL APPLICATIONS 2048, 2049
BHS, FHS, LHS, MVHS, TVHS
Credit: 1.0 Math
If student has met the Math graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Recommended: Geometry

In Advanced Algebra with Financial Applications, students will:
- address college preparatory mathematic topics from Advanced Algebra, Statistics, and Probability under seven financial umbrellas: banking, investing, modeling a business, employment and income taxes, automobile ownership, independent living, and retirement planning and household budgeting
- use a variety of problem-solving skills and strategies in real-world contexts
- apply algebraic representation, graphical representations, and verbal representations of mathematical functions as they relate to financial applications

ADVANCED ALGEBRA WITH SOCIAL APPLICATIONS 2050, 2051
TVHS (Grades 10-12)
Credit: 1.0 Math
If student has met the Math graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Recommended: Algebra and Geometry

In Advanced Algebra with Social Applications, students will:
Address college preparatory mathematic topics from Advanced Algebra, Statistics and Probability under several Social Studies performance indicators
- Research, formulate positions and engage in local, state and national issues
- Evaluate the limitations on the functions of government
- Explain and interpret geographic variables that influence interactions
- Investigate the interconnected nature of the world
- Analyze and interpret data to develop interpretations defended by evidence
- Analyze continuity and change and cause and effect over time
- Analyze and evaluate how choices are made about the allocation of resources
- Use a variety of problem-solving skills and strategies in real-world contexts
- Apply algebraic representations, graphical representations and verbal representations of mathematical functions as they relate to social applications
Mathematics

ALGEBRA LITERATURE/COLLEGE ALGEBRA  
2504, 2505
TVHS (Grade 12)  
Credit: 1.0 Math  
If student has met the Math graduation requirement this course will count towards the  
Career Pathway Advanced Elective Requirement (Class of 2021-2023)  
Recommended: Must have counselor approval

In Algebra Literature/College Algebra, students will:  
• develop algebraic skills necessary for manipulating expressions and solving equations. Topics in the course  
  include radicals, complex numbers, polynomials, factoring, rational expressions, quadratic equations,  
  absolute value equations and inequalities, systems of linear equations, related applications, and math  
  learning strategies. This course prepares students for College Algebra and Finite Math  
• include a brief review of intermediate algebra, equations and inequalities, functions and their graphs,  
  exponential and logarithmic functions, linear and nonlinear systems, selection of topics from among  
  graphing of the conic sections, introduction to sequences and series permutations and combinations, the  
  binomial theorem and theory of equations

CALCULUS  
2082, 2083
BHS, TVHS  
Credit: 1.0 Math  
Recommended: Trigonometry/Functions

In Calculus, students will:  
• understand limits of functions through graphing, symbolic, and numerical evaluation  
• understand the concept of a function derivative and apply it to related rate and extreme problems  
• understand the concept of a function integral and apply it to area, volume, and work problems

AP CALCULUS AB  
2084, 2085
BHS, LHS, MVHS, TVHS  
Credit: 1.0 Math  
If student has met the Math graduation requirement this course will count towards the  
Career Pathway Advanced Elective Requirement (Class of 2021-2023)  
Recommended: Teacher recommendation; Algebra 1 and 2, Geometry and Trigonometry/Functions  
Fee: Student pays for textbook.

In AP Calculus AB, students will:  
• understand properties of functions, limits, the derivative and its applications, anti-derivatives,  
  techniques of integration, and the definite integral and its applications  
• study the college curriculum equivalent to one and one-half years of college level Calculus topics  
• be able to take the AP test in order to possibly receive college credit for Calculus 1/Calculus 2
Mathematics

AP CALCULUS BC
BHS, LHS, MVHS, TVHS
Credit: 1.0 Math
If student has met the Math graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Recommended: Teacher recommendation; Algebra 1 and 2, Geometry and Trigonometry/Functions
Fee: Student pays for textbook.

In AP Calculus BC, students will:
• continue learning properties of functions, limits, derivative, integral, and applications
• explore finite and infinite sequences and series, approximate functions using power series
• explore the convergence of infinite power series
• explore polar functions with graphing, the derivative, and finding areas
• be able to take the AP Calculus BC test that is comprehensive over all Calculus topics

PRE CALCULUS HONORS
LHS, MVHS, TVHS
Credit: 1.0 Math
Recommended: Algebra 2

In Pre-Calculus Honors, students will:
• Learn the same skills as in Trigonometry/Functions, but at a more advanced and rigorous level. Per the AP Central College Board’s website, “Pre-AP is based on the following two important premises. The first is the expectation that all students can perform well at rigorous academic levels. The second important premise of Pre-AP is the belief that we can prepare every student for higher intellectual engagement by starting the development of skills and acquisition of knowledge as early as possible.” (apcentral.collegeboard.com)

PRE CALCULUS PRE AP
BHS, MVHS, TVHS
Credit: 1.0 Math
Recommended: Algebra 2

In Calculus Pre AP, students will:
• Learn the same skills as in Trigonometry/Functions, but at a more advanced and rigorous level. Per the AP Central College Board’s website, “Pre-AP is based on the following two important premises. The first is the expectation that all students can perform well at rigorous academic levels. The second important premise of Pre-AP is the belief that we can prepare every student for higher intellectual engagement by starting the development of skills and acquisition of knowledge as early as possible.” (apcentral.collegeboard.com)

COLLEGE ALGEBRA
TVHS
Credit: 1.0 Math
Recommended: Qualifying Test Scores
If student has met the Math graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
* College credit may be available

In College Algebra, students will:
This course will include a brief review of intermediate algebra, equations, and inequalities, functions and their graphs, exponential and logarithmic functions, linear and non-linear systems and conic sections. Qualifying test score required to take this college course.
DATA ANALYSIS
BHS, MVHS
Credit: .50 Math

In Data Analysis, students will:
• use graphs (scatter plots, circle, bar, box, stem and leaf)
• create appropriate graphs using relevant data sets
• be able to calculate and interpret a variance standards deviation for data sets
• calculate measures of central tendency including mean, median, mode, range
• create a linear regression line of best fit for data
• demonstrate use of major concepts in data analysis using an oral presentation with presentational software

GEOMETRY
BHS, FHS, LHS, MVHS, TVHS
Credit: 1.0 Math
Recommended: Algebra 1

In Geometry courses, student will:
Emphasize a balanced combination of procedure and conceptual understanding focusing on five critical areas:
• using transformations to mathematically analyze and describe objects in the plane
• developing concepts of similarity which are foundational to geometry and its applications
• algebraically describing and analyzing objects in the plane
• measuring and quantifying attributes of two- and three-dimensional objects
• using geometric concepts to model real world objects

This critical content will be engaged by use of eight mathematical practice standards to facilitate students’ ability to transfer and apply their mathematical knowledge to new and novel situations.

GEOMETRY PRE AP
MVHS, TVHS
Credit: 1.0 Math
Recommended: Algebra 1

In Geometry Pre AP, students will:
• learn the same skills as in Geometry, but at a more advanced and rigorous level. Per the AP Central College Board’s website, “Pre-AP is based on the following two important premises. The first is the expectation that all students can perform well at rigorous academic levels. The second important premise of Pre-AP is the belief that we can prepare every student for higher intellectual engagement by starting the development of skills and acquisition of knowledge as early as possible”. (apcentral.collegeboard.com)

GEOMETRY HONORS
LHS, MVHS, TVHS
Credit: 1.0 Math
Recommended: Algebra 1

In Geometry Honors, students will:
• learn the same skills as in Geometry, but at a more advanced and rigorous level. The first is the expectation that all students can perform well at rigorous academic levels. The second important premise of Honors level is the belief that we can prepare every student for higher intellectual engagement by starting the development of skills and acquisition of knowledge.
Mathematics

GEOMETRY IN CONSTRUCTION
- Geometry 2024, 2025
- Construction 8314, 8315
LHS
Credit: 1.0 Math and 1.0 Applied Arts
Credit: 1.0 Math and 1.0 Career Pathway Elective (Class of 2021-2023)
Recommended: Algebra 1
Pathway: Architecture and Construction - STEM, Arts, Design and Information Technology

In Geometry in Construction, students will:
• be exposed to construction careers such as engineering, architecture, construction management, interior design, landscape architecture, and surveying
• learn safety, problem-solving tool use, and drawing interpretation
• understand the interrelation of geometry and construction
• use coordinate geometry in the study of area, perimeter, volume, transformations, congruence, and functions

PHYSICS WITH TRIGONOMETRY/FUNCTIONS
- Trigonometry/Functions Integrated 2076, 2077
- Physics Integrated 3076, 3077
TVHS
Credit: 1.0 Math and 1.0 Science
If student has met either the Math or Science graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Recommended: Algebra 2

In Physics with Trigonometry/Functions, students will:
• explore relationships between trigonometric, polynomial, exponential and logarithmic functions, and motion, energy, relativity, and light
• apply learning through projects like catapults, lasers, rockets, and bridges
• graph and solve relationships of mathematical functions
• solve equations, use trigonometric identities and vectors in real-world applications

PROBLEM SOLVING STRATEGIES 2100
BHS, MVHS, TVHS
Credit: .50 Math
Recommended: Algebra 2

In Problem Solving Strategies, students will:
• solve non-routine math problems using a variety of strategies: matrix logic, systematic lists, unit analysis, and Venn diagrams
• improve in communication of mathematics in written and verbal form
• increase their confidence and skills as a problem solver
AP STATISTICS 2102, 2103
BHS, LHS, MVHS, TVHS
Credit: 1.0 Math

If student has met the Math graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Recommended: Algebra 2 (with teacher recommendation)
Fee: Student will pay for textbook

In AP Statistics, students will:
• be introduced to the major concepts and tools for collecting, analyzing, and drawing conclusions from data
• plan a study: decide what and how to measure
• explore data: observe patterns and departures from data
• anticipate patterns: produce models using probability and simulation
• have the opportunity to test out of college statistics course

TRIGONOMETRY/FUNCTIONS 2060, 2061
BHS, MVHS, TVHS
Credit: 1.0 Math
Recommended: Algebra 2

In Trigonometry/Functions students will:
• describe transformations and graph various functions and conic sections
• use identities to solve and graph trigonometric functions
• graph and solve various polynomial, exponential, and logarithmic functions
• solve systems of equations
Music

Any class with an asterisk (*) may meet outside of traditional school hours, please contact your school for more details.

CHAMBER SINGERS 6022, 6023
LHS, MVHS, TVHS
Credit: 1.0 Fine Arts
Recommended: Audition and/or instructor approval
Fee: $15 per semester

In Chamber Singers, students will:
- demonstrate a knowledge of vocal production and choral techniques
- perform a spectrum of music from the Medieval Period, the Renaissance, choral works of the Baroque, Classical, and Romantic composers, and the 20th century
- attend all choral performances
- determine concert attire with the ensemble and director
- perform music which reflects all musical style periods and the musical heritage of the large mixed chorus

CHAMBER STRINGS 6026, 6027
LHS, TVHS

CHAMBER STRINGS 6126, 6127
MVHS
Credit: 1.0 Fine Arts
Recommended: Audition and/or instructor permission
Fee: $15 per semester

In Chamber Strings, students will:
- demonstrate a higher level of musicianship and responsibility
- concentrate on music written for the chamber ensemble and full orchestra ensemble
- demonstrate a knowledge of orchestral techniques and fundamentals
- attend all scheduled performances

CONCERT BAND 6000, 6001
LHS, TVHS
Credit: 1.0 Fine Arts
Recommended: Eighth Grade Band or Instructor Approval
Fee: $15 per semester and $5 travel fee per trip

In Concert Band, students will:
- develop independent rhythmic proficiency
- demonstrate an understanding of key signatures, scales, and the chromatic scale
- perform appropriate music literature for their ability level
- participate in all scheduled performances
Music

Any class with an asterisk (*) may meet outside of traditional school hours, please contact your school for more details

<table>
<thead>
<tr>
<th>Course</th>
<th>Code(s)</th>
<th>School(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONCERT/MARCHING BAND</td>
<td>6052, 6053</td>
<td>BHS, MVHS</td>
</tr>
<tr>
<td>CONCERT/MARCHING BAND</td>
<td>6152, 6153</td>
<td>MVHS</td>
</tr>
<tr>
<td><strong>Credit:</strong> Fine Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Recommended:</strong> Eighth Grade Band or Instructor Approval</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fee:</strong> $15 per semester plus $10 uniform cleaning and $5 travel fee per trip</td>
<td></td>
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</tr>
</tbody>
</table>

**In Concert/Marching Band, students will:**
- develop independent rhythmic proficiency
- demonstrate an understanding of key signatures, scales, and the chromatic scale
- perform appropriate music literature for their ability level
- participate in all scheduled performances
- music memorization skills
- reading and applying drill charts
- showmanship and esprit de corps
- marching and maneuvering skills
- participate in all scheduled performances, including a summer band camp

<table>
<thead>
<tr>
<th>Course</th>
<th>Code(s)</th>
<th>School(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONCERT/MARCHING BAND 2</td>
<td>6058, 6059</td>
<td>BHS</td>
</tr>
<tr>
<td><strong>Credit:</strong> Fine Arts Semester 1 and .50 Fitness Semester 2</td>
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</tr>
<tr>
<td><strong>Fee:</strong> $15 per semester plus $10 uniform cleaning and $5 travel fee per trip</td>
<td></td>
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</tbody>
</table>

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<thead>
<tr>
<th>Course</th>
<th>Code(s)</th>
<th>School(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONCERT/MARCHING BAND 3</td>
<td>6060, 6061</td>
<td>BHS</td>
</tr>
<tr>
<td><strong>Credit:</strong> Fine Arts (Classes Prior to 2021)</td>
<td></td>
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</tr>
<tr>
<td><strong>Credit:</strong> Career Pathway Advanced Elective (Class of 2021-2023)</td>
<td></td>
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<tr>
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<tr>
<th>Course</th>
<th>Code(s)</th>
<th>School(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONCERT/MARCHING BAND 4</td>
<td>6062, 6063</td>
<td>BHS</td>
</tr>
<tr>
<td><strong>Credit:</strong> Fine Arts (Classes Prior to 2021)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Credit:</strong> Career Pathway Advanced Elective (Class of 2021-2023)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fee:</strong> $15 per semester plus $10 uniform cleaning and $5 travel fee per trip</td>
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<tr>
<th>Course</th>
<th>Code(s)</th>
<th>School(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTRODUCTION TO GUITAR</td>
<td>6044</td>
<td>FHS, MVHS, TVHS</td>
</tr>
<tr>
<td><strong>Credit:</strong> Fine Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Recommended:</strong> Instructor approval</td>
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</tr>
</tbody>
</table>

**In Introduction to Guitar, students will:**
- determine a course of study (with the instructor) relative to their personal skill level on guitar
- demonstrate knowledge of proper posture and hand position as well as scales, chords, rhythm, and accompaniment styles
- perform solo and/or ensemble literature appropriate for their skill level on guitar
- attend all scheduled performances
**Music**

*Any class with an asterisk (*) may meet outside of traditional school hours, please contact your school for more details*

**JAZZ ENSEMBLE 3 Beginning**  
6038, 6039  
TVHS  
Credit: 1.0 Fine Arts  
Recommended: Audition and/or instructor approval  
Fee: $15 per semester plus $5 travel fee

*In Jazz Ensemble 3, students will:*
- develop basic skills in the knowledge of jazz theory, including scales, rhythms, and chords
- develop and perform basic jazz articulations appropriate to a variety of jazz styles
- develop basic improvisation skills
- perform appropriate, basic jazz literature to develop jazz performance technique
- participate in all scheduled performances

**JAZZ ENSEMBLE 2 Intermediate**  
6004, 6005  
LHS, MVHS, TVHS  
Credit: 1.0 Fine Arts (Class of 2018-2021)  
Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)  
Recommended: Instructor approval and membership in Concert Band, Symphonic Band, or Wind Ensemble  
Fee: $15 per semester plus $5 travel fee per trip

*In Jazz Ensemble 2, students will:*
- demonstrate knowledge of basic jazz theory, including scales and chords
- perform articulations appropriate to a variety of jazz styles
- develop basic improvisation skills
- perform appropriate literature for their ability level
- participate in all scheduled performances

**JAZZ ENSEMBLE 1 Advanced**  
6006, 6007  
BHS, LHS, TVHS  
*JAZZ ENSEMBLE 1 Advanced*  
6106, 6107  
MVHS  
Credit: 1.0 Fine Arts (Class of 2018-2021)  
Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)  
Recommended: Instructor approval, audition, and membership in Concert Band, Symphonic Band, or Wind Ensemble  
Fee: $15 per semester plus $5 travel fee per trip

*In Jazz Ensemble 1, students will:*
- perform with appropriate technique and musicianship in a variety of jazz styles and idioms
- further develop improvisation skills including appropriate chord changes and scales
- perform appropriate literature for their ability level
- participate in all scheduled performances
Music

Any class with an asterisk (*) may meet outside of traditional school hours, please contact your school for more details.

**MARCHING BAND**

6008

TVHS, LHS

Credit: .50 Fine Arts

Recommended: Contact your Band Director for approval and guidance around registration

Fee: $11 per semester plus $10 uniform cleaning and $5 travel fee per trip

*In Marching Band, students will learn:

- music memorization skills
- reading and applying drill charts
- showmanship and esprit de corps
- marching and maneuvering skills
- participate in all scheduled performances, including a summer band camp

**MARCHING BAND 2**

6048

TVHS, LHS

Credit: .50 Fine Arts or Fitness

Recommended: Contact your Band Director for approval and guidance around registration

Fee: $11 per semester plus $10 uniform cleaning and $5 travel fee per trip

*In Marching Band 2, students will continue to learn:

- music memorization skills
- reading and applying drill charts
- showmanship and esprit de corps
- marching and maneuvering skills
- participate in all scheduled performances, including a summer band camp

**MARCHING BAND 3**

6049

TVHS, LHS

Credit: .50 Fine Arts (Classes Prior to 2021)

Credit: .50 Career Pathway Advanced Elective (Class of 2021-2023)

Recommended: Contact your Band Director for approval and guidance around registration.

Fee: $11 per semester plus $10 uniform cleaning and $5 travel fee per trip

*In Marching Band 3, students will continue to learn:

- music memorization skills
- reading and applying drill charts
- showmanship and esprit de corps
- marching and maneuvering skills
- participate in all scheduled performances, including a summer band camp
## Music

*Any class with an asterisk (*) may meet outside of traditional school hours, please contact your school for more details*

### MEN'S CHOIR

<table>
<thead>
<tr>
<th>Class</th>
<th>Credit</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>6014, 6015</td>
<td>1.0 Fine Arts</td>
<td>$15 per semester</td>
</tr>
</tbody>
</table>

BHS, LHS, TVHS

MVHS

In Men's Choir students will:
- perform literature written expressly for men's voices
- perform literature from all style periods and the learning of foreign languages
- demonstrate proper diction, vocal production, breathing, posture, rhythmic accuracy, and intonation
- attend all choral performances
- determine concert attire with the ensemble and director

### MIXED CHOIR

<table>
<thead>
<tr>
<th>Class</th>
<th>Credit</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>6016, 6017</td>
<td>1.0 Fine Arts</td>
<td>$15 per semester</td>
</tr>
</tbody>
</table>

BHS, FHS, LHS, TVHS

MVHS

Recommended: Audition or instructor approval only at LHS

In Mixed Choir, students will:
- demonstrate a basic knowledge and application of mixed choral music
- perform literature from all style periods and the learning of foreign language
- demonstrate proper diction, vocal production, breathing, posture, rhythmic accuracy, and intonation
- attend all choral performances
- determine concert attire with the ensemble and director

### MUSIC ENSEMBLE

<table>
<thead>
<tr>
<th>Class</th>
<th>Credit</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>6042, 6043</td>
<td>1.0 Fine Arts</td>
<td>$15</td>
</tr>
</tbody>
</table>

LHS

Recommended: Membership in band, choir, orchestra, or instructor approval

In Music Ensemble, students will:
- determine the type of ensemble to be formed
- perfect the skills of aural sensitivity to intonation, balance, blend, tonal beauty, phrasing, and musicianship
- make artistic and logistical decisions about rehearsals and performances
- attend all scheduled performances
**Music**

*Any class with an asterisk (*) may meet outside of traditional school hours, please contact your school for more details*

### MUSIC EXPLORATION

**6078**

**FHS**

Credit: .25 Fine Arts per quarter

Fee: $15 per semester or $7.5 per quarter

Prerequisites: None

In Music Exploration students will:

- demonstrate basic knowledge of music theory
- develop basic vocal techniques and solfège skills
- play together as an ensemble
- understand the foundation for music history from the baroque period to present day
- demonstrate the basics of playing guitar and various other instruments

### MUSIC THEORY

**6009**

**BHS, FHS, LHS, MVHS**

Credit: .50 Fine Arts

If student has met the Fine Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)

Recommended: Basic music-reading ready recommended and approval of the instructor

* College credit may be available

In Music Theory, students will:

- demonstrate knowledge of scales and modes
- develop ear training and diction skills
- study the notation of pitch, rhythm, tonality, chord structure, and terminology

### MUSIC THEORY 2

**XXXX**

**FHS**

Credit: .50 Fine Arts

If student has met the Fine Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)

Recommended: Basic music-reading ready recommended and approval of the instructor

* College credit may be available

In Music Theory, students will:

- demonstrate knowledge of scales and modes
- develop ear training and diction skills
- study the notation of pitch, rhythm, tonality, chord structure, and terminology
Music

Any class with an asterisk (*) may meet outside of traditional school hours, please contact your school for more details

AP MUSIC THEORY

LHS, MVHS, TVHS
Credit: 1.0 Fine Arts

*If student has met the Fine Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*

Recommended: A strong background of music theory recommended and approval of the instructor
Fee: Student pays for textbook and AP Exam

In AP Music Theory, students will:
- sight sing and perform own compositions
- understand modes, scales, harmony, time signature, key signature, intervals, and chord progression
- compose using figured-bass symbols and/or Roman numbers, bass line and an original melody
- analyze harmonic procedures, rhythmic metric, and melodic organization and development procedure

*MUSICAL THEATRE*

MVHS
Credit: .50 Fine Arts

*If student has met the Fine Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*

Recommended: taken Acting Techniques and have previous choral experience or instructor approval
Fee: $15

In Musical Theatre Production, students will:
- explore the history of musical theatre, costume design, set design, and production
- gain skills necessary to become a triple threat (actor-singer-dancer) by studying each area
- be required to participate in the spring musical (rehearsals and meetings outside of class time will be required closer to the opening of the show)
- have a contextual learning opportunity for students interested in all aspects of theatre production from onstage and backstage responsibilities to marketing and publicity

MUSICAL THEATRE TECHNIQUES

TVHS

MVHS
Credit: .50 Fine Arts
Fee: $15

In Musical Theatre Techniques, students will:
- be exposed to the diverse world of musical theatre
- develop skills to prepare auditions and performances, create characters and respond critically to all arts presentations
- perfect at least four pieces of their choice and create an “end of the semester showcase”
### ORCHESTRA
BHS, LHS, TVHS

**Credit**: 1.0 Fine Arts

**Recommended**: At least two years’ previous orchestral experience and/or instructor approval

**Fee**: $15 per semester

*In Orchestra, students will:*
- perform a wide variety of music for both string and full orchestra
- demonstrate a knowledge of orchestral techniques and fundamentals
- attend all scheduled performances

### INTRODUCTION TO PIANO
MVHS

**Credit**: .50 Fine Arts

**Recommended**: Instructor approval

*In Introduction to Piano, students will:*
- determine a course of study (with the instructor) relative to their personal skill level on piano
- demonstrate knowledge of proper posture and hand position as well as scales, chords, rhythm, and accompaniment styles
- perform solo and/or ensemble literature appropriate for their skill level on piano
- attend all scheduled performances

### *SHOW/JAZZ CHOIR*
BHS, LHS, TVHS

**Credit**: 1.0 Fine Arts (Class of 2018-2021)

**Credit**: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)

**Recommended**: Instructor approval, audition AND membership in Chamber, Mixed, Men’s or Women’s Choir (BHS – audition only)

**Fee**: $15 per semester

*In Show/Jazz Choir, students will:*
- demonstrate knowledge of proper vocal production and choral techniques
- demonstrate stage presence, performance experience, team building and showmanship
- perform various styles of 20th century popular music: musical theater, vocal jazz, and contemporary pop/rock styles
- attend all choral performances
- determine concert attire and attend performances
## Music

*Any class with an asterisk (*) may meet outside of traditional school hours, please contact your school for more details*

### SYMPHONIC BAND

<table>
<thead>
<tr>
<th>Code</th>
<th>LHS, TVHS</th>
<th>Credit</th>
<th>Recommended</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>6002, 6003</td>
<td></td>
<td>1.0 Fine Arts</td>
<td>Audition and/or instructor approval</td>
<td>$15 per semester plus $10 uniform cleaning and $5 travel fee per trip</td>
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</tbody>
</table>

*In Symphonic Band, students will:*
- further develop technical skills and sight reading techniques
- develop aural sensitivity specific to intonation, balance, blend, and tonal beauty
- perform appropriate music literature for their ability level
- participate in all scheduled performances

### SYMPHONIC/MARCHING BAND

<table>
<thead>
<tr>
<th>Code</th>
<th>BHS, MVHS</th>
<th>Credit</th>
<th>Recommended</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>6054, 6055</td>
<td></td>
<td>1.0 Fine Arts</td>
<td>Audition and/or instructor approval</td>
<td>$15 per semester plus $10 uniform cleaning and $5 travel fee per trip</td>
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</tbody>
</table>

*In Symphonic / Marching Band, students will:*
- further develop technical skills and sight reading techniques
- develop aural sensitivity specific to intonation, balance, blend, and tonal beauty
- perform appropriate music literature for their ability level
- participate in all scheduled performances
- reading and applying drill charts
- showmanship and esprit de corps
- marching and maneuvering skills
- participate in all scheduled performances, including a summer band camp

### SYMPHONIC/MARCHING BAND 2

<table>
<thead>
<tr>
<th>Code</th>
<th>BHS, MVHS</th>
<th>Credit</th>
<th>Recommended</th>
<th>Fee</th>
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<tbody>
<tr>
<td>6064, 6065</td>
<td></td>
<td>.50 Fine Arts Semester 1 and .50 Fitness Semester 2</td>
<td>Audition and/or instructor approval</td>
<td>$15 per semester plus $10 uniform cleaning and $5 travel fee per trip</td>
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### SYMPHONIC / MARCHING BAND 3

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<th>Credit</th>
<th>Recommended</th>
<th>Fee</th>
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<tbody>
<tr>
<td>6066, 6067</td>
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<td>1.0 Fine Arts (Classes Prior to 2021)</td>
<td>Audition and/or instructor approval</td>
<td>$15 per semester plus $10 uniform cleaning and $5 travel fee per trip</td>
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### SYMPHONIC / MARCHING BAND 4

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<tr>
<th>Code</th>
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<th>Credit</th>
<th>Recommended</th>
<th>Fee</th>
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<tbody>
<tr>
<td>6068, 6069</td>
<td></td>
<td>1.0 Fine Arts (Classes Prior to 2021)</td>
<td>Audition and/or instructor approval</td>
<td>$15 per semester plus $10 uniform cleaning and $5 travel fee per trip</td>
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## Music

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### WIND ENSEMBLE

<table>
<thead>
<tr>
<th>Class</th>
<th>Credit</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>6036, 6037</td>
<td>1.0 Fine Arts</td>
<td>$15 per semester plus $10 uniform cleaning and $5 travel fee per trip</td>
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</tbody>
</table>

**In Wind Ensemble, students will:**
- develop the highest level of technical skills and sight reading techniques
- perfect the skills of aural sensitivity specific to intonation, balance, blend, tonal beauty, phrasing, and musicianship
- demonstrate an understanding of music history, varying styles of music, and music theory
- participate in all scheduled performances

### WIND ENSEMBLE/MARCHING BAND

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<thead>
<tr>
<th>Class</th>
<th>Credit</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>6056, 6057</td>
<td>1.0 Fine Arts</td>
<td>$15 per semester plus $10 uniform cleaning and $5 travel fee per trip</td>
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</table>

**In Wind Ensemble/Marching Band, students will:**
- develop the highest level of technical skills and sight reading techniques
- perfect the skills of aural sensitivity specific to intonation, balance, blend, tonal beauty, phrasing, and musicianship
- demonstrate an understanding of music history, varying styles of music, and music theory
- participate in all scheduled performances
- reading and applying drill charts
- showmanship and esprit de corps
- marching and maneuvering skills
- participate in all scheduled performances, including a summer band camp

### WIND ENSEMBLE/MARCHING BAND 2

<table>
<thead>
<tr>
<th>Class</th>
<th>Credit</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>6070, 6071</td>
<td>.50 Fine Arts Semester 1 and .50 Fitness Semester 2</td>
<td>$15 per semester plus $10 uniform cleaning and $5 travel fee per trip</td>
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### WIND ENSEMBLE/MARCHING BAND 3

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<th>Class</th>
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<th>Fee</th>
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<tbody>
<tr>
<td>6072, 6073</td>
<td>1.0 Fine Arts (Classes Prior to 2021)</td>
<td>$15 per semester plus $10 uniform cleaning and $5 travel fee per trip</td>
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### WIND ENSEMBLE/MARCHING BAND 4

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<tr>
<th>Class</th>
<th>Credit</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>6074, 6075</td>
<td>1.0 Fine Arts (Classes Prior to 2021)</td>
<td>$15 per semester plus $10 uniform cleaning and $5 travel fee per trip</td>
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### Music

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<th>WOMEN’S CHOIR</th>
<th>6012, 6013</th>
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<tbody>
<tr>
<td>BHS, LHS, TVHS</td>
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<table>
<thead>
<tr>
<th>WOMEN’S CHOIR</th>
<th>6112, 6113</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVHS</td>
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</tbody>
</table>

**WOMEN’S CHOIR**
- Credit: 1.0 Fine Arts
- Recommended: Audition or instructor approval only at TVHS
- Fee: $15 per semester

*In Women’s Choir, students will:*
- perform literature written expressly for women’s voices
- perform literature from all style periods and the learning of foreign languages
- demonstrate proper diction, vocal production, breathing, posture, rhythmic accuracy, and intonation
- attend all choral performances
- determine concert attire with the ensemble and director

<table>
<thead>
<tr>
<th>WOMEN’S CHOIR ADVANCED</th>
<th>6018, 6019</th>
</tr>
</thead>
<tbody>
<tr>
<td>LHS, TVHS</td>
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<table>
<thead>
<tr>
<th>WOMEN’S CHOIR ADVANCED</th>
<th>6118, 6119</th>
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</thead>
<tbody>
<tr>
<td>MVHS</td>
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</tbody>
</table>

**WOMEN’S CHOIR ADVANCED**
- Credit: 1.0 Fine Arts (Class of 2018-2021)
- Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)
- Recommended: Audition and/or instructor approval
- Fee: $15 per semester

*In Women’s Choir Advanced, students will:*
- demonstrate a higher level of basic principles of choral techniques listed in the previous course descriptions
- develop their vocal skills more dramatically by means of more challenging literature and a greater emphasis on vocal production
- perform music which reflects all musical style periods and the musical heritage of the large mixed chorus
- attend all choral performances
- determine concert attire
Physical Education

AQUATICS and FITNESS 7626
LHS, MVHS, TVHS
Credit: .50 Fitness

In Aquatics students will:
- learn five basic swimming strokes, practice water safety and survival skills, improve their aquatic fitness, and participate in recreational activities
- complete and turn in a comprehensive personal fitness plan that includes setting goals, keeping an activity log and reflecting on their experience

FITNESS 7600
BHS, FHS, LHS, MVHS, TVHS
Credit: .50 Fitness

In Fitness, students will:
- demonstrate competent skills in a variety of sports and activities
- demonstrate the knowledge necessary to perform a variety of sports and physical activities
- demonstrate the knowledge and skills necessary to participate in regular fitness activities
- demonstrate responsible behavior (sportsmanship, teamwork, attitude, effort, enthusiasm, and proper attire) in a physical activity setting
- complete and turn in a comprehensive personal fitness plan that includes setting goals, keeping an activity log and reflecting on their experience

JROTC - LEVEL 1 8618, 8619
BHS, LHS, MVHS, TVHS
Credit: .50 Fitness Semester 1 and .50 Social Studies (Civics Requirement) Semester 2
Fee: $25 per semester

In JROTC 1, students will:
- participate in Leadership Education and Training I consisting of effective communication techniques, Presidential Physical Fitness Program, basic leadership skills, drug abuse prevention, basic nutrition, citizenship through history, drill, and ceremonies, community service and US Civics topics.

NUTRITION AND WELLNESS 8020
BHS, LHS, MVHS, TVHS
Credit: .50 Applied Arts or Fitness Credit (Classes Prior to 2021)
Credit: .50 Career Pathway Elective or Fitness (Class of 2021-2023)
Fee: $25 per semester
Pathway: Life Skills - Hospitality, Human Services and Education

In Nutrition and Wellness, students will:
- develop a fitness/wellness plan
- increase understanding of wellness as a lifestyle
- understand importance of exercise and fitness, nutrition, and consumer products and services
- implement healthy nutritional choices
- integrate science principles related to nutrition
- participate in fitness activities
- practice wise consumer decisions
**Physical Education**

**TEAM SPORTS AND FITNESS**

BHS, LHS, MVHS, TVHS  
Credit: .50 Fitness

*In Team Sports and Fitness, students will:*
- become proficiently skilled in team games, e.g., team handball, soccer, softball, indoor hockey, touch football, volleyball, basketball, ultimate Frisbee, etc.
- know and understand the rules, techniques, and safety expectations of the activities
- participate in lifetime team activities
- demonstrate an understanding of fitness concepts by participating in warm-up and cool-down activities
- complete and turn in a comprehensive personal fitness plan that includes setting goals, keeping an activity log and reflecting on their experience

**WEIGHT TRAINING 1 AND FITNESS**

- Men’s Weights & Fitness  
- Women’s Weights & Fitness

BHS, LHS, MVHS, TVHS  
Credit: .50 Fitness

*In Weight Training 1, students will:*
- develop skills and knowledge in weight lifting and muscle toning exercises so that they can safely and successfully lift weights as a recreational activity or to utilize their weight lifting knowledge in pursuit of specific goals for personal or athletic improvement
- develop the knowledge about safety, spotting techniques, muscles and their movement, cardiovascular conditioning, and work ethic
- complete and turn in a comprehensive personal fitness plan that includes setting goals, keeping an activity log and reflecting on their experience
### ASTRONOMY/METEOROLOGY
FHS, LHS, MVHS, TVHS  
Credit: .50 Science

*In Astronomy/Meteorology, students will:*
- study astronomy through the explanation of orbits, optics, constellations, and galaxies
- investigate theories of origin of the universe
- understand fronts and weather systems
- utilize weather maps for weather prediction

### BIOLOGY
BHS, FHS, LHS, MVHS, TVHS  
Credit: 1.0 Science

*In Biology, students will:*
- meet selected state standards through the study of scientific method, cell biology, classification, genetics, ecology, and science and technology
- satisfy graduation requirement

### BIOLOGY PRE AP
BHS, MVHS, TVHS  
Credit: 1.0 Science

*In Biology Pre AP, students will:*
- meet selected state standards through the study of scientific method, cell biology, classification, genetics, ecology, and science and technology
- satisfy graduation requirement
- learn the same skills as in Biology, but at a more advanced and rigorous level. Per the AP Central College Board’s website, “Pre-AP is based on the following two important premises. The first is the expectation that all students can perform well at rigorous academic levels. The second important premise of Pre-AP is the belief that we can prepare every student for higher intellectual engagement by starting the development of skills and acquisition of knowledge as early as possible.” ([apcentral.collegeboard.com](http://apcentral.collegeboard.com))

### BIOLOGY HONORS
LHS  
Credit: 1.0 Science  
Recommended:  Biology and Chemistry  
Fee:  Student pays for textbook

*In Biology Honors, students will:*
- meet selected state standards through the study of scientific method, cell biology, classification, genetics, ecology, and science and technology
- satisfy graduation requirement
- learn the same skills as in Biology, but at a more advanced and rigorous level. Per the AP Central College Board’s website, “Pre-AP is based on the following two important premises. The first is the expectation that all students can perform well at rigorous academic levels. The second important premise of Pre-AP is the belief that we can prepare every student for higher intellectual engagement by starting the development of skills and acquisition of knowledge as early as possible.” ([apcentral.collegeboard.com](http://apcentral.collegeboard.com))
Science

AP BIOLOGY 3026, 3027
BHS, LHS, MVHS, TVHS
Credit: 1.0 Science

*If student has met the Science graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*

Recommended: Biology and Chemistry
Fee: Student pays for textbook

*College credit may be available*

Pathway: [Agricultural Science](#) - Agriculture, Food and Natural Resources

In AP Biology, students will:
- explore topics that include cellular biology, biochemistry, genetics, comparative anatomy, botany, ecology and spectrophotometric analysis
- explore related careers through projects and classroom discussion
- have the opportunity to prepare for the AP Biology test and receive college credit

BIOTECHNOLOGY 3034
TVHS
Credit: .50 Science

*If student has met the Science graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*

Recommended: Biology and Chemistry
Fee: Student pays for textbook

In Biotechnology, students will:
- get a comprehensive introduction to the scientific concepts and laboratory research techniques currently used in the field of biotechnology
- develop the laboratory, critical thinking, and communication skills currently used in the biotechnology industry

CHEMISTRY 3040, 3041
BHS, FHS, LHS, MVHS, TVHS
Credit: 1.0 Science
Recommended: Algebra 1

* Sophomores with a strong interest in science may take Chemistry and Biology concurrently by teacher recommendation only*

In Chemistry, students will:
- use small scale and traditional labs and classroom discussion to learn about elements, atoms, bonding and formulas, reactions, solutions, acids and bases

CHEMISTRY PRE AP 3042, 3043
BHS, MVHS, TVHS
Credit: 1.0 Science
Recommended: BHS recommends Pre AP Geophysical

In Chemistry Pre AP, students will:
- explore an in-depth, comprehensive approach to Chemistry
- cover topics such as atomic theory, periodicity, gases, solution chemistry, thermochemistry, chemical bonding, molecular geometry, and intermolecular forces as well as applied calculations
<table>
<thead>
<tr>
<th>Science</th>
</tr>
</thead>
</table>

**CHEMISTRY HONORS**  
LHS  
Credit: 1.0 Science  
Recommended: Pre AP Chemistry and Algebra II  
Fee: Student pays for textbook.

*In Chemistry Honors, students will:*
- explore an in-depth, comprehensive approach to Chemistry
- cover topics such as atomic theory, periodicity, gases, solution chemistry, thermochemistry, chemical bonding, molecular geometry, and intermolecular forces as well as applied calculations

**AP CHEMISTRY**  
BHS, LHS, MVHS, TVHS  
Credit: 1.0 Science  
*If student has met the Science graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*  
Recommended: Pre AP Chemistry and Algebra II  
Fee: Student pays for textbook.

*In AP Chemistry, students will:*
- study the equivalent, in both class work and lab work, of a first year college Chemistry course
- have the opportunity to prepare for the AP Chemistry test and receive college credit

**ENVIRONMENTAL SCIENCE**  
BHS, FHS, LHS, MVHS, TVHS  
Credit: 1.0 Science  
*If student has met the Science graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*  
Recommended: Biology

*In Environmental Science, students will:*
- explore aspects of land, water, wildlife, and human dimensions as related to the science of ecology and natural resources
- evaluate the relationships between science, technology, and human activity and how they can affect the world

**AP ENVIRONMENTAL SCIENCE**  
BHS, LHS, TVHS  
Credit: 1.0 Science  
*If student has met the Science graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*  
Recommended: Biology and/or Chemistry  
Fee: Student pays for textbook

*In AP Environmental Science, students will:*
- study the equivalent, in both class work and labs, of a one semester introductory college level Environmental Science class
- have the opportunity to prepare for the AP Environmental Science test and receive credit
**ENVIRONMENTAL SUSTAINABILITY**

<table>
<thead>
<tr>
<th>BHS</th>
<th>Credit: 1.0 Science</th>
</tr>
</thead>
</table>

**If student has met the Science graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)**

Recommended: Biology

Fee: $30 per semester

Pathway: Project Lead the Way / Engineering – STEM, Arts, Design and Information Technology

*College credit may be available*

In Environmental Sustainability, students will:
- investigate and design solutions to solve real-world challenges including: world food security, renewable energy, and clean drinking water
- apply scientific and technical knowledge using an engineering design process and have the opportunity to help solve global challenges by creating and testing solutions such as genetically engineered bacteria, producing fuel from plants, and designs for emergency water filtration in disaster areas

**FORENSIC SCIENCE**

<table>
<thead>
<tr>
<th>TVHS</th>
<th>Credit: .50 Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHS</td>
<td>Credit: .25 Science</td>
</tr>
</tbody>
</table>

In Forensic Science, students will:
- meet selected state standards through the study of scientific method, cell biology, genetics, and science and technology
- use small scale and traditional labs and classroom discussion to learn about reactions
- learn about motion
- study structures and functions of human anatomy
- explore career relevance for those interested in health-related careers

**GENETICS**

| BHS, LHS, MVHS, TVHS | Credit: .50 Science |

**If student has met the Science graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)**

Recommended: Biology

In Genetics, students will:
- use laboratories and projects to understand the areas of classical and applied genetics through the topics of inheritance patterns/probabilities, biotechnology, chromosomal inheritance, and human genetics
- explore related careers through projects and classroom discussion
### Science

#### GEOPHYSICAL LAB
BHS, FHS, LHS, MVHS, TVHS  
Credit: 1.0 Science

**In Geophysical Lab, students will:**
- investigate astronomy, meteorology, hydrology, geology, paleontology, chemistry, physics with
- quantitatively analyze the above subjects with introductory concepts and tools from chemistry and physics, to increase critical skills

#### GEOPHYSICAL LAB PRE AP
BHS, MVHS, TVHS  
Credit: 1.0 Science

**In Geophysical Lab Pre AP, students will:**
- learn the same skills as in Geophysical Lab Science, but at a more advanced and rigorous level.  
  Per the AP Central College Board’s website, “Pre-AP is based on the following two important premises. The first is the expectation that all students can perform well at rigorous academic levels. The second important premise of Pre-AP is the belief that we can prepare every student for higher intellectual engagement by starting the development of skills and acquisition of knowledge as early as possible.” ([apcentral.collegeboard.com](http://apcentral.collegeboard.com))

#### GEOPHYSICAL LAB HONORS
BHS, LHS, MVHS, TVHS  
Credit: 1.0 Science

**In Geophysical Lab Honors, students will:**
- learn the same skills as in Geophysical Lab Science, but at a more advanced and rigorous level.  
  Per the AP Central College Board’s website, “Pre-AP is based on the following two important premises. The first is the expectation that all students can perform well at rigorous academic levels. The second important premise of Pre-AP is the belief that we can prepare every student for higher intellectual engagement by starting the development of skills and acquisition of knowledge as early as possible.” ([apcentral.collegeboard.com](http://apcentral.collegeboard.com))

#### HUMAN ANATOMY AND PHYSIOLOGY 1
BHS, FHS, LHS, MVHS, TVHS  
Credit: .5 0 Science

**If student has met the Science graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)**

**Recommended:** Biology

**In Human Anatomy and Physiology 1, students will:**
- study structures and functions of human anatomy through a hands-on lab-oriented approach
- be required to complete a dissection
- explore career relevance for those interested in health-related careers
<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HUMAN ANATOMY AND PHYSIOLOGY 2</strong></td>
<td>3065</td>
</tr>
<tr>
<td>BHS, LHS, MVHS, TVHS</td>
<td></td>
</tr>
<tr>
<td><strong>Credit:</strong> .50 Science</td>
<td></td>
</tr>
<tr>
<td><strong>If student has met the Science graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Recommended:</strong> Human Anatomy and Physiology 1</td>
<td></td>
</tr>
<tr>
<td><strong>In Human Anatomy and Physiology 2, students will:</strong></td>
<td></td>
</tr>
<tr>
<td>• study those systems not covered in Human Anatomy and Physiology 1</td>
<td></td>
</tr>
<tr>
<td>• be required to complete a cat dissection</td>
<td></td>
</tr>
<tr>
<td>• study structures and functions of human anatomy through a hands-on lab-oriented approach</td>
<td></td>
</tr>
</tbody>
</table>

| **NIGHT ASTRONOMY - MAGNET**                | 3072 |
| Grades 11, 12                              |      |
| Offered to all students; taught at the Little Thompson Observatory near BHS |      |
| **Meets one evening a week from 6:00 pm - 10:00 pm** |      |
| **Credit:** .50 Science                    |      |
| **Recommended:** Geophysical Lab Science   |      |
| **In Night Astronomy Magnet, students will:** |      |
| • locate objects in the night sky          |      |
| • learn optics and functioning of telescopes |      |
| • observe and photograph using 18” telescope |      |
| • utilize “The Sky” software               |      |

| **PHYSICS**                                 | 3052, 3053 |
| BHS, FHS, LHS, MVHS, TVHS                   |      |
| **Credit:** 1.0 Science                     |      |
| **If student has met the Science graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)** |      |
| **Recommended:** Algebra 2                  |      |
| **In Physics, students will:**              |      |
| • learn about motion, energy, relativity, light, sound, heat, optics, electricity, or aerodynamics without the rigorous mathematics of AP Physics |      |
| • apply learning through objects like catapults, lasers, black holes, and machines |      |
| • receive a good introduction to Physics in preparation for technical, humanities, and fine arts fields |      |
| • advanced math students should consider registering for AP Physics |      |

| **PHYSICS WITH TRIGONOMETRY/FUNCTIONS**      | 2076, 2077 |
| - Trigonometry/Functions Integrated         |      |
| - Physics Integrated                        |      |
| TVHS                                        |      |
| **Credit:** 1.0 Math and 1.0 Science        |      |
| **If student has met either the Math or Science graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)** |      |
| **Recommended:** Algebra 2                  |      |
| **In Physics with Trigonometry/Functions, students will:** |      |
| • explore relationships between trigonometric, polynomial, exponential and logarithmic functions, and motion, energy, relativity, and light |      |
| • apply learning through projects like catapults, lasers, rockets, and bridges |      |
| • graph and solve relationships of mathematical functions |      |
| • solve equations, use trigonometric identities and vectors in real-world applications |      |
## AP PHYSICS 1: ALGEBRA-BASED

<table>
<thead>
<tr>
<th>Code</th>
<th>Location(s)</th>
<th>Credit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3056</td>
<td>BHS, MVHS, TVHS</td>
<td>1.0 Science</td>
<td>If student has met the Science graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023). Recommended: Trigonometry/Functions. Fee: Student pays for textbook.</td>
</tr>
</tbody>
</table>

**In AP Physics 1 Algebra-Based, students will:**
- follow a course outline designed by the Advanced Placement Committee which is to be the equivalent of a freshman physics course at a 4-year college.
- have the opportunity to prepare for the AP Physics 1 test and receive college credit.

## AP PHYSICS 2: ALGEBRA-BASED

<table>
<thead>
<tr>
<th>Code</th>
<th>Location(s)</th>
<th>Credit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3058</td>
<td>BHS, TVHS</td>
<td>1.0 Science</td>
<td>If student has met the Science graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023). Fee: Student pays for textbook.</td>
</tr>
</tbody>
</table>

**In AP Physics 2: Algebra-Based, students will:**
- explore topics such as fluid statics and dynamics.
- thermodynamics with kinetic theory.
- PV diagrams and probability; electrical circuits with capacitors.
- magnetic fields.
- electromagnetism; physical and geometric optics.
- quantum, atomic and nuclear physics.

## AP PHYSICS C: ELECTRICITY AND MAGNETISM

<table>
<thead>
<tr>
<th>Code</th>
<th>Location(s)</th>
<th>Credit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3062</td>
<td>BHS</td>
<td>1.0 Science</td>
<td>If student has met the Science graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023). Recommended: AP Physics C: Mechanics, Calculus concurrent enrollment. Fee: Student pays for textbook. Note: Same textbook as AP Physics C: Mechanics.</td>
</tr>
</tbody>
</table>

**In AP Physics C: Electricity and Magnetism, students will:**
- study the relationships of electricity and magnetism, with a Calculus emphasis.
- follow a course outline that prepares students for the AP Physics C exam, E and M portion.
- master problem-solving skills and content equivalent to freshman engineering Physics 2 at a 4-year college.

## AP PHYSICS C: MECHANICS

<table>
<thead>
<tr>
<th>Code</th>
<th>Location(s)</th>
<th>Credit</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3060</td>
<td>LHS, BHS</td>
<td>1.0 Science</td>
<td>If student has met the Science graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023). Recommended: AP Calculus. Fee: Student pays for textbook.</td>
</tr>
</tbody>
</table>

**In AP Physics C: Mechanics, students will:**
- study mechanics with Calculus applications including gravitation and rotation.
- follow a course outline that prepares students for the AP Physics C exam, mechanics portion.
- master problem-solving skills and content equivalent to freshman engineering Physics 1 at a 4-year college.
THOMPSON RIVER PROJECT
BHS
Credit: 1.0 Science
Recommended: Biology

_In Thompson River Project, students will:_
- conduct lab and field studies on the Big Thompson River
- evaluate and communicate the results of their studies
- apply natural science principles as they deepen their understanding of Ecology
- synthesize an interdisciplinary learning strategy in preparation for college/career demands
### CIVICS

**Credit:** .50 Social Studies

In Civics, students will:
- gain an understanding of the law and the legal system of the United States
- be aware of current issues and be encouraged to participate as citizens in the legal system
- receive an introduction to the origin and development of our legal system

### CIVICS PRE AP

**MVHS, TVHS**

**Credit:** 1.0 Social Studies

In Pre AP Civics, students will:
- learn the same skills as in Civics, but at a more advanced and rigorous level. Per the AP Central College Board’s website, “Pre-AP is based on the following two important premises. The first is the expectation that all students can perform well at rigorous academic levels. The second important premise of Pre-AP is the belief that we can prepare every student for higher intellectual engagement by starting the development of skills and acquisition of knowledge as early as possible” (apcentral.collegeboard.com).

### CIVICS HONORS

**LHS**

**Credit:** 1.0 Social Studies

In Civics Honors, students will:
- learn the same skills as in Civics, but at a more advanced and rigorous level. Per the AP Central College Board’s website, “Pre-AP is based on the following two important premises. The first is the expectation that all students can perform well at rigorous academic levels. The second important premise of Pre-AP is the belief that we can prepare every student for higher intellectual engagement by starting the development of skills and acquisition of knowledge as early as possible” (apcentral.collegeboard.com).

### AP COMPARATIVE GOVERNMENT AND POLITICS

**TVHS**

**Credit:** .50 Social Studies

*If student has met the Social Studies graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*

Fee: Student pays for textbook

In AP Comparative Government and Politics, students will:
- examine the sources of public authority and political power, the relationship between state and society, the relationship between citizens and states
- study various political institutions and frameworks, and political change
- examine political life in the United Kingdom, Russia, China, Iran, Mexico, and Nigeria

### ECONOMICS

**BHS, FHS, MVHS**

**LHS, TVHS (Grade 12)**

**Credit:** .50 Social Studies

In Economics, students will:
- develop an understanding of the basics of microeconomics and macroeconomics
- be presented a framework for studying economic concepts, processes, and issues
- study the American economic system, other types of economic systems, their functions, and their effects around the world
ENGLISH 11 AND MODERN AMERICA INTEGRATED
- English 11 Integrated 1044, 1045
- Modern America Integrated 4044, 4045
TVHS
Credit: 1.0 Language Arts and 1.0 Social Studies

In Integrated Eleventh Grade English and Modern America, students will:
• read, respond, and apply thinking skills to novels, short stories, nonfiction, poetry, and multimedia as they relate to authors’ purposes complementing American history, geography, and diverse culture
• exceed the eleventh grade English requirements

AP HUMAN GEOGRAPHY
BHS, LHS, MVHS, TVHS
Credit: 1.0 Social Studies
If student has met the Social Studies graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Fee: Student pays for textbook

In AP Human Geography, students will:
• examine human geography as an introductory college course
• introduction to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth’s surface
• employ spatial concepts and landscape analysis to analyze human social organization and its environmental consequences
• learn the methods and tools geographers use in their science and practice, understand cultural and intellectual developments and interactions among and within societies
• realize the changes in functions and structures of states and in attitudes toward states and political identities

JROTC - LEVEL 1
BHS, LHS, MVHS, TVHS
Credit: .50 Fitness* Semester 1 and .50 Social Studies (Civics Requirement) Semester 2
*Students who have already met their fitness requirement will receive elective credit for Semester 1
Fee: $25 per semester

In JROTC 1, students will:
• participate in Leadership Education and Training I consisting of effective communication techniques, Presidential Physical Fitness Program, basic leadership skills, drug abuse prevention, basic nutrition, citizenship through history, drill, and ceremonies, community service and US Civics topics.

AP MACROECONOMICS
LHS, MVHS (Grade 12)
Credit: .50 Social Studies
If student has met the Social Studies graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Fee: Student pays for textbook

In AP Macroeconomics, students will:
• gain a thorough understanding of the workings of the American economy and the international economy
• study national income and price determination, economic performance measures, economic growth, and specifics of international economics
• be prepared to take the AP exam
Social Studies

AP MICROECONOMICS
TVHS
LHS, TVHS (Grade 12)
Credit: .50 Social Studies
If student has met the Social Studies graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Fee: Student pays for textbook

In AP Microeconomics, students will:
• understand basic economic concepts
• be able to identify and understand the nature and function of product markets
• identify factor markets and their role in determining demand for factors of production
• be able to see how to utilize resources as efficiently as possible to ensure maximum production
• be prepared to take the AP Exam

MODERN AMERICA
BHS, FHS, LHS, MVHS, TVHS
Credit: 1.0 Social Studies

In Modern America, students will:
• cover United States history from 1877 to the present
• gain an understanding of the emergence of the United States from an isolationist country to a superpower
• study the interaction of business, labor, farmers, the poor, government
• look at politicians and political parties
• explore the role of minorities, immigration, and urbanization

AP U.S. GOVERNMENT AND POLITICS
LHS, MVHS, TVHS
Credit: .50 Social Studies
If student has met the Social Studies graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Fee: Student pays for textbook

In AP U.S. Government and Politics, students will:
• explore the Constitutional underpinning of United States government
• examine political beliefs and behaviors, political parties, interest groups, and the mass media
• study our institutions of national government, public policy, civil rights, and civil liberties

AP UNITED STATES HISTORY
BHS, LHS, MVHS, TVHS
Credit: 1.0 Social Studies
If student has met the Social Studies graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Fee: Student pays for textbook
* College credit may be available

In AP United States History, students will:
• study The Colonization of America, The American Revolution, The Constitution
• evaluate The Age of Jacksonian Democracy, The Civil War and Reconstruction, Industrial America
• view America becoming a world power, the 1920's, the 1930's/The Great Depression
• study World War 2, America as a global power, and the turmoil of the 60's/Vietnam
**Social Studies**

**WORLD AND MUSIC HISTORY**  
4110, 4111  
MVHS  
Credit: 1.0 Social Studies  
*If student has met their Social Studies requirement this course will count towards the Fine Arts graduation requirement*

In World and Music History students will:
- examine the world’s major religious, philosophical, political, economic, and social belief systems
- examine how the systems listed above were developed, created, and spurred change throughout history
- develop note taking, organizational, writing, analytical, and critical thinking skills
- study music in its historical and cultural context
- study stylistic development, connections to the other arts and social changes from the Renaissance through the 20th century
- study representative composers, musical styles, and compositions through score study and listening assignments

**WORLD GEOGRAPHY**  
4088, 4089  
FHS  
Credit: 1.0 Social Studies

In World Geography, students will:
- use the five themes of geography
- develop map and atlas skills that will enable them to analyze human interactions between cultures and the environment
- focus on the regions of Oceania, East Asia, Southeast Asia, South Asia, Southwest Asia, Northern Africa, Sub-Saharan Africa, Russia and Central Asia, Europe, South America, Central America and North America

**WORLD HISTORY**  
4020, 4021  
BHS, FHS, LHS, MVHS, TVHS  
Credit: 1.0 Social Studies

In World History, students will:
- examine the world’s major religious, philosophical, political, economic, and social belief systems
- examine how the systems listed above were developed, created, and spurred change throughout history
- develop note taking, organizational, writing, analytical, and critical thinking skills

**WORLD HISTORY PRE AP**  
4034, 4035  
Credit: 1.0 Social Studies

In World History Pre AP, students will:
- read, respond, and apply thinking skills
- understand the purpose of language skills
- write personal narratives, compare/contrast, problem/solution short responses as well as persuasive essays
- examine the world’s major religious, philosophical, political, economic, and social belief systems and examine how they spurred change
- develop note taking, organizational, analytical, and critical thinking skills
**WORLD HISTORY HONORS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
<th>LHS</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>4036, 4037</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**In World History Honors, students will:**
- read, respond, and apply thinking skills
- understand the purpose of language skills
- write personal narratives, compare/contrast, problem/solution short responses as well as persuasive essays
- examine the world's major religious, philosophical, political, economic, and social belief systems and examine how they spurred change
- develop note taking, organizational, analytical, and critical thinking skills

**AP WORLD HISTORY**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
<th>MVHS, TVHS</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>4028, 4029</td>
<td>1.0</td>
<td></td>
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</tbody>
</table>

**If student has met the Social Studies graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)**

**In AP World History, students will:**
- research patterns and impacts of interaction among major societies: trade, war, diplomacy, and international organizations
- identify the impact of technology and demography on people and the environment

**WORLD GEOGRAPHY**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
<th>BHS, LHS, MVHS, TVHS</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>4088, 4089</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**In World Geography, students will:**
- use the five themes of geography
- develop map and atlas skills that will enable them to analyze human interactions between cultures and the environment focus on the regions of Oceania, East Asia, Southeast Asia, South Asia, Southwest Asia, Northern Africa, Sub-Saharan Africa, Russia and Central Asia, Europe, South America, Central America, and North America

**WORLD GEOGRAPHY HONORS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit Hours</th>
<th>LHS</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>4092, 4093</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

In World Geography Honors students will:
- Study the world’s peoples, places, and environments, with a focus on regional studies.
- Examine the five themes of geography and the relationship between the physical environment and human culture.
- Gain insight and understanding as to what it means to be a global citizen.
- Investigate issues such as the environment, human rights, globalization and development.
World Languages Seal of Biliteracy

Demonstrating Language Mastery

The TSD Seal of Biliteracy is a credential for graduating high school students who can communicate in the interpersonal, interpretive and presentational modes at the intermediate-mid proficiency range or higher in another languages as well as at a high level in English. In order to earn the Seal, students who are seniors must demonstrate their mastery of both English and another world language using the approved criteria listed here.

1. Complete all graduation requirements.
   You must fulfill all requirements to graduate from a TSD high school in order to earn the Seal. Students who are not yet high school seniors may complete all other requirements prior to their senior year.

2. Show Literacy In English
   Students must complete one of the following:

<table>
<thead>
<tr>
<th>ACT</th>
<th>English ≥18</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP English Language &amp; Composition</td>
<td>≥ 3</td>
</tr>
<tr>
<td>AP English Literature &amp; Composition</td>
<td>≥ 3</td>
</tr>
<tr>
<td>IB English Language &amp; Literature A</td>
<td>≥ 4</td>
</tr>
<tr>
<td>SAT (English section)</td>
<td>≥ 460</td>
</tr>
<tr>
<td>English 121-Community College Course</td>
<td>C- or better</td>
</tr>
</tbody>
</table>

3. Show Literacy in a World Language.
   Students must complete one of the following in their senior year:

   | AP Spanish Language, AP French Language, AP German Language | ≥ 3         |
   | IB Spanish B, IB French B, IB German B | ≥ 4         |
   | AAPPL Assessment (Arabic, Mandarin, French, German, Hindi, Japanese, Portuguese, Russian, Spanish, Thai) | 14 or higher Intermediate-mid or higher |

Application, information and more are at:

https://www.thompsonschools.org/tsdsealofbiliteracy
World Languages

Thompson School District World Language classes prepare students to:

- Communicate effectively in more than one language in order to function in a variety of situations and for multiple purposes.
- Interact with cultural competence and understanding.
- Connect with other disciplines and acquire information and diverse perspectives in order to use the language to function in academic and career-related situations.
- Develop insight into the nature of language and culture in order to interact with cultural competence.
- Communicate and interact with cultural competence in order to participate in multilingual communities at home and abroad.

AMERICAN SIGN LANGUAGE 1 7100, 7101
BHS, LHS, MVHS, TVHS
Credit: 1.0 World Language

This course will be held at Loveland High School. Transportation may be arranged for students at other high schools who wish to take this course.

American Sign Language 1 introduces students to the fundamental elements of American Sign Language within a thematic cultural context focusing on practical, conversational skills, as well as interpreting skills at the Novice-mid proficiency. Emphasis is also placed on the development of basic expressive and receptive skills. Upon completion, students will be able to comprehend and respond to expressive American Sign Language and demonstrate cultural awareness of the deaf and hearing-impaired community.

In Level 1 American Sign Language students will

**Communicate effectively in more than one language in order to function in a variety of situations and for multiple purposes at the Novice-Mid proficiency level by**
- Interacting and negotiating meaning in signed conversations to share information, reactions, feelings, and opinions in the Interpersonal mode.
- Understanding, interpreting, and analyzing what is signed on a variety of topics in the interpretive mode.
- Presenting information, concepts, and ideas to inform, explain, persuade, and narrate on a variety of topics using appropriate media and adapting to various audiences of viewers in the Presentational mode.

**Interact with cultural competence and understanding by**
- Using the language to investigate, explain, and reflect on the relationship between the practices and perspectives of the deaf and hearing impaired communities.
- Using the language to investigate, explain, and reflect on the relationship between the products and perspectives of the deaf and hearing impaired communities.

**Connect to other disciplines and acquire information and diverse perspectives in order to use the language to function in academic and career-related situations by**
- Building, reinforcing, and expanding their knowledge of other disciplines while using the language to develop critical thinking and to solve problems creatively.
- Accessing and evaluating information and diverse perspectives that are available through the language and its cultures.

**Develop insight into the nature of language and culture in order to interact with cultural competence by**
- Using the language to investigate, explain, and reflect on the nature of language through comparisons of the language studied and their own.

**Communicate and interact with cultural competence in order to participate in multilingual communities at home and abroad by:**
- Using use the language both within and beyond the classroom to interact and collaborate in their community and the globalized world.
- Setting goals and reflect on their progress in using languages for enjoyment, enrichment, and advancement.
World Languages

AMERICAN SIGN LANGUAGE 2
BHS, LHS, MVHS, TVHS
Credit: 1.0 World Language

This course will be held at Loveland High School. Transportation may be arranged for students at other high schools who wish to take this course.

American Sign Language 2 continues to develop the fundamental elements of American Sign Language within a thematic cultural context focusing on practical, conversational skills, as well as interpreting skills at the Novice-mid proficiency. Emphasis is also placed on the development of basic expressive and receptive skills. Upon completion, students will be able to comprehend and respond to expressive American Sign Language and demonstrate cultural awareness of the deaf and hearing-impaired community.

In Level 2 American Sign Language students will
Communicate effectively in more than one language in order to function in a variety of situations and for multiple purposes at the Novice-High proficiency level by
• Interacting and negotiating meaning in signed conversations to share information, reactions, feelings, and opinions in the Interpersonal mode.
• Understanding, interpreting, and analyzing what is signed on a variety of topics in the interpretive mode.
• Presenting information, concepts, and ideas to inform, explain, persuade, and narrate on a variety of topics using appropriate media and adapting to various audiences of viewers in the Presentational mode.

Interact with cultural competence and understanding by
• Using the language to investigate, explain, and reflect on the relationship between the practices and perspectives of the deaf and hearing impaired communities.
• Using the language to investigate, explain, and reflect on the relationship between the products and perspectives of the deaf and hearing impaired communities.

Connect to other disciplines and acquire information and diverse perspectives in order to use the language to function in academic and career-related situations by
• Building, reinforcing, and expanding their knowledge of other disciplines while using the language to develop critical thinking and to solve problems creatively.
• Accessing and evaluating information and diverse perspectives that are available through the language and its cultures.

Develop insight into the nature of language and culture in order to interact with cultural competence by
• Using the language to investigate, explain, and reflect on the nature of language through comparisons of the language studied and their own.

Communicate and interact with cultural competence in order to participate in multilingual communities at home and abroad by:
• Using use the language both within and beyond the classroom to interact and collaborate in their community and the globalized world.
• Setting goals and reflect on their progress in using languages for enjoyment, enrichment, and advancement.
World Languages

LEVEL 1
French - BHS, LHS, MVHS, TVHS
German - LHS, TVHS
Spanish - BHS, LHS, MVHS, TVHS
Credit: 1.0 World Language

PRE AP LEVEL 1
French – TVHS
Spanish – MVHS, TVHS
Credit: 1.0 World Language

HONORS LEVEL 1
French – LHS
German – LHS
Spanish – LHS
Credit: 1.0 World Language

In Level 1 and Pre AP Level and Honors 1, students will
Communicate effectively in more than one language in order to function in a variety of situations and for multiple purposes at the Novice-Mid proficiency level by
• Interacting and negotiating meaning in spoken, signed, or written conversations to share information, reactions, feelings, and opinions in the Interpersonal mode.
• Understanding, interpreting, and analyzing what is heard, read, or viewed on a variety of topics in the interpretive mode.
• Presenting information, concepts, and ideas to inform, explain, persuade, and narrate on a variety of topics using appropriate media and adapting to various audiences of listeners, readers, or viewers in the Presentational mode.

Interact with cultural competence and understanding by
• Using the language to investigate, explain, and reflect on the relationship between the practices and perspectives of the cultures studied.
• Using the language to investigate, explain, and reflect on the relationship between the products and perspectives of the cultures studied.

Connect with other disciplines and acquire information and diverse perspectives in order to use the language to function in academic and career-related situations by
• Building, reinforcing, and expanding their knowledge of other disciplines while using the language to develop critical thinking and to solve problems creatively.
• Accessing and evaluating information and diverse perspectives that are available through the language and its cultures.

Develop insight into the nature of language and culture in order to interact with cultural competence by
• Using the language to investigate, explain, and reflect on the nature of language through comparisons of the language studied and their own.

Communicate and interact with cultural competence in order to participate in multilingual communities at home and abroad by:
• Using the language both within and beyond the classroom to interact and collaborate in their community and the globalized world.
• Setting goals and reflect on their progress in using languages for enjoyment, enrichment, and advancement.
World Languages

LEVEL 2
French - BHS, LHS, MVHS, TVHS 7004, 7005
German - LHS, TVHS 7018, 7019
Spanish - BHS, LHS, MVHS, TVHS 7032, 7033
Credit: 1.0 World Language
If student has met the World Language graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Recommendation: Successful completion of Level 1

PRE AP LEVEL 2
French - MVHS, TVHS 7064, 7065
German - TVHS 7074, 7075
Spanish - BHS, MVHS, TVHS 7084, 7085
Credit: 1.0 World Language
If student has met the World Language graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Recommendation: Successful completion of Level 1

HONORS LEVEL 2
French - LHS 7064, 7065
German - LHS 7074, 7075
Spanish - LHS 7084, 7085
Credit: 1.0 World Language
If student has met the World Language graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Recommendation: Successful completion of Level 1

In Level 2, Pre AP Level 2 and Honors Level 2 students will
Communicate effectively in more than one language in order to function in a variety of situations and for multiple purposes at the Novice-High proficiency level by
• Interacting and negotiating meaning in spoken, signed, or written conversations to share information, reactions, feelings, and opinions in the Interpersonal mode.
• Understanding, interpreting, and analyzing what is heard, read, or viewed on a variety of topics in the interpretive mode.
• Presenting information, concepts, and ideas to inform, explain, persuade, and narrate on a variety of topics using appropriate media and adapting to various audiences of listeners, readers, or viewers in the Presentational mode.

Interact with cultural competence and understanding by
• Using the language to investigate, explain, and reflect on the relationship between the practices and perspectives of the cultures studied.
• Using the language to investigate, explain, and reflect on the relationship between the products and perspectives of the cultures studied.

Connect with other disciplines and acquire information and diverse perspectives in order to use the language to function in academic and career-related situations by
• Building, reinforcing, and expanding their knowledge of other disciplines while using the language to develop critical thinking and to solve problems creatively.
• Accessing and evaluating information and diverse perspectives that are available through the language and its cultures.

Develop insight into the nature of language and culture in order to interact with cultural competence by
• Using the language to investigate, explain, and reflect on the nature of language through comparisons of the language studied and their own.

Communicate and interact with cultural competence in order to participate in multilingual communities at home and abroad by:
• Using use the language both within and beyond the classroom to interact and collaborate in their community and the globalized world.
• Setting goals and reflect on their progress in using languages for enjoyment, enrichment, and advancement.
World Languages

LEVEL 3
French - BHS, LHS, MVHS, TVHS 7008, 7009
German - LHS, TVHS 7022, 7023
Spanish - BHS, LHS, MVHS, TVHS 7036, 7037
Credit: 1.0 World Language
*If student has met the World Language graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*
Recommendation: Successful completion of Level 2

PRE AP LEVEL 3
French - TVHS 7048, 7049
German - TVHS 7052, 7053
Spanish - BHS, MVHS, TVHS 7042, 7043
Credit: 1.0 World Language
*If student has met the World Language graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*
Recommendation: Successful completion of Level 2

HONORS LEVEL 3
French - LHS 7066, 7067
German - LHS 7076, 7077
Spanish - LHS 7086, 7087
Credit: 1.0 World Language
*If student has met the World Language graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*
Recommendation: Successful completion of Level 2

In Level 3, Pre AP Level 3 and Honors Level 3 students will
Communicate effectively in more than one language in order to function in a variety of situations and for multiple purposes at the Intermediate-Low proficiency level by
- Interacting and negotiating meaning in spoken, signed, or written conversations to share information, reactions, feelings, and opinions in the Interpersonal mode.
- Understanding, interpreting, and analyzing what is heard, read, or viewed on a variety of topics in the interpretive mode.
- Presenting information, concepts, and ideas to inform, explain, persuade, and narrate on a variety of topics using appropriate media and adapting to various audiences of listeners, readers, or viewers in the Presentational mode.

Interact with cultural competence and understanding by
- Using the language to investigate, explain, and reflect on the relationship between the practices and perspectives of the cultures studied.
- Using the language to investigate, explain, and reflect on the relationship between the products and perspectives of the cultures studied.

Connect with other disciplines and acquire information and diverse perspectives in order to use the language to function in academic and career-related situations by
- Building, reinforcing, and expanding their knowledge of other disciplines while using the language to develop critical thinking and to solve problems creatively.
- Accessing and evaluating information and diverse perspectives that are available through the language and its cultures.

Develop insight into the nature of language and culture in order to interact with cultural competence by
- Using the language to investigate, explain, and reflect on the nature of language through comparisons of the language studied and their own.

Communicate and interact with cultural competence in order to participate in multilingual communities at home and abroad by:
- Using use the language both within and beyond the classroom to interact and collaborate in their community and the globalized world.
- Setting goals and reflect on their progress in using languages for enjoyment, enrichment, and advancement.
World Languages

LEVEL 4
French – BHS, LHS, MVHS  
German - LHS, TVHS  
Spanish - BHS, LHS, MVHS, TVHS
Credit: 1.0 World Language

If student has met the World Language graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Recommendation: Successful completion of Level 3
*College credit may be available

PRE AP LEVEL 4
Spanish – BHS, MVHS, TVHS
Proficiency target: Intermediate-Low
Credit: 1.0 World Language

If student has met the World Language graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Recommendation: Successful completion of Level 3
*College credit may be available

HONORS LEVEL 4
Spanish – LHS  
French – LHS
Credit: 1.0 World Language

If student has met the World Language graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Recommendation: Successful completion of Level 3
*College credit may be available

In Level 4, Pre AP Level 4 and Honors Level 4 students will
Communicate effectively in more than one language in order to function in a variety of situations and for multiple purposes at the Intermediate-Low proficiency level by
• Interacting and negotiating meaning in spoken, signed, or written conversations to share information, reactions, feelings, and opinions in the Interpersonal mode.
• Understanding, interpreting, and analyzing what is heard, read, or viewed on a variety of topics in the Interpretive mode.
• Presenting information, concepts, and ideas to inform, explain, persuade, and narrate on a variety of topics using appropriate media and adapting to various audiences of listeners, readers, or viewers in the Presentational mode.

Interact with cultural competence and understanding by
• Using the language to investigate, explain, and reflect on the relationship between the practices and perspectives of the cultures studied.
• Using the language to investigate, explain, and reflect on the relationship between the products and perspectives of the cultures studied.

Connect with other disciplines and acquire information and diverse perspectives in order to use the language to function in academic and career-related situations by
• Building, reinforcing, and expanding their knowledge of other disciplines while using the language to develop critical thinking and to solve problems creatively.
• Accessing and evaluating information and diverse perspectives that are available through the language and its cultures.

Develop insight into the nature of language and culture in order to interact with cultural competence by
• Using the language to investigate, explain, and reflect on the nature of language through comparisons of the language studied and their own.

Communicate and interact with cultural competence in order to participate in multilingual communities at home and abroad by:
• Using use the language both within and beyond the classroom to interact and collaborate in their community and the globalized world.
• Setting goals and reflect on their progress in using languages for enjoyment, enrichment, and advancement.
World Languages

AP GERMAN LEVEL 4 7056, 7057
LHS
Credit 1.0 World Language

If student has met the World Language graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Recommendation: successful completion of Level 3

In AP German Level 4 students will
Communicate effectively in more than one language in order to function in a variety of situations and for multiple purposes at the Intermediate-Low proficiency level by
- Interacting and negotiating meaning in spoken, signed, or written conversations to share information, reactions, feelings, and opinions in the Interpersonal mode.
- Understanding, interpreting, and analyzing what is heard, read, or viewed on a variety of topics in the interpretive mode.
- Presenting information, concepts, and ideas to inform, explain, persuade, and narrate on a variety of topics using appropriate media and adapting to various audiences of listeners, readers, or viewers in the Presentational mode.

Interact with cultural competence and understanding by
- Using the language to investigate, explain, and reflect on the relationship between the practices and perspectives of the cultures studied.
- Using the language to investigate, explain, and reflect on the relationship between the products and perspectives of the cultures studied.

Connect with other disciplines and acquire information and diverse perspectives in order to use the language to function in academic and career-related situations by
- Building, reinforcing, and expanding their knowledge of other disciplines while using the language to develop critical thinking and to solve problems creatively.
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Develop insight into the nature of language and culture in order to interact with cultural competence by
- Using the language to investigate, explain, and reflect on the nature of language through comparisons of the language studied and their own.

Communicate and interact with cultural competence in order to participate in multilingual communicate at home and abroad by:
- Using use the language both within and beyond the classroom to interact and collaborate in their community and the globalized world.
- Setting goals and reflect on their progress in using languages for enjoyment, enrichment, and advancement.
World Languages

LEVEL 5

French – LHS 7012, 7013
Spanish – MVHS, TVHS 7040, 7041
Credit: 1.0 World Language

If student has met the World Language graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Recommendation: Successful completion of Level 4
*College credit may be available

HONORS LEVEL 5

French – LHS 7070, 7071
Credit: 1.0 World Language

If student has met the World Language graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)
Recommendation: Successful completion of Level 4
*College credit may be available

In Level 5 students will
Communicate effectively in more than one language in order to function in a variety of situations and for multiple purposes at the Intermediate-Mid proficiency level by
• Interacting and negotiating meaning in spoken, signed, or written conversations to share information, reactions, feelings, and opinions in the Interpersonal mode.
• Understanding, interpreting, and analyzing what is heard, read, or viewed on a variety of topics in the interpretive mode.
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Interact with cultural competence and understanding by
• Using the language to investigate, explain, and reflect on the relationship between the practices and perspectives of the cultures studied.
• Using the language to investigate, explain, and reflect on the relationship between the products and perspectives of the cultures studied.

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Communicate and interact with cultural competence in order to participate in multilingual communicate at home and abroad by:
• Using use the language both within and beyond the classroom to interact and collaborate in their community and the globalized world.
• Setting goals and reflect on their progress in using languages for enjoyment, enrichment, and advancement.
World Languages

AP LEVEL 5

**Spanish** – MVHS, TVHS
**French** – LHS

Credit: 1.0 World Language

*If student has met the World Language graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*

Recommendation: Successful completion of Level 4

*College credit may be available*

In AP Level 5 students will

**Communicate effectively in more than one language in order to function in a variety of situations and for multiple purposes at the Intermediate-Mid proficiency level by**

- Interacting and negotiating meaning in spoken, signed, or written conversations to share information, reactions, feelings, and opinions in the Interpersonal mode.
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- Setting goals and reflect on their progress in using languages for enjoyment, enrichment, and advancement.
Advancement Via Individual Determination (AVID) at Thompson Valley High School

Thompson Valley High School is proud to be the only high school in the Thompson R2J School District to have the AVID program. This is a college readiness system that supports college bound students, and prepares them for life after high school. It offers students a chance to be a part of a 4-year program that focuses on raising students’ skills to be fully college ready by the time they graduate.

Why Should I choose AVID?
AVID is a non-profit organization that has a 40-year history of improving students’ scores on AP tests, college entrance exams like the SAT, and improving students organizational, time management, and study skills. AVID is meant for students who are in the academic middle, but who are determined to go to college. This means the ideal AVID candidate is a student who is between a 2.0-3.5 GPA. 90% of AVID student’s complete college entrance requirements compared with the national average of 36%. AVID students are accepted into universities at a much higher rate (78%) than those high school students who do not take AVID (60%).

At Thompson Valley High School AVID takes the form of an elective class that students take for all four years of high school. Students will have the same AVID teacher all four years and stay with their same peer group all four years. The program is voluntary and students can opt out if it does not work for them, and the same is true of the AVID teacher. This means that those in the program including the teacher are dedicated to excellence, rigor and maintaining a positive and supportive culture. AVID is successful not only because it provides students with the skills they need to be successful, but it provides students with a caring and encouraging environment.

What Does the AVID Class Look Like?
Students will be given a curriculum that focuses on deepening their writing, inquiry and collaboration, organizational and reading skills. Students will use planners and be taught planning skills so they become better at time management. Students will receive Socratic tutoring twice a week from college students while in class. This provides students with the opportunity to get help in their other core classes while in school. Students will also be taught test taking strategies and be given SAT preparation in class. Students will learn how to navigate through college and financial aid applications, and be taken on field trips for college visits and college fairs.

How Do I Apply?
Students must fill out an application to be considered for the AVID program, and they can be picked up and returned to the Main Office at Thompson Valley High School or by visiting https://www.thompsonschools.org/Page/17233
Any questions can be answered by contacting the AVID coordinator Laura Light-Kovacs at: laura.light-kovacs@thompsonschools.org
AP Capstone™ is a diploma program based on two AP courses: AP Seminar and AP Research. These yearlong courses focus on developing the critical thinking, research, collaboration, time management, and presentation skills you need for college-level work.

**AP Seminar**
In this course, you will learn to consider an issue from multiple perspectives, identify credible sources, evaluate strengths and weaknesses of arguments, and make logical, evidence-based recommendations. You will investigate a variety of topics through various viewpoints of your choice.
During the course, you will complete a team project and an individual paper and presentation, as well as take a written end-of-course exam. These components contribute to the overall AP Seminar score. AP Seminar is a prerequisite for AP Research. Visit the AP Seminar student home page at [http://apstudent.org/seminar](http://apstudent.org/seminar)

**AP Research**
In AP Research, you will explore various research methods and complete an independent research project. Your project can build on a topic, problem, or issue you covered in AP Seminar or on a brand new topic of your own choosing.
At the end of the project, you will submit your academic paper and present and defend your research findings. These components contribute to the overall AP Research score. There is no end-of-course exam. Visit the AP Seminar student home page at [http://apstudent.org/research](http://apstudent.org/research)

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**How It Works**
If you earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of your choice, you'll receive the **AP Capstone Diploma™**.
If you earn scores of 3 or higher in AP Seminar and AP Research, you'll receive the **AP Seminar and Research Certificate™**.

<table>
<thead>
<tr>
<th><strong>AP SEMINAR (Year 1)</strong></th>
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<tr>
<td>Team Project &amp; Presentation</td>
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<td>Individual Research-Based Essay &amp; Presentation</td>
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<td>End-of-Course Exam</td>
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<tr>
<th><strong>AP RESEARCH (Year 2)</strong></th>
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<td>Academic Paper</td>
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<td>Presentation &amp; Oral Defense</td>
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<table>
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<tr>
<th><strong>4 AP COURSES &amp; EXAMS</strong></th>
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<tbody>
<tr>
<td>(Taken at any point throughout high school)</td>
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</table>
AP Capstone candidates stand out:

- On college applications and essays because they demonstrate critical thinking, communication, and research skills associated with AP Capstone.
- In college interviews because of the confidence, expertise, and passion they show when they talk about their unique academic projects.
- To college admission officers, who recognize that AP Capstone students know how to build evidence-based arguments, apply research methods, work in teams, deliver professional presentations, and complete long-term academic projects.

These are just some of the colleges and universities that offer credit and/or placement policies for AP Seminar and AP Research:

- Colorado State University
- Brigham Young University
- California Institute of Technology
- Purdue University
- California State University
- University at Albany, SUNY
- The Ohio State University
- University of Florida
- Fashion Institute of Technology
- University of Illinois
- Marquette University
- The University of Texas
- Massachusetts Institute of Technology
- University of Wisconsin
- McGill University
- Washington State University
- Michigan State University
- West Virginia University

A complete list can be found at collegeboard.org/apcapstonehed.
Concurrent Enrollment - High School Select Classes

High School Select is a concurrent enrollment program that allows high school students to take a college level class at their home high school for college credit. Tuition is covered by the school district, but students may be responsible for textbooks. High school select courses will carry a weighted grade.

Students should be aware that classes are taught at the college-level, and students are expected to meet all college-level requirements, including appropriate placement test scores. Classes are often taught by home high school teachers who meet the qualifications of a college faculty member.

Below is the list of the courses by school that are eligible as High School Select. Please note that this list changes depending on school offering and/or teacher eligibility.

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<thead>
<tr>
<th>School</th>
<th>School Course</th>
<th>School Course Name</th>
<th>College Course</th>
<th>College Course Name</th>
<th>College</th>
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<td>BHS</td>
<td>1103</td>
<td>College Composition 1</td>
<td>ENGL 1020</td>
<td>Core Composition 1</td>
<td>CU Gold</td>
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<tr>
<td>BHS</td>
<td>1104</td>
<td>College Composition 2</td>
<td>ENGL 2030</td>
<td>Core Composition 2</td>
<td>CU Gold</td>
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<td>HIST 1211</td>
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<td>Philanthropy Civic Engagement</td>
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<td>BHS</td>
<td>3026, 3027</td>
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<td>BIO 111</td>
<td>General College Biology I with Lab</td>
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<td>BHS</td>
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<td>ENGR 1510</td>
<td>Environmental Sustainability</td>
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<td>BHS</td>
<td>4048, 4049</td>
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<td>HIST 1362</td>
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<td>8310</td>
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<td>CAR 100</td>
<td>Introduction to Carpentry</td>
<td>AIMS</td>
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<tr>
<td>BHS</td>
<td>8310</td>
<td>Construction</td>
<td>CAR 101</td>
<td>Basic Safety</td>
<td>AIMS</td>
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<tr>
<td>BHS</td>
<td>8310</td>
<td>Construction</td>
<td>CAR 102</td>
<td>Hand and Power Tools</td>
<td>AIMS</td>
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<tr>
<td>BHS</td>
<td>8426</td>
<td>Principles of Emergency Service</td>
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<td>FREN 2110</td>
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<td>IND 105</td>
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<td>HTE 1533</td>
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<td>8136, 8137</td>
<td>ProStart 2</td>
<td>HTE 1603</td>
<td>Food Preparation and Sanitation</td>
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<td>CRJ 110</td>
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<td>WEL 100</td>
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<td>CRJ 145</td>
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<td>BIO 111</td>
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</table>
**E³: Explore, Engage, and Expand**

Students bring their strengths, curiosity, and passions to E³, collaborating with teachers, parents, and community members to design personalized projects and pathways in pursuit of life, independence, and academic excellence.

E³ is a part-time, personalized learning program available to students, in grades K – 12, enrolled in Thompson School District. Students have the opportunity to work with community professionals and stakeholders from the Northern Colorado area. Current student projects include work in non-destructive testing, automotive mechanics, fabrication, and engineering, oil and gas, theatrical makeup and set design, and law enforcement.

E³ mentor/student teams are established to facilitate a safe, open environment that provides an educational opportunity beyond classroom walls, while fostering deep learner satisfaction and engagement. Students learn alongside industry experts from the local community who generously share their time and talents to provide authentic learning experiences in the student’s areas of passion interest.

The program provides opportunities for career and talent exploration in addition to establishing professional relationships, all while students remain in school. Visit [https://e3learningtsd.org/](https://e3learningtsd.org/), for more information.
International Baccalaureate Programme at Loveland High School

The International Baccalaureate Programme is an interdisciplinary, intercultural, inquiry-based approach to education. Loveland High School has been an IB World School since 2007.

IB classes are open to any interested student. Any student wishing to begin participating in the IB MYP or DP should complete the Intent to Participate form. Those forms are available through the LHS Counseling Department, IB Office or the LHS IB website: www.thompsonschools.org/domain/1372

Should you have any questions about the IB MYP or DP at Loveland High School, please contact:
John Parks, LHS IB Coordinator john.parks@thompsonschools.org, 970.613.5282
Niki Weitzel, IB DP and GT Counselor niki.weitzel@thompsonschools.org, 970.613.5205
Ben Holloway, IB MYP Counselor benjamin.holloway@thompsonschools.org, 970.613.5209

Loveland High School offers the Middle Years Programme, which is available 6th – 10th grade (LEMS 6th-8th and LHS 9th and 10th) as well as the Diploma Programme for 11th and 12th grade.

The Middle Years Programme (MYP) is open to any 9th and 10th grade student, who is willing to engage in inquiry-based, student-centered learning. Students interact within eight integrated areas of study and learn to view the world through a variety of lenses, known as Global Contexts. Students expand their experience and skills base through a Community Project in 9th grade and a Personal Project in 10th grade.

MYP teachers design thematic, interdisciplinary units to encourage skills that foster an understanding of knowledge within the eight areas of study. They also design lessons that instill the IB Learner Profile in their students. MYP teachers create standards-based assessments where students show what they know and demonstrate how they arrived at that understanding.

The Diploma Programme (DP), founded in 1968 in Geneva, Switzerland, is a rigorous course of college-level study in the 11th and 12th grades. It is widely recognized and honored at universities around the world. The 2-year, full Diploma Programme (DP) encompasses 6 areas of study: English Literature; Spanish, German or French; History of the Americas or Business and Management; Biology and/or Chemistry; Mathematics; and Music. A full IB Diploma candidate chooses three of these subjects to complete at the Higher Level (HL) and three at the Standard Level (SL). Full IB Diploma candidates sit for exams in each of the six subject areas in May. The DP Core consists of a Theory of Knowledge course, completing and reflecting upon CAS (Creativity, Activity and Service) experiences and writing an Extended Essay on a subject of their choice.

Students may also choose to take any number of individual IB classes without enrolling in the full DP. In this case, a student is considered an IB Course candidate. An IB Course candidate will also sit for exams in May. Like full diploma candidates, Course candidates may earn college credit upon successful completion of their IB course work and exams. IB course candidates are highly encouraged to complete the DP Core, as each of the DP courses stem from the DP Core, which gives students excellent preparation for college coursework.

The IB Programmes aim to educate the whole person, developing them mentally, ethically and physically. It offers flexibility for the students to develop their individual interests through ongoing projects, as well as becoming well-rounded through a broad-based curriculum. Additionally, the IB is an internationally-recognized and respected program.

Depending on individual university policies, students may earn college credits based on their IB scores. Specific details about college-IB equivalency scores are available via individual university websites. For your convenience, equivalency scores for some of the most commonly attended universities are available through the LHS IB DP page: http://thompson.k12.co.us/domain/1373
Students must earn a minimum overall score on their IB assessments to receive their IB Diploma. IB Diplomas are awarded in July, following graduation. Full IB Diploma candidate testing currently costs approximately $842 (May 2016) for all six exams, fees, and Theory of Knowledge and Extended Essay evaluation. Current fees for course candidates include a $164 registration fee and a $113 fee per subject exam. Low-income students on the free and reduced lunch program are eligible for significant subsidization on the IB testing fees through the CDE’s ESCAPE grant. Students will receive a Loveland High School Diploma in May upon completion of district requirements.

**IB Learner Profile**
As learners we strive to be inquirers, knowledgeable, thinkers, communicators, principled, open-minded, risk-takers, balanced, reflective, and caring.

- International Baccalaureate Organization (IBO)

**IB Mission Statement**
The International Baccalaureate aims to develop inquiring, knowledgeable and caring young people who help to create a better and more peaceful world through intercultural understanding and respect.

To this end the organization works with schools, governments and international organizations to develop challenging programmes of international education and rigorous assessment.

These programmes encourage students across the world to become active, compassionate and lifelong learners who understand that other people, with their differences, can also be right.

**IB MIDDLE YEARS PROGRAMME (MYP) LHS**
**Course of Study: Grades 9-10**
- Language and Literature: English
- Language Acquisition: Spanish, German or French
- Individuals and Societies: Civics, Geography and World History
- Mathematics
- Arts: Visual and Performing
- Sciences: Geophysical Lab, Biology, Chemistry, Environmental Science
- Design: Manufacturing, Geometry in construction, Computer Applications
- Physical Education: Fitness and Health
- Other: graduation requirements, electives, etc.

**Other MYP Certificate of Completion Requirements**
- **Community Project**—During the 9th-grade year students participate in meaningful 15-hour Community service project that reflect the IB Learner Profile, Approaches to Learning, and the IB mission statement. The service may be direct (volunteering at a nursing home), indirect (writing a children’s book about the US government), advocacy (creating an anti-bullying campaign) or research (investigating the impacts of peregrine falcon reintroduction efforts). MYP 9th graders may choose to do their project during the fall or spring semester.

- **Personal Project** (.50 credit) - During their 10th-grade year, students create a meaningful piece of work, connected to the MYP, that is the product of the student's own initiative and design. Students’ personal projects are displayed during a personal project night.

**Approaches to Learning (ATL)**
MYP courses and assessment criteria are based around the development of skills critical to success, identified as the Approaches to Learning. These five skill categories are: communication skills, social and collaboration skills, self-management skills (organization, affective and reflective skills), thinking skills (critical-thinking, creative thinking and transfer skills) and research skills (information literacy and media literacy).
**ENGLISH 9 IB MYP**
Credit: 1.0 Language Arts

*In English 9 IB MYP, students will:*
- increase their background in reading and writing
- read texts from different cultures and genres and respond to them in writing
- engage with texts both in writing and discussion
- be asked to think critically about the world around them and respond creatively to the problems that arise in humanity

**CIVICS/GEOGRAPHY IB MYP**
Credit: 1.0 Social Studies

*In Civics IB MYP, students will:*
- analyze the philosophical, political and legal systems of the United States, focusing on the role of the citizen in a participatory democracy
- make connections between traditional subjects and real world implications so as to cultivate global, critical and reflective thinkers

*In Geography IB MYP students will:*
- study our world and its inhabitants
- increase their awareness on what it means to be a global citizen
- be learning from a world-view and encouraged to respect cultural similarities and differences

**TENTH GRADE ENGLISH AND WORLD HISTORY IB MYP**
- English 10 IB MYP 1310, 1311
- World History IB MYP 4310, 4311
Credit: 1.0 Language Arts and 1.0 Social Studies

*IB MYP English 10 and IB MYP World History are integrated interdisciplinary and concurrent courses. In these courses, the students will:*
- be challenged to recognize the content and methodologies in readings concerning the events and ideologies shaping the 20th century and how they affect the present
- develop their reading, writing, and speaking skills so as to present clear, concise, logical and relevant arguments.
- recognize the thesis in the written works of others
- distinguish between primary and secondary source material

**WORLD LANGUAGES LEVEL 1 IB MYP**
- FRENCH 7300, 7301
- GERMAN 7302, 7303
- SPANISH 7304, 7305
Credit: 1.0 World Language

The Level 1 World Language classes are one-year courses that focus on communicating in the language as well as learning about the products, practices and perspectives of the target cultures. A world language is required in every year and every level of the IB Programme.

*In World Languages Level 1 IB MYP, students will be able to:*
- confidently give personal information about themselves and others
- begin to use the language for daily functions, giving directions and buying things
IB Middle Years Programme (MYP)

**WORLD LANGUAGES LEVEL 2 IB MYP**
- FRENCH 7310, 7311
- GERMAN 7312, 7313
- SPANISH 7314, 7315

Credit: 1.0 World Language

*If student has met the World Language graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*

Recommendation: successful completion of level 1 in the same language

The Level 2 World Language courses focus on the development of the students’ communicative competence and their understanding of the target cultures. A world language is required in every year and every level of the IB Programme.

*In World Languages Level 2 IB MYP, students will be able to:*
- speak and write in sentences
- read simple, straight-forward information about things they are interested in as well as readings from daily life
- link short sentences together using transition and sequencing words when talking and writing. “talk around” words they don’t know to find another way to get their point across
- distinguish the tense a speaker is using
- comprehend longer passages and texts than in level 2

**WORLD LANGUAGES LEVEL 3 IB MYP**
- FRENCH 7306, 7307
- SPANISH 7308, 7309

Credit: 1.0 World Language

*If student has met the World Language graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*

Recommendation: successful completion of level 2 in the same language

Having reached this level of proficiency, the students are confident communicating about normal, everyday matters. A world language is required in every year and every level of the IB Programme.

**GEOPHYSICAL LAB IB MYP**

- 3302, 3303

Credit: 1.0 Science

*In Geophysical Lab Science IB MYP, students will:*
- use an inquiry-based approach to explore the earth and the universe around it
- use scientific investigation to explore experimental design, matter and minerals, rocks, geologic processes, Earth History, Astronomy, Oceanography, Hydrology and Meteorology
- participate and reflect on lab experiences

**BIOLOGY IB MYP**

- 3300, 3301

Credit: 1.0 Science

Fee: None

Biology is a graduation requirement and IB Biology does not have a prerequisite. Therefore, this course is particularly intended for students not planning on taking IB Biology.

*In Biology IB MYP, students will:*
- use an inquiry-based approach and the scientific method to learn about living things and their makeup
- explore the principles of Biochemistry, Cytology, Genetics, Ecology, Evolution, Classification and Anatomy/Physiology
- Use the scientific method in laboratory experiences
**CHEMISTRY IB MYP**
Credit: 1.0 Science

*In Chemistry IB MYP, students will:*
- explore an inquiry-based introduction to the study of matter
- Areas of study include: Atomic structure, the Periodic Table, chemical reactions, bonding, quantitative chemistry, states of matter and solutions and acid/base chemistry

**ENVIRONMENTAL SCIENCE IB MYP**
Credit: 1.0 Science

*In Environmental Science IB MYP, students will use an inquiry-based approach to:*
- explore aspects of ecosystems, human and animal populations, energy, atmosphere, wildlife and natural resource management
- gain sufficient knowledge to be able to make better decisions about environmental and health-related issues facing our society

**ALGEBRA 1 IB MYP**
Credit: 1.0 Math

*In Algebra 1 IB MYP, students will:*
- develop logical, critical and creative thinking skills
- focus on the Algebra 1 standards and critical areas, using an inquiry-based approach to acquiring mathematical skills

**ALGEBRA 1 IN MATERIALS, PRODUCTS, ENERGY and DESIGN IB MYP (AMPED)**
- Materials, Products, Energy and Design IB MYP
- Algebra 1 IB MYP

*AMPED, students will:*
- receive extensive guidance through career planning with a desired outcome and plan a career/educational trajectory after high school graduation as prescribed by ICAP
- gain exposure to properties of various materials the human world is comprised of in product development and management
- design innovative concepts and solutions to solve current and future problems using a number of computer aided drafting and design (CADD) software programs
- learn safety, problem solving, and proper tool selection and use
- learn Algebra 1 content and its importance and relationship in a number of career pathways as outlined on the Colorado Career Cluster Model
- use various problem solving strategies
- express, interpret, and graph functions
- use variables to represent relationships from tables and graphs
- solve linear and quadratic equations and systems of linear equations
- use ratio, proportion, and direct variation from numerical, geometric, and algebraic perspectives
**IB Middle Years Programme (MYP)**

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<td>GEOMETRY IB MYP</td>
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<td>Credit: 1.0 Math</td>
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<tr>
<td>Recommended: Algebra 1 IB MYP</td>
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</table>

**In Geometry IB MYP, students will:**
Emphasize a balanced combination of procedure and conceptual understanding focusing on five critical areas:
- using transformations to mathematically analyze and describe objects in the plane
- developing concepts of similarity which are foundational to geometry and its applications
- algebraically describing and analyzing objects in the plane
- measuring and quantifying attributes of two- and three-dimensional objects
- using geometric concepts to model real world objects

This critical content will be engaged by use of eight mathematical practice standards to facilitate students’ ability to transfer and apply their mathematical knowledge to new and novel situations.

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<th>Code</th>
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<td>GEOMETRY IN CONSTRUCTION IB MYP</td>
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<td>- Geometry IB MYP</td>
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<td>- Geometry Construction IB MYP</td>
<td>8354, 8355</td>
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<td>Credit: 1.0 Math</td>
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<td>Credit: 1.0 Applied Arts (Classes Prior to 2021)</td>
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<td>Credit: 1.0 Math and 1.0 Career Pathway Elective (Class of 2021-2023)</td>
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<td>Recommended: Algebra 1</td>
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**In Geometry in Construction IB MYP, students will:**
- be exposed to construction careers such as engineering, architecture, construction management, interior design, landscape architecture, and surveying
- learn safety, problem-solving tool use, and drawing interpretation
- understand the interrelation of geometry and construction
- use coordinate geometry in the study of area, perimeter, volume, transformations, congruence, and functions

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<td>ALGEBRA 2 IB MYP</td>
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<td>Credit: 1.0 Math</td>
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<td>Recommended: Geometry</td>
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**In Algebra 2 IB MYP, students will:**
- visualize, express, interpret and graph functions
- solve any real linear or quadratic equation in one, two, three or more variables
- extend the use of trigonometry to the laws of sines and cosines and connect right triangle definitions with the trigonometric functions
- apply mathematics to problems in economics, biology, chemistry and physics

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<thead>
<tr>
<th>Course</th>
<th>Code</th>
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<td>TRIGONOMETRY/FUNCTIONS IB MYP</td>
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<td>Credit: 1.0 Math</td>
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<tr>
<td>Recommended: Algebra 2 IB MYP</td>
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</table>

**In Trigonometry/Functions IB MYP, students will:**
- solve systems of equations
- graph and solve various polynomial, exponential and logarithmic functions
- use identities to solve and graph trigonometric functions
- describe transformations and graph various functions and conic sections
IB Middle Years Programme (MYP)

FITNESS IB MYP 7630
Credit: .50 Fitness

In Fitness IB MYP, students will:
• use inquiry to explore fitness concepts
• understand the value of physical fitness and a balanced lifestyle
• demonstrate the knowledge and competent skills to participate in regular fitness activities
• plan, carry out and reflect upon a physical fitness plan

COMPUTER GRAPHICS - ART 1 IB MYP 6611
Credit: .50 Fine Arts
Fee: $15 per semester

In Computer Graphics Art 1 IB MYP, students will:
• explore basic concepts and techniques used in graphic design
• apply design principles to create original graphics
• be proficient in visual communication and personal expression
• use a paint program, an illustration program, and a photo program
• create a digital portfolio
• focus on media literacy and its implications in our society
• learn about advertising, copyright, and career opportunities

IB MYP PERSONAL PROJECT 8692
Credit: .50 Elective (Classes Prior to 2021)
Credit: .50 Career Pathway Elective (Class of 2021-2023)
*This class may be scheduled to meet outside of the normal school day

Through the IB MYP Personal Project, students will:
• demonstrate the personal abilities and skills required to produce and present an extended piece of work created by the student’s own initiative and design
• engage in person inquiry, action and reflection on specific topics and issues
• focus on and demonstrate an understanding of a global context
• reflect on learning and share knowledge, view and opinion
**IB Diploma Programme (DP)**

**Course of Study: Grades 11-12**
- Language A English Literature HL
- Language Acquisition SL: Spanish, French or German
- History of the Americas HL
- Sciences: Biology HL/SL, Chemistry HL/SL
- Math Studies SL, Mathematics HL/SL, Further Math HL
- Music SL
- Theory of Knowledge

**Diploma Programme Core: TOK, EE, CAS**
These core elements of the DP have the aim of educating the whole person and providing the highest level of college preparedness.

- **Theory of Knowledge (TOK)**
  This is a one-year course reserved for full IB Diploma candidates. It is taught during the Spring semester of 11th grade and Fall semester of 12th grade. It is an epistemological course (the study of knowledge) about critical thinking and inquiring into the process of knowing.

- **Extended Essay (EE)**
  This is an extensive research essay of up to 4,000 words on the topic of the IB Diploma candidate’s choice is done under the supervision of an appropriate LHS teacher.

- **Creativity, Activity and Service (CAS)**
  With the goal of developing the IB students’ interests, an IB Diploma candidate must engage in at least 150 hours of extra-curricular activities over the 11th and 12th grades which the students regularly reflect upon.
IB Diploma Programme (DP)

**IB HISTORY OF AMERICAS / ECONOMICS**

Credits: .50 Elective (Class of 2018-2021)
Credits: .50 Career Pathway Advanced Elective (Class of 2021-2023)

**IB DP THEORY OF KNOWLEDGE (TOK) – Grade 12**

Credits: .50 Speech (Classes Prior to 2021)
Credits: .50 Language Arts (Class of 2021-2023)

*If student has met the Language Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*

This course will be taught as a student-centered seminar. This course is available to all DP students (IB Diploma or course candidates) and requirement to complete the EE and CAS requirements, regardless of being an IB diploma candidate.

As TOK progresses, students will:

- identify interdisciplinary relationships in the pursuit of knowledge. Specifically, developing an understanding of areas of knowledge, such as: natural and human sciences, ethics, the arts, math and history.
- explore ways of knowing, such as: reason, sense perception, language, emotion, and imagination, and apply them to the areas of knowledge.
- regularly engage in creative, reflective and critical evaluation of questions related to knowing, and become critical agents who actively reflect on the choices made in the creation of knowledge.
- recognize the cultural diversity through diverse ways of knowing and appreciate that other people, with diverse beliefs, can also be right.
- develop the power of expression, both in written communication and oral discussion and presentation.
- concurrent completion of the Extended Essay and CAS are requirements for enrolling in TOK.

**IB DP ENGLISH LANGUAGE A: LANGUAGE and LITERATURE (HL)**

- Grade 11 1322, 1323
- Grade 12 1332, 1333

Credit: 1.0 Language Arts for each course

*If student has met the Language Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*

The two-year IB DP English Language and Literature program is designed to:

- introduce students to a range of fiction and non-fiction texts from different periods, styles, genres, and regions
- develop in students the ability to engage in close, detailed literary analysis and make relevant connections
- develop the students’ powers of expression, both in written communication and formal oral presentations
- encourage students to recognize the importance of the contexts in which texts are written and received through the use of literary lenses
- encourage, through the study of texts, an appreciation of the different perspectives of people from other cultures, and how these perspectives construct meaning
- promote in students an enjoyment of, and lifelong interest in, language and literature

The course is divided into four parts:

- Part 1: Language in cultural context
- Part 2: Language and mass communication
- Part 3: Literature – texts and contexts
- Part 4: Literature – critical study
**IB Diploma Programme (DP)**

### IB DP LANGUAGE B (SL)

- IB DP French 3  
  - 7320, 7321
- IB DP French 4  
  - 7330, 7331
- IB DP French 5  
  - 7336, 7337
- IB DP German 3  
  - 7322, 7323
- IB DP German 4  
  - 7332, 7333
- IB DP Spanish 3  
  - 7324, 7325
- IB DP Spanish 4  
  - 7334, 7335
- IB DP Spanish 5  
  - 7338, 7339

Credit: 1.0 World Language for each course

**If student has met the World Language graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)**

Recommended: Successful completion of the prior level

The two-year IB DP Language B program is designed to:

- draw their language and cultural knowledge from a variety of sources, including newspapers, magazines, podcasts, recordings from radio and television programs, and from literature, all built around the three core topics: social relationships; global issues; communication and media, and two of the five options: cultural diversity; customs and traditions; health; leisure; science and technology
- prepare to use the language appropriately in a range of situations and contexts for a variety of purposes
- develop a global communicative approach that is built upon the receptive skills of reading and listening and the production skills of speaking and writing
- explore geographic, ethnic, and cultural knowledge of the speaking world, learning the skills necessary to be socially appropriate in specific situations
- understand spoken language when it is delivered at moderate normal speed by native speakers in various situations, (face-to-face, video, radio, and recordings)
- develop vocabulary and language structure to comprehend and communicate appropriately

### IB DP HISTORY OF THE AMERICAS HL

- IB History of Americas 11  
  - 4320, 4321
- IB History of Americas 12 /Economics  
  - 4334, 4335

Credits: 1.0 Social Studies for each course

**If student has met the Social Studies graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)**

This Higher Level History Program is a two-year curriculum. It is a comparative course that integrates the histories of Canada, Latin America and the United States. It is designed to promote an awareness and understanding of the countries in the Western Hemisphere through a comparative analysis of cultural, political, social and economic issues. The second year includes a study of the Principles of Economics during the first semester.

**Students will:**

- be able to assess the relevance, reliability and importance of historical materials
- be able to weigh the evidence presented in historical evidence
- be able to analyze and interpret primary sources (historical documents, maps, statistical tables, and pictorial and graphic evidence)
- write essay examinations, analytical and research papers
- express themselves with clarity, precision and know how to cite sources and credit the writing and ideas of others
- develop critical thinking skills by applying economic theory to historical inquiry
**IB Diploma Programme (DP)**

### IB DP BUSINESS AND MANAGEMENT SL

<table>
<thead>
<tr>
<th>Credits:</th>
<th>1.0 Applied Arts (Classes Prior to 2021)</th>
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<tr>
<td><strong>Pathway:</strong></td>
<td>Business and Marketing - Business, Marketing and Public Administration</td>
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<td><strong>Pathway:</strong></td>
<td>Business and Marketing - Business, Marketing and Public Administration</td>
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*This class may be scheduled to meet outside of the normal school day*

**In IB DP Business and Management, students will:**
- explore the ethics and phases of the business process
- explore internet use and applications in business
- choose to focus on web based projects
- choose to focus on management skills

### IB DP MATH STUDIES SL

<table>
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<tr>
<th>Credit:</th>
<th>1.0 Math</th>
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*If student has met the Math graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*

IB DP Math Studies is designed to continue with skills learned by students in their Algebra 2 course. The course uses problem solving strategies in conjunction with knowledge of the inter-connections among algebra, geometry, and functions to analyze problems and formulate appropriate solutions and to extend current knowledge by making new connections.

**In IB Math Studies, students will:**
- be able to demonstrate skills in the afore mentioned math topics
- be able to apply mathematical principles and terminology
- be able to demonstrate competence in mathematical methods
- be able to apply research skills in solving mathematical problems
- use reasoning when applying mathematical skills
- be able to communicate their process and outcomes both written and orally

### IB DP MATHEMATICS HL/SL

- **IB DP Mathematics SL 11 (Calculus AB)**  | 2320, 2321 |
- **IB DP Mathematics HL 11 (Calculus BC)**  | 2322, 2323 |
- **IB DP Mathematics SL 12**  | 2330, 2331 |
- **IB DP Mathematics HL 12**  | 2332, 2333 |

*Credit: 1.0 Math for each course*

*If student has met the Math graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)*

This course is designed to take students from Calculus AB or BC to explore higher-level mathematical concepts. The first semester will have an emphasis on discrete mathematics.

**In IB DP Mathematics HL/SL, students will:**
- develop an appreciation for the nature of mathematical models, their graphs, and their application to optimizing physical and economic systems
- be able to apply research skills in solving mathematical problems
- use reasoning when applying mathematical skills
- be able to communicate their process and outcomes both written and orally
IB Diploma Programme (DP)

**IB DP BIOLOGY HL**
- IB DP Biology 11 HL 3320, 3321
- IB DP Biology 12 HL 3334, 3335

Credits: 1.0 Science for each course

This two-year course will emphasize the experimental nature of science and the scientific method as well as the content of a typical introductory college biology course.

In IB DP Biology, students will:
- spend time planning experiments, conducting experiments and learning various lab techniques, organizing and analyzing data, and making valid conclusions based upon these data
- become familiar with the growing field of biochemistry as they learn about the molecules of life, enzyme activity, cellular respiration, photosynthesis, DNA replication, and protein synthesis
- explore the relationship between structure and function as they learn parts of cells and functions of plant and animal systems
- know the unity of life, and its diversity, as they study mitosis, genetics, and taxonomy
- study equilibrium in relation to physiology of animal, especially human, systems
- understand the interdependence of organisms the world over will be emphasized in the ecology topics
- have the opportunity to design, conduct, evaluate, and communicate about a scientific investigation
- provide a body of knowledge for biology, including unifying concepts, themes of structure and function, equilibrium, universality, diversity, and evolution
- identify the connections among the various branches of science and between science and other fields
- emphasize global contexts for biology, such as the greenhouse effect, pollution, immunology, or the Human Genome Project
- develop interpersonal skills in group work during scientific investigations and in oral/written communication

**IB DP CHEMISTRY HL**
- IB DP Chemistry 11 HL 3322, 3323
- IB DP Chemistry 12 HL 3336, 3337

Credits: 1.0 Science per year

This two-year course introduces students to concepts required for solving problems both qualitative and quantitative in chemistry for understanding chemical reactivity.

In IB DP Chemistry HL, students will:
- develop analytical thinking skills
- design and conduct chemical investigations and then analyze and interpret their data, develop relevant equations from graphs of data and communicate their findings via formal laboratory reports
- data and communicate their findings via formal laboratory reports
- provide a body of knowledge of chemistry including unifying themes
- develop correlations between chemical bonding, oxidation-reduction and the Kreb cycle, etc.
- apply their chemical knowledge to large global problems
- develop interpersonal cooperative skills during science investigation and in oral and written forms of communication
**IB Diploma Programme (DP)**

**IB DP MUSIC SL**

LHS  
Credit: 1.0 Fine Arts  
If student has met the Fine Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)

*This class may be scheduled to meet outside of the normal school day*

This course will focus on preparing the IB diploma candidate for the Standard Level IB DP Music assessment. Emphasis will be placed on immersing the student in the time period/culture being studied through performing, composing, imitating writing and listening in each unit.

In IB DP Music SL, students will:
- develop their acquisition of knowledge and understanding of music from a variety of cultural, historical, and stylistic perspectives
- develop appropriate abilities and skills to recreate music of other composers
- create music through their own compositions
- develop a historical perspective of the music throughout western history including our own time and how music reflects the society in which it was created
- develop a perspective of the music world cultures and how this music reflects the society in which it is created
- experience making music through a variety of performance opportunities genres, and ensemble types

**IB DP PSYCHOLOGY 1**

LHS  
Credit: 1.0 Social Studies

**IB DP PSYCHOLOGY 2**

LHS  
Credit: 1.0 Social Studies  
If student has met the Social Studies graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)

The IB Diploma Programme psychology course aims to develop an awareness of how research findings can be applied to better understand human behavior and how ethical practices are upheld in psychological inquiry. Students learn to understand the biological, cognitive and sociocultural influences on human behavior and explore alternative explanations of behavior. They also understand and use diverse methods of psychological inquiry.

IB DP Psychology 1 can be taken by juniors or seniors at LHS and students have the opportunity to test at the standard level (SL). Students intending on testing at the higher level (HL) will need to take IB DP Psychology 1 as a junior and IB DP Psychology 2 as a senior and testing their senior year.

**IB DP VISUAL ARTS (SL)**

LHS  
Credit: 1.0 Fine Arts  
If student has met the Fine Arts graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023)

The IB Diploma Programme visual arts course encourages students to challenge their own creative and cultural expectations and boundaries. IB DP Visual Arts students will
- Develop analytical skills in problem-solving and divergent thinking
- Work towards technical proficiency and confidence as art-makers
- Explore and compare visual arts from different perspectives and in different contexts
- Engage in, experiment with and critically reflect upon a wide range of contemporary practices and media

The course is designed for students who want to go on to study visual arts in higher education as well as for those who are seeking lifelong enrichment through visual arts.
The Loveland area Integrated School of the Arts (LISA) is an arts magnet school housed within the walls of Mountain View High School. It opened August 2007 with its first freshman class and expands each year with the addition of a new ninth grade class.

**Why should I choose LISA?**
LISA is a pre AP Honors program featuring an advanced, arts-integrated curriculum in language arts, social studies, and science. Creative and critical thinking utilizing research-based thinking strategies is emphasized. The LISA staff works as a team to meet the individual needs of the students, collaborating to integrate the arts into the core curriculum and to ensure that the curriculum addresses various learning modalities utilizing the visual and performing arts (music, visual arts, drama, and dance).

The Arts focused activities are provided through visual and performing arts courses, music academies, theatre experiences, and arts showcases. Connections to the local arts community are fostered through arts-related community service projects and artist-in-residence programs.

LISA provides the motivated student a challenging curriculum in the setting of a modern, comprehensive high school. In addition to the required LISA courses, LISA students are encouraged to take college-level Advanced Placement® (AP) courses as well as any MVHS course for which they have taken the recommended courses. The school-within-a-school framework affords LISA students all the diverse opportunities available in a large, comprehensive high school including access to the full range of extracurricular, athletic, and activities programs.

The LISA program develops talent and encourages the pursuit of excellence in the fields of visual and performing arts. The program sparks curiosity in students and gives them opportunities to perform, appreciate, and understand the arts in a variety of cultures.

**Applying to Join LISA**
Interested students must complete a LISA entrance application. This application includes several short answer questions, a teacher recommendation, as well as a brief video portrait of the candidate presenting him/herself as a student and artist. Once students have been notified of their acceptance status, they may register for the required LISA courses.

The LISA application can be downloaded at: [https://www.thompsonschools.org/mountainview](https://www.thompsonschools.org/mountainview) (click on the LISA link) or picked up at Mountain View High School in the Mummy Range Office. Applications can be submitted online to lisa.application@thompsonschools.org, turned in at the MVHS Mummy Range Office, or mailed to

LISA  
c/o Mummy Range Office  
3500 Mountain Lion Drive  
Loveland, CO 80537

**LISA Required Courses**
Following are the LISA course offerings. These classes take up only a portion of the student’s schedule each semester, which allows enrollment in a variety of other MVHS courses including Advanced Placement and other classes of interest to the individual student.

For more information, please email Gwynne.johnson@thompsonschools.org or call 970.613.7834
### LISA Courses

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Code(s)</th>
<th>Credit:</th>
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<tbody>
<tr>
<td><strong>LISA PRE AP ENGLISH 9</strong></td>
<td>1200, 1201</td>
<td>1.0 Language Arts</td>
</tr>
<tr>
<td><strong>LISA CIVICS HONORS</strong></td>
<td>4200, 4201</td>
<td>1.0 Social Studies</td>
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<tr>
<td><strong>LISA CIVICS INTEGRATED WITH ECONOMICS HONORS</strong></td>
<td>4014, 4015</td>
<td>1.0 Social Studies</td>
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<tr>
<td><strong>LISA PRE AP WORLD GEOGRAPHY 1</strong></td>
<td>4210</td>
<td>1.0 Social Studies</td>
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<tr>
<td><strong>LISA PRE AP WORLD GEOGRAPHY 2</strong></td>
<td>4211</td>
<td>1.0 Social Studies</td>
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<tr>
<td><strong>LISA PRE AP GEOPHYSICAL</strong></td>
<td>3200, 3201</td>
<td>1.0 Science</td>
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</tbody>
</table>

#### LISA PRE AP ENGLISH 9, students will:
- use the visual and performing arts as an emphasis to learn the content listed below
- learn and identify language skills, use correct mechanics, and study vocabulary
- read, respond, and apply thinking skills to novels, short stories, nonfiction, poetry and a Shakespeare play
- write, using the writing process, compare/contrast, cause/effect, and problem/solution short responses and essays
- present a problem/solution or cause/effect presentation

#### LISA CIVICS HONORS, students will:
- use the visual and performing arts as an emphasis to learn the content listed below
- gain an understanding of the law and the legal system of the United States
- be aware of current issues and be encouraged to participate as citizens in the legal system
- receive an introduction to the origin and development of our legal system
- perform required community service

#### LISA CIVICS INTEGRATED WITH ECONOMICS HONORS, students will:
- use the visual and performing arts as an emphasis to learn the content listed below
- gain an understanding of the law and the legal system in the United States
- be aware of current issues and be encouraged to participate as citizens in the legal system
- receive an introduction to the origin and development of our legal system and government
- perform required community service
- develop an understanding of the basics of microeconomics and macroeconomics
- study the American economic system, other types of economic systems, their functions, and their effects around the world

#### LISA PRE AP WORLD GEOGRAPHY 1 and 2, students will:
- use the visual and performing arts as an emphasis to learn the content listed below
- be presented to a geographic view of the world through the use of the five themes of geography
- develop map skills that will enable them to analyze human interaction between cultures and the environment

#### LISA PRE AP GEOPHYSICAL, students will:
- use the visual and performing arts as an emphasis to learn the content listed below
- investigate astronomy, meteorology, hydrology, geology, and paleontology
- quantitatively analyze the above subjects with introductory concepts and tools from chemistry and physics to increase critical skills
LISA Courses

**LISA PRE AP BIOLOGY**
Credit: 1.0 Science

*In LISA Pre AP Biology, students will:*
- use the visual and performing arts as an emphasis to learn the content listed below
- meet selected state standards through the study of scientific method, cell biology, classification, genetics, ecology, science and technology

**LISA ARTS and CULTURE 1**
Credit: .50 Fine Arts

*In LISA Arts and Culture 1, students will:*
- read literature/drama, view works of art and listen to music from the Prehistoric era of time through the Renaissance period
- gain an understanding of how visual art, theatre dance, and music help shape society
- make connections between arts and culture and their core classes

**LISA ARTS and CULTURE 2**
Credit: .50 Language Arts
Recommended: LISA Arts and Culture 1 recommended

*In LISA Arts and Culture 2, students will:*
- read literature/drama, view works of art, and listen to music from the Renaissance in Europe through the Mid-20th century
- gain an understanding of how visual art, theatre, dance, and music help shape society
- fulfills English 12 requirement
- interpret and evaluate complex informational texts that require the understanding of rhetoric, critical reading, and analysis skills
- articulate a position through a sophisticated claim or thesis statement and advance it using evidence, examples, and counterarguments in writing
- deliberately manipulate the conventions of standard English for stylistic effect appropriate to the needs of a particular audience and purposes
- conduct independent research, articulate and defend information, conclusions, and solutions that address specific contexts and purposes

**LISA CAPSTONE**
Grade 12
Credit: .50 Speech (Class 2018-2020)
Credit: .50 Language Arts (Class of 2021-2023)
Recommended: Must be a LISA student

*In LISA Capstone, students will:*
- complete a variety of projects and written assignments asking them to reflect upon their arts-integration learning experiences, identifying who they are as learners and artists, and investigating opportunities for their postsecondary education and careers
- design and deliver a public presentation of learning known as their Capstone Performance
Berthoud and Mountain View High Schools are offering exciting STEM courses in pre-engineering. Any Thompson student from any high school may sign up to take the classes.

Project Lead the Way (PLTW) is a national nonprofit organization established to help schools give students the knowledge they need to excel in high tech fields. Studies of PLTW’s curriculum have proven that PLTW students become the kind of prepared, competent, high-tech employees U.S. industry needs to stay competitive in the global market.

**BENEFITS OF PLTW**
- early exposure and practical precollege application of concepts
- feeling better prepared for college
- greater confidence in all academic areas
- understanding what it takes to become an engineer
- project based, hands on
- school to Life

You might be surprised by the exciting variety students can find in the engineering world and how schools can help them find it. In fact, as the uses of science and technology expand in today’s job market, our nation will need a constant supply of engineers graduating from college in order to remain competitive in the world’s marketplace.

For decades, technical industries had a solid base of skilled workers, “high tech” was still an emerging employment sector, and the demand for technical jobs matched the supply. Today, with more than half of the country’s engineers and scientists nearing retirement, and with more than half of the students in college engineering programs dropping out before graduation, U.S. technical industries are in need of engineers and technical workers and not just a handful but more than one million. As always, American businesses are looking to schools to help them educate future engineers. This is where Project Lead the Way can help.

For more information, please contact
Aaron Berthold at MVHS 970.613.7808
Robert Sommerfeld at BHS 970.613.7719
## Project Lead the Way (PLTW) Course Offerings

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<tbody>
<tr>
<td><strong>INTRODUCTION TO ENGINEERING DESIGN</strong></td>
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<td>8400, 8401</td>
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<td><strong>May be eligible for college credit</strong></td>
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<td>Pathway: Project Lead the Way / Engineering - STEM, Arts, Design and Information Technology</td>
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<tr>
<td><strong>In Introduction to Engineering Design, students will:</strong></td>
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<td>• develop problem-solving skills using a design development process</td>
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<td>• models of product solutions are created, analyzed, and communicated using solid modeling computer design software</td>
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<tr>
<td><strong>PRINCIPLES OF ENGINEERING</strong></td>
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<td>8402, 8403</td>
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<td>Pathway: Project Lead the Way / Engineering - STEM, Arts, Design and Information Technology</td>
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<td><strong>In Principles of Engineering, students will:</strong></td>
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<td>• understand the field of engineering technology</td>
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<td>• explore various technology systems and manufacturing processes helps students learn how engineers and technicians use math, science, and technology in an engineering problem-solving process to benefit people</td>
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<td>• understand concerns about social and political consequences of technological change</td>
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<td><strong>DIGITAL ELECTRONICS</strong></td>
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<td>8404, 8405</td>
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<td>Pathway: Project Lead the Way / Engineering - STEM, Arts, Design and Information Technology</td>
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<td><strong>In Digital Electronics, students will:</strong></td>
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<tr>
<td>• use computer simulation to learn about the logic of electronics as they design, test, actually construct circuits and devices</td>
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<tr>
<td>• programmable logic, digital circuit prototyping, and soldering are examples of student activities</td>
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<tr>
<td><strong>COMPUTER INTEGRATED MANUFACTURING</strong></td>
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<td></td>
<td></td>
<td></td>
<td>Pathway: Project Lead the Way / Engineering - STEM, Arts, Design and Information Technology</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>In Computer Integrated Manufacturing, students will:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• learn concepts of robotics and automated manufacturing by creating three-dimensional designs with modeling software and producing models of their designs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Project Lead the Way (PLTW) Course Offerings

<table>
<thead>
<tr>
<th>Course</th>
<th>Code(s)</th>
<th>Location</th>
<th>Credit Details</th>
<th>Pathway Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AEROSPACE ENGINEERING</strong></td>
<td>8410, 8411</td>
<td>MVHS</td>
<td>1.0 Applied Arts (2018-2020) Credit: 1.0 Career Pathway Advanced Elective (Class of 2021-2023)</td>
<td>Pathway: Project Lead the Way / Engineering - STEM, Arts, Design and Information Technology</td>
</tr>
<tr>
<td><strong>ENVIRONMENTAL SUSTAINABILITY</strong></td>
<td>3080, 3081</td>
<td>BHS</td>
<td>1.0 Science Required Science Graduation Requirement. If student has met the Science graduation requirement this course will count towards the Career Pathway Advanced Elective Requirement (Class of 2021-2023). Recommended: Biology</td>
<td>Pathway: Project Lead the Way / Engineering - STEM, Arts, Design and Information Technology * College credit may be available</td>
</tr>
</tbody>
</table>

**In Aerospace Engineering, students will:**
- apply scientific and engineering concepts to design materials and processes that directly measure, repair, and improve systems in different environments
- aerospace principles and concepts are studied using GPS, wind tunnel, and rocketry activities

**In Engineering Design and Development, students will:**
This capstone course allows students to design a solution to a technical problem of their choosing. As this is an engineering research course, students will work in teams to research, design, construct, and test a solution to an open-ended engineering problem.

**In Environmental Sustainability, students will:**
- investigate and design solutions to solve real-world challenges including: world food security, renewable energy, and clean drinking water
- apply scientific and technical knowledge using an engineering design process and have the opportunity to help solve global challenges by creating and testing solutions such as genetically engineered bacteria, producing fuel from plants, and designs for emergency water filtration in disaster areas
Science Technology Engineering Math (STEM) at Berthoud High School

STEM Focus Program:
Berthoud High School offers students an opportunity for an excellent education in all curricular areas. One of Berthoud’s educational options is the STEM Focus Program. In the areas of math, science, and engineering and technology, Berthoud High School is proud of its outstanding faculty and curriculum in addition to its regionally respected Little Thompson Observatory, Thompson River Project, and Project Lead the Way curriculum. Berthoud High School partners with CSU, CU, and UCCS to add additional curricular offerings at an increased level of rigor and relevance for students who have the aptitude and passion to explore STEM careers. World competition in the area of math, science, engineering, and technology has prompted the Federal Government to encourage schools at all levels to increase exposure of these elements to students ensuring that the United States maintains its leading world edge. Berthoud High School is committed to that vision and to an ongoing goal of providing a curriculum of rigor and relevance.

Junior and Senior Year Project:
Students who commit to the STEM Program at Berthoud High School are required to complete an internship with higher education or industry in a STEM area. Topic selection and internship placement, facilitated by a faculty advisor, will occur during a student's junior year. The project or internship will culminate with a presentation to the faculty, administration, and mentors, and credit will be awarded, during student's senior year. The project or internship will have a well-defined purpose related to the STEM field. The project or internship will be waived for STEM students who choose to work toward an Associate of Arts Degree during their junior and senior year. Significant progress toward the A.A. Degree must be completed for the waiver.
The following courses in BOLD are the required math/science courses that will guide students through a rigorous curriculum. Italicized courses are additional learning opportunities that we strongly recommend.

### STEM PROGRAM COURSE REQUIREMENTS CLASS OF 2023

<table>
<thead>
<tr>
<th>Curriculum Focus</th>
<th>Minimum Required Credits</th>
<th>Course Name</th>
<th>Credits</th>
<th>Traditional Grade level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science</td>
<td>4</td>
<td>Pre-AP Geophysical Science and Pre-AP Biology</td>
<td>1.0</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pre-AP Chem</td>
<td>1.0</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AP Biology or AP Environmental Sci</td>
<td>1.0</td>
<td>10,11,12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AP Chemistry Or AP Physics</td>
<td>1.0</td>
<td>11, 12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other interest areas: Astronomy, Genetics, Anat and Phys, Thompson River, General Physics, Environmental Sci, Envir Sustainability</td>
<td></td>
<td>10-12</td>
</tr>
<tr>
<td>Math</td>
<td>4</td>
<td>Students that enroll in Alg 1 as a freshman will need to take 2 math classes in one year to be able to take an AP math class. (* preferred year to double up)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>AP Stats path</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Alg1/ Geom OR</td>
<td>1 or 2</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Geom/ Alg 2</td>
<td>1 or 2</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trig OR</td>
<td></td>
<td>11</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trig/ AP Statistics</td>
<td>1 or 2</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>.5</td>
<td>Senior Research</td>
<td>.5</td>
<td>12</td>
</tr>
<tr>
<td>Language Arts</td>
<td>4</td>
<td>English 9 or Pre-AP</td>
<td>1.0</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>English 10 or Pre-AP</td>
<td>1.0</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>English 11 or AP English Language</td>
<td>1.0</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td></td>
<td>English 12 or College Comp.</td>
<td>0.5</td>
<td>12</td>
</tr>
<tr>
<td>Social Studies</td>
<td>3</td>
<td>Civics</td>
<td>0.5</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>World Geography or AP Human Geography or World History</td>
<td>1.0</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Modern America or AP US History</td>
<td>1.0</td>
<td>11</td>
</tr>
<tr>
<td>Physical Education</td>
<td>1.0</td>
<td>Health</td>
<td>0.5</td>
<td>9</td>
</tr>
<tr>
<td>World Language</td>
<td>2</td>
<td>Spanish OR</td>
<td>0.5</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>French</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Career Pathways</td>
<td>1.5</td>
<td>Project Lead the Way - Choices</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Intro to Engineering</td>
<td>1.0</td>
<td>9-12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Principles of Engineering</td>
<td>1.0</td>
<td>10-12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Computer Integrated Manufacturing</td>
<td>1.0</td>
<td>10-12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Environmental Sustainability</td>
<td>1.0</td>
<td>10-12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Robotics</td>
<td>.5</td>
<td>9-12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Business - Choices</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Web Design</td>
<td>0.5</td>
<td>9-12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Computer Graphics</td>
<td>0.5</td>
<td>9-12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Computer Applications</td>
<td>0.5</td>
<td>9-12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Programing Concepts</td>
<td>0.5</td>
<td>9-12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Advanced Computer Applications</td>
<td>0.5</td>
<td>10-12</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AP Computer Science Principles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fine Arts</td>
<td>1</td>
<td>Music</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Art</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Career Pathways</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Please note: It's better to take these classes sooner rather than later in case there are scheduling conflicts.**
**STEM Required Courses**

Students need a minimum of 20 credits to graduate. They often have more. Bolded courses are required for a STEM diploma.

**STEM 4 Year Sample Schedule for Class of 2023**

<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>1</td>
<td>English 9 (1.0)</td>
<td>English 10 (1.0)</td>
<td>English 11 (1.0)</td>
<td>English 12 (1.0)</td>
</tr>
<tr>
<td>2</td>
<td>Math (1.0)</td>
<td>Math (1.0)</td>
<td>Math (1.0)</td>
<td>AP Math (1.0)</td>
</tr>
<tr>
<td>3</td>
<td>PreAP GeoPhys (1.0)</td>
<td>PreAP Chemistry (1.0)</td>
<td>AP Biological Req (1.0)</td>
<td>AP Physical Req (1.0)</td>
</tr>
<tr>
<td>4</td>
<td>PreAP Biology (1.0)</td>
<td>World (1.0)</td>
<td>Modern America (1.0)</td>
<td>Senior Research (0.5)/Econ</td>
</tr>
<tr>
<td>5</td>
<td>Civics (0.5)/</td>
<td>Speech (0.5)/</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Health (0.5)/Fitness (0.5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
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</tr>
<tr>
<td>8</td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Additional STEM Graduation Requirements** - Plug them into your schedule and check off the box.

- **0.5 Technology Credit** - Choose from: Web Design, Computer Applications, Programming Concepts, Computer Graphics, & AP Computer Science
- **1.0 Engineering credit** - Choose from: Intro to Engineering, Principles of Engineering, Computer Integrated Manufacturing, & Environmental Sustainability
- **2.0 credits of the same World Language** - Choose from Spanish or French
- **1.0 credit of Fine Art** - Choose from Visual Arts or Music
- **3.0 Career Pathway Electives** -
  - **3.0 Advanced Career Pathway Electives** - The additional 2.0 AP Science credits required for the STEM diploma will count toward this, plus the Senior Research. Choose an additional 0.5 credit that relates to your career plans.
Thompson Online Program

The Thompson Online Campus provides an online educational experience for students in grades K-12 enrolled in the Thompson School District. The Thompson Online Campus strives to create a student-focused learning environment. Student needs are identified and an online learning plan is developed. The end result is a personalized online learning experience for each student.

Students have the ability to access curriculum and assignments 24 hours a day, 7 days a week, from anywhere with an internet connection. Online teachers interact with students through multiple venues (including face to face and online), creating a virtual learning environment. Additional instructional delivery and feedback are available in our learning labs during the school year.

A student’s online experience is tailored to their instructional needs, pacing preferences, and lab/teacher support needs. Courses can be delivered in both a synchronous and an asynchronous manner allowing for enrollments throughout the school year. A synchronous enrollment is meant to work in conjunction with the school district’s semester schedule. An asynchronous enrollment is one in which a student begins and/or ends their semester-long class in a time period that may not line up with the traditional semester schedule. The Thompson Online Campus affords access to a variety of classes including credit recovery, core, comprehensive (NCAA Approved), AP/Honors (as needed), and CTE (coming soon) classes.
Aims Career Academy Information

Graphic Design – Loveland Campus

Certificates & Classes

<table>
<thead>
<tr>
<th>Course Information</th>
<th>1st Semester</th>
<th>Credit</th>
<th>2nd Semester</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGD 111 - Adobe Photoshop I</td>
<td>3</td>
<td>MGD 112 - Adobe Illustrator I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MGD 211 - Adobe Photoshop II</td>
<td>3</td>
<td>MGD 212 - Adobe Illustrator II</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Prerequisites

- See your high school counselor to determine if this program is offered for your school and for eligibility criteria for participation in the program.
- Complete the Career Academy scholarship application packet as provided by your high school.
- Able to find transportation to and from classes at Aims Community College.

Course Requirements

- New students may start in the fall OR spring semester as slot availability allows.
- Attendance is mandatory - Course work is not easily made up or able to be recreated at home
  - Excused absences may be granted for extenuating and documented circumstances.
  - All missed dates must be made up per the syllabus requirements.
- Internet and computer access to take online tests, quizzes, and assignments.
- If a student fails a class, he/she may not continue in program/take the next class in the sequence.

Materials Needed

- Textbooks and course materials will be supplied for Career Academy students at no charge.

Course Information

- The classes offer project-based, hands-on curriculum and creative design assignments.
- The skills learned in the classes for the Graphic Application Certificate are important skills for a successful career in the graphic design industry.
- All courses offered for the Graphic Applications Certificate count towards the Graphic Design Associates Degree at Aims. Therefore, if the certificates are completed and the student chooses to continue and earn that associate’s degree, the student will have fewer courses to complete than students that begin the degree after high school.

Career Path

- Graphic designers: Graphic designers are visual communication experts who design many products, including logos, ads, brochures, and product packaging.
- Employment of graphic designers is expected to grow as fast as average for all occupations through the year 2018, as demand for graphic design continues to increase from advertisers, publishers, and computer design firms.

Contact Information

<table>
<thead>
<tr>
<th>Career Academy Bridge Coordinator</th>
<th>Concurrent Enrollment Director</th>
<th>Graphic Design Department Chair</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courtney Alvarado Xospa</td>
<td>David Jones (970) 339-6659</td>
<td>Brian Dunning (970) 339-6479</td>
</tr>
<tr>
<td>(970) 339-6542</td>
<td><a href="mailto:david.jones@aims.edu">david.jones@aims.edu</a></td>
<td><a href="mailto:brian.dunning@aims.edu">brian.dunning@aims.edu</a></td>
</tr>
<tr>
<td><a href="mailto:courtney.alvaradoxospa@aims.edu">courtney.alvaradoxospa@aims.edu</a></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Aims Career Academy Information
Animation - Loveland Campus

Certificates & Classes

<table>
<thead>
<tr>
<th>Basic Animation Certificate</th>
<th>1st Semester</th>
<th>Credit</th>
<th>2nd Semester</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGD 142 – Digital Animatics</td>
<td>3</td>
<td>MGD 119 – Maya I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MGD 152 – 2D Animation Production</td>
<td>3</td>
<td>MGD 219 – Maya II</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Prerequisites
- See your high school counselor to determine if this program is offered for your school and for eligibility criteria for participation in the program.
- Complete the Career Academy scholarship application packet as provided by your high school.
- Able to find transportation to and from classes at Aims Community College.

Course Requirements
- New students may start in the fall OR spring semester as slot availability allows.
- Attendance is mandatory - Coursework is not easily made up or able to be recreated at home.
- Excused absences may be granted for extenuating and documented circumstances. All missed dates must be made up per the syllabus requirements.
- Internet and computer access to take online tests, quizzes, and assignments.
- If a student fails a class, he/she may not continue in program/take the next class in the sequence.

Materials Needed
- Textbooks and course materials will be supplied for Career Academy students at no charge.

Course Information
- The classes offer project-based, hands-on curriculum and creative design assignments.
- The skills learned in the classes for the CA Animation Certificate are important skills for a successful career in the motion graphic and animation industries.
- All courses offered for the CA Animation Certificate count towards the Animation Associate's Degree at Aims. Therefore, if the certificates are completed and the student chooses to continue and earn that associate's degree, the student will have fewer courses to complete than students that begin the degree after high school.

Career Path
- Animators: Multimedia Artists & Animators create special effects, animation, or other visual images using film, video, computers, or other electronic tools and media for use in products or creations, such as computer games, movies, music videos, and commercials.
- Employment of multimedia artists & animators is expected to grow at an average rate of 5-8% for all occupations through the year 2024, as demand for motion graphics and animation continues to increase from advertisers, publishers, and web design firms.

Contact Information

Career Academy Bridge Coordinator
Courtney Alvarado Xospa
(970) 339-6542
courtney.alvaradoxospa@aims.edu

Concurrent Enrollment Director
David Jones
(970) 339-6659
david.jones@aims.edu

Graphic Design Department Chair
Brian Dunning
(970) 339-6479
brian.dunning@aims.edu
Aims Career Academy Information
Med Prep – Loveland Campus

Certificates & Classes

<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1st Semester</strong></td>
</tr>
<tr>
<td>HPR 111 - Success Seminar</td>
</tr>
<tr>
<td>HPR 178 - Medical Terminology</td>
</tr>
<tr>
<td>HWE 122 - Responding to Emergencies (Includes American Heart Association Basic Life Support CPR &amp; First Aid Certifications)</td>
</tr>
</tbody>
</table>

*Total of 5 certificates.

Prerequisites

- See your high school counselor to determine if this program is offered for your school and for eligibility criteria for participation in the program.
- Complete the Career Academy application packet as provided by your high school counselor.
- Document a current minimum score of ONE of the following tests:
  - Accuplacer Reading score of 62
  - ACT Reading score of 17
  - SAT Verbal score (taken before 3/1/16) of 430
  - SAT Evidence-Based Reading & Writing score (taken after 3/1/16) of 470
- Able to find transportation to and from classes at Aims Community College.
- New students may start spring semester as slot availability allows.

Nurse Aide Course Requirements

- Attendance is mandatory - 100% attendance is expected.
  - Students must notify the instructor in advance if they will be late, or absent. Failure to follow this policy may result in the student’s inability to make up any classwork including tests, and quizzes.
  - Any absences exceeding six hours will result in the failure of the course.
  - Any absence due to disruptive behavior in the academic setting will be counted towards the absence policy. The student will receive a “zero” on any work administered that day.
- 30 clinical hours will be scheduled outside of regular class hours near the end of the semester. Make-up days for clinical attendance will not be permitted.
- Comply with dress code requirements.
- Complete the HireRight background check and drug screen with no disqualifiers (during class).
- Obtain the following Immunizations:
  - 2 MMR or Titer and Hepatitis B series or Titer.
  - 2 TB Skin Tests – Must be current (received within nine months of the start of clinical).
- Attain a grade of 75% or higher in NUA 101 or the student will not be allowed to take NUA 170.
- Attain a grade of a “C” or higher in all other classes or the student will not be allowed to progress on in the program.

Materials Needed

- Tuition, textbooks, scrubs, blood pressure cuffs, stethoscopes, background checks, testing costs, clinical ID badge, TB Tests, certifications and course materials will be supplied for Career Academy students at no charge.
- White tennis shoes and a watch with a second hand will need to be purchased by the student.

State Board of Nursing Certification

- To be eligible to apply for the State of Colorado Nurse Aide Certification, the student must earn an “S” grade in NUA 170 and 75% or above in NUA 101.
- Students will be required to provide documentation of residency and be at least 16 years of age to test.

Contact Information

<table>
<thead>
<tr>
<th>Career Academy Bridge Coordinator</th>
<th>Concurrent Enrollment Program Director</th>
<th>Med Prep Coordinator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courtney Alvarado Xospa</td>
<td>David Jones</td>
<td>Kendra Merriott</td>
</tr>
<tr>
<td>(970) 339-6542</td>
<td>(970) 339-6659</td>
<td>(970) 339-6218</td>
</tr>
<tr>
<td><a href="mailto:courtney.alvaradoxospa@aims.edu">courtney.alvaradoxospa@aims.edu</a></td>
<td><a href="mailto:david.jones@aims.edu">david.jones@aims.edu</a></td>
<td><a href="mailto:kendra.merriott@aims.edu">kendra.merriott@aims.edu</a></td>
</tr>
</tbody>
</table>
The College Now Department at FRCC is proud to offer concurrent enrollment opportunities to Thompson School District high school students. Concurrent enrollment allows students to earn both high school and college credit for FRCC courses, at no tuition cost to the student. All courses are college-level and students are expected to meet college-level expectations. Students may be responsible for the cost of textbooks, fees, and/or course materials.

FRCC College Now allows students to experience college courses that fall in line with their Individual Career and Academic Plans (ICAPs) while still in high school. Whether exploring career and technical fields or taking general education or transfer courses, FRCC College Now can help you get a jump start on your future!

FRCC offers many degree and certificate programs. For a full list of programs, please visit https://www.frontrange.edu/programs-and-courses/academic-programs. Many FRCC courses are guaranteed to transfer to all public institutions of higher learning in Colorado. Visit www.frontrange.edu/guaranteedtransfer for more info about the Colorado guaranteed transfer program.

Interested?! Talk to your high school counselor today for more information about the application and enrollment process.
**High School Select Program**

College Now - High School Select is a concurrent enrollment program that provides high school students with the opportunity to take FRCC classes at their home high school for college credit. Tuition is covered by the school district, but students may be responsible for textbooks and/or applicable fees.

Class offerings are determined in partnership with the school district, FRCC, and each individual high school. Students should talk with their high school counselor about what course offerings may be available at their high school.

Visit [www.frontrange.edu/lc-collegenow/programs/high-school-select/available-classes](http://www.frontrange.edu/lc-collegenow/programs/high-school-select/available-classes) to see which courses are available at your school.

**Campus Select Program**

Students enroll in classes at the FRCC campus with other FRCC college students. These classes are taught at the college level and students are expected to meet all college-level expectations. Students are expected to select classes with their high school counselors, following the student’s career and academic plan (ICAP), but the College Now department is happy to help provide course information, degree requirements, etc.

Students can choose Campus Select courses from the FRCC catalog. For a complete list of offerings, visit [http://www.frontrange.edu/programs-and-courses/catalog-and-class-schedule](http://www.frontrange.edu/programs-and-courses/catalog-and-class-schedule)

**Career Pathways Program**

**Available Programs:**
- Animal Technology
- Automotive Technology & Service
- Culinary Arts
- Welding & Metal Fabrication
- Architectural, Landscape, & Interior Design
- Criminal Justice Careers Exploration
- Medical Careers Exploration
- Wildlife, Forestry, & Natural Resources

- Take classes with other high school students on campus at FRCC (exceptions noted).
- Programs emphasize hands-on learning (field trips, labs, projects, job shadows, community service, and/or internships) in addition to classroom activities. There is a student fee of $100 or less in each program.
- Bus transportation is provided to/from FRCC (exceptions noted). Students are responsible for transportation when class is held off-campus, which can be frequently in some programs.
- Schedule: This is a year-long program. Classes are held Monday – Friday, 8am to 10am or 12:30pm to 2:30pm.
- All programs offer optional college credit and students can earn FRCC and industry certificates in most programs.
- Recommended preparation: 1) history of good attendance 2) history of turning in assignments 3) willingness to participate in all assignments and activities 4) willingness to seek help and communicate with faculty.
1. Animal Technology

Do you want to help animals and people? Would you like to explore careers in veterinary medicine or other animal-related fields? During this program, students will learn fundamental skills in the handling and health care of common animal species, including dogs, cats, horses, cattle, and many more. Students will study the biology, anatomy, and physiology of different species and learn laboratory and clinical procedures to aid in diagnosing and treating common health problems. This program is made up of classroom activities, field trips, on- and off-campus lab experiences, guest speakers, job shadows and the opportunity to earn placement in an internship.

High School Credit:
This program may earn high school academic credit and/or fulfill high school graduation requirements. Check with your high school counselor for more information.

FRCC College Credit:
Students can earn optional FRCC college credit through our concurrent enrollment option. Check with your high school counselor for more information about enrollment requirements. All college courses apply towards the FRCC Veterinary Technician Assistant Certificate. Students who wish to complete the certificate and sit for the national exam must have completed BIO 105 (Science of Biology) or BIO 111 (General College Biology I with Lab) with a “C” or better in addition to the coursework below. See your counselor to complete the biology course requirement through our Campus Select or High School Select Program.

<table>
<thead>
<tr>
<th>FRCC Course</th>
<th>Semester</th>
<th>Testing Requirements, Course Prerequisites</th>
<th>Total Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>VET 120 - Office Procedures &amp; Relations (2 credits)</td>
<td>Fall</td>
<td>none</td>
<td>Fall: 5 credits</td>
</tr>
<tr>
<td>VET 103 - Veterinary Assistant Restraint &amp; Handling (2 credits)</td>
<td>Fall</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>VET 102 – Veterinary Medical Terminology (1 credit)</td>
<td>Fall</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>VET 113 - Veterinary Assistant Surgical &amp; Nursing Care (3 credits)</td>
<td>Spring</td>
<td>none</td>
<td>Spring: 7.5 credits</td>
</tr>
<tr>
<td>VET 114 - Vet Assistant Lab &amp; Clinical Procedures (3 credits)</td>
<td>Spring</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>VET 183 – Internship: Private Practice (1.5 credits)</td>
<td>Spring</td>
<td>none</td>
<td>Total: 12.5 credits</td>
</tr>
</tbody>
</table>
2. Architectural, Landscape, and Interior Design with CAD Certification

Do you like the idea of blending art and science into a career? This program is designed for students interested in Architecture, Landscape Design, Interior Design, or other design-related fields. Students study both traditional hand-drafting techniques and state-of-the-art 2D and 3D computer-aided drafting skills. Students explore real-world Architectural, Landscape Design, and Interior design projects. Students also learn project and presentation skills useful in many different career paths. This program is made up of classroom activities, studio- and computer lab-based projects, presentations, field trips, guest speakers, independent study, and the opportunity to earn placement in an internship. **This program is offered during the PM session (12:30-2:30) only.**

**High School Credit:**
This program may earn high school academic credit and/or fulfill high school graduation requirements. Check with your high school counselor for more information.

**FRCC College Credit:**
Students can earn optional FRCC college credit through our concurrent enrollment option. Check with your counselor for more information about enrollment requirements. Students can earn the **FRCC Basic Computer-Aided Drafting Certificate** during this program. College courses also apply towards the **FRCC Computer-aided Drafting & Design A.A.S.**, the **Architecture & Building Science A.A.S.**, and a variety of certificate programs at FRCC.

<table>
<thead>
<tr>
<th>FRCC Course</th>
<th>Semester</th>
<th>Testing Requirements, Course Prerequisites</th>
<th>Total Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAD 100-Print-reading for CAD (3 credits)</td>
<td>Fall</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>CAD 101-Computer-aided Drafting I (3 credits)</td>
<td>Fall</td>
<td>none</td>
<td>Fall: 6 credits</td>
</tr>
<tr>
<td>CAD 102-Computer-aided Drafting II (3 credits)</td>
<td>Spring</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>CAD 115-Sketchup (3 credits)</td>
<td>Spring</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>CAD 185-Independent Study (1 credit)</td>
<td>Spring</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>HLT 130- Landscape Design I (3 credits)</td>
<td>Spring</td>
<td>none</td>
<td>Spring: 10 credits</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td></td>
<td></td>
<td><strong>16 credits</strong></td>
</tr>
</tbody>
</table>

3. Automotive Technology & Service

Whether you want to become a professional automotive service technician or are just interested in how vehicles operate, this program is a great place for hands-on training in the automotive field! Topics explored include electrical, ignition, and fuel systems, engines, starting and charging, brakes, suspension and steering, and tires. This program is made up of a mix of lecture, classroom activities, hands-on training in the state-of-the-art automotive shop, mock-up units, guest speakers, and field trips. Students spend one semester “under the car” and another semester “under the hood,” with a different instructor each semester.

**High School Credit:**
This program may earn high school academic credit and/or fulfill high school graduation requirements. Check with your high school counselor for more information.

**FRCC College Credit:**
Students can earn optional FRCC college credit through our concurrent enrollment option. Check with your counselor for more information about enrollment requirements. Students can complete the **FRCC General Automotive Repair & Maintenance Certificate** during this program. College courses also apply towards a variety of additional certificate and degree programs under the Automotive Technology Program at FRCC.

**Group 1:**

<table>
<thead>
<tr>
<th>FRCC Course</th>
<th>Semester</th>
<th>Testing Requirements, Course Prerequisites</th>
<th>Total Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASE 101 – Auto Shop Orientation (2 credits)</td>
<td>Fall</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>ASE 110 - Brakes I (2 credits)</td>
<td>Fall</td>
<td>Pre-requisite of ASE 101</td>
<td>Fall: 6 credits</td>
</tr>
<tr>
<td>ASE 140 - Steering &amp; Suspension (2 credits)</td>
<td>Fall</td>
<td>Pre-requisite of ASE 101</td>
<td></td>
</tr>
<tr>
<td>ASE 120 – Basic Auto Electricity (2 credits)</td>
<td>Spring</td>
<td>Pre-requisite of ASE 101</td>
<td></td>
</tr>
<tr>
<td>ASE 130 - General Engine Diagnosis (2 credits)</td>
<td>Spring</td>
<td>Pre-requisite of ASE 101</td>
<td>Spring: 4 credits</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td></td>
<td></td>
<td><strong>10 credits</strong></td>
</tr>
</tbody>
</table>
4. Criminal Justice Careers Exploration

Interested in a career in the criminal justice system? Students will explore many careers in the criminal justice field and learn about the roles of various criminal justice agencies, criminal law and the courts, and the correctional system. Units on police procedures and tactics (including arrest control, vehicle stops and building searches) and crime-scene management, processing, and investigation will be covered. This program also develops the life skills necessary to get a job in criminal justice or any other field, such as communication skills, professional ethics, and problem-solving. Students interact with a wide variety of professional guest speakers, visit field trip sites, practice tactical skills, and participate in community service, in addition to traditional classroom activities.

High School Credit:
This program may earn high school academic credit and/or fulfill high school graduation requirements. Check with your high school counselor for more information.

FRCC College Credit:
Students can earn optional FRCC college credit through our concurrent enrollment option. Check with your counselor for more information about enrollment requirements. All college courses apply towards the FRCC Associate of Arts (A.A.) Degree for Transfer, Designation in Criminal Justice, which means they transfer to any of the Criminal Justice Programs offered at Colorado Public Four-Year Institutions (including CSU-Global and University of Northern Colorado). Additionally, CRJ 110 is a gtPathways course that will automatically transfer with you to Colorado Public Colleges and Universities and count toward your general education core or graduation requirements for any liberal arts or science associate's or bachelor's degree.
5. Culinary Arts

This program is designed for students interested in exploring the art and science of cooking. Students learn about careers in the food service industry, work in a professional kitchen, practice food safety and sanitation, plan and prepare meals, explore culinary techniques, try different cuisines, and practice food presentation. Students work together to cook and taste their own dishes! This program is made up of lecture, demonstration, practice in the student kitchen, field trips, a student banquet, and the opportunity to earn placement in an internship. Students sit for the national ServSafe® Food Manager Certification exam during the program. **This program is held at Fossil Ridge High School.**

High School Credit:
This program may earn high school academic credit and/or fulfill high school graduation requirements. Check with your high school counselor for more information.

FRCC College Credit:
Students can earn *optional* FRCC college credit through our concurrent enrollment option. Check with your counselor for more information about enrollment requirements. College courses apply towards the **FRCC Hospitality and Culinary Arts Management A.A.S** and a variety of certificate programs at FRCC.

<table>
<thead>
<tr>
<th>FRCC Course</th>
<th>Semester</th>
<th>Testing Requirements, Course Prerequisites</th>
<th>Total Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUA 101 - Food Safety &amp; Sanitation (2 credits)</td>
<td>Fall</td>
<td>none</td>
<td>Fall: 6 credits</td>
</tr>
<tr>
<td>CUA 125 - Intro to Foods (4 credits)</td>
<td>Fall</td>
<td>none</td>
<td></td>
</tr>
<tr>
<td>CUA 145 - Baking &amp; Pastry (4 credits)</td>
<td>Spring</td>
<td>none</td>
<td>Spring: 4 credits</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total: 10 credits</td>
</tr>
</tbody>
</table>

6. Medical Careers Exploration

Are you interested in a fulfilling career in the health care field? In this program, students build a foundation in science and medicine and are exposed to a wide variety of health careers, medical professionals, and medical facilities. Students explore anatomy and physiology, medical terminology, safe practices in the clinical setting, ethics in health care, and fundamental nurse aide skills. During the year, students can earn certificates in 1) Adult First Aid/CPR 2) Infant and Child First Aid/CPR and 3) Dementia Care. Curriculum also includes basic nurse aide (CNA) training, culminating, for qualified students, in a three-day clinical experience working with real patients. This program is made up of classroom activities, guest speakers, practice in the nursing lab, field trips, community service, and clinical experiences. **PSD students attend the program at FRCC and TSD students attend the program at the FRCC Loveland campus.**

High School Credit:
This program may earn high school academic credit and/or fulfill high school graduation requirements. Check with your high school counselor for more information.

FRCC College Credit:
Students can earn *optional* FRCC college credit through our concurrent enrollment option. Check with your counselor for more information about enrollment requirements. Students can complete the **FRCC Nurse Aide Certificate** during this program, preparing them to take the State Certification Exam to become a Certified Nurse Aide.

<table>
<thead>
<tr>
<th>FRCC Course</th>
<th>Semester</th>
<th>Testing Requirements, Course Prerequisites</th>
<th>Total Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPR 208 – Advanced Medical Terminology (2 credit)</td>
<td>Fall</td>
<td>None</td>
<td>Fall: 2 credits</td>
</tr>
<tr>
<td>NUA 101 – Certified Nurse Aide Health Care Skills (4 credits)</td>
<td>Spring</td>
<td>Complete CCR 092 or test into CCR 093 or higher</td>
<td></td>
</tr>
<tr>
<td>NUA 170 – Nurse Assistant Clinical Experience (1 credit)</td>
<td>Spring</td>
<td>Co-requisite: NUA 101</td>
<td>Spring: 5 credits</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Total: 7 credits</strong></td>
</tr>
</tbody>
</table>
9. **Welding & Metal Fabrication**

Let the sparks fly! This program is great for students interested in learning basic welding & metal fabrication techniques. Students can take the exam to become SENSE Level 1 certified through the American Welding Society and employers are willing to pay top dollar for skilled, certified welders! In this program, students build projects in the welding shop using gas metal arc welding, shielded metal arc welding, oxy-fuel cutting, plasma cutting, and metal-forming techniques. Students work together to produce unique creative designs in teams. Fabricated items will include both student-initiated projects as well as items that were requested by local individuals and companies. This allows students to experience real-world business experience, working with customers on bidding, formalizing a contract, and more. This program is made up of lecture, hands-on training in the FRCC Welding Shop, group projects, guest speakers, and field trips.

**High School Credit:**
This program may earn academic credit and/or fulfill high school graduation requirements. Check with your high school counselor for more information.

**FRCC College Credit:**
Students can earn optional FRCC college credit through our concurrent enrollment option. Check with your counselor for more information about enrollment requirements. Students can earn the FRCC Welding Fundamentals Certificate and an FRCC Oxyacetylene Welding Certificate during this program. College courses also apply towards a variety of additional degree and certificate programs under the Welding Program at FRCC.

<table>
<thead>
<tr>
<th>FRCC Course</th>
<th>Semester</th>
<th>Testing Requirements, Course Prerequisites</th>
<th>Total Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEL 100 - Safety for Welders (1 credit)</td>
<td>Fall</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>WEL 103 – Basic Shielded Metal Arc I (4 credits)</td>
<td>Fall</td>
<td>Prerequisite or Co-requisite: WEL 100</td>
<td>Fall: 5 credits</td>
</tr>
<tr>
<td>WEL 125 – Introduction to Gas Metal Arc Welding (4 credits)</td>
<td>Spring</td>
<td>Prerequisite or Co-requisite: WEL 100</td>
<td>Spring: 4 credits</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total: 9 credits</td>
</tr>
</tbody>
</table>

10. **Wildlife, Forestry, & Natural Resources**

Do you love the outdoors? This program is designed for students interested in a career where the outdoors is their office. Students will find their passion while learning the fundamentals of natural resource systems, forestry, wildlife management, and outdoor recreation. Students participate in a technician skills unit covering equipment operation, safe chain-saw use, GPS/mapping and orienteering. Classroom knowledge is applied through multiple field labs at Horsetooth Mountain Park, U.S. Forest Service land near Red Feather Lakes, and many more. This program is made up of classroom activities, numerous field experiences, guest speakers, and the opportunity to earn placement in an internship during the spring semester.

**High School Credit:**
This program may earn academic credit and/or fulfill high school graduation requirements. Check with your high school counselor for more information.

**FRCC College Credit:**
Students can earn optional FRCC college credit through our concurrent enrollment option. Check with your counselor for more information about enrollment requirements. Students can earn the FRCC Forestry Certificate during this program. College courses also apply towards a variety of additional degree and certificate programs at FRCC. Courses may also transfer to the CSU Warner College of Natural Resources, depending on the degree/concentration. See a CSU program advisor for more information.

<table>
<thead>
<tr>
<th>FRCC Course</th>
<th>Semester</th>
<th>Testing Requirements, Course Prerequisites</th>
<th>Total Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRE 100 – Foundations of Forestry (3 credits)</td>
<td>Fall</td>
<td>None</td>
<td>Fall: 6-7 credits</td>
</tr>
<tr>
<td>NRE 110 – Forestry Field Research (3 credits)</td>
<td>Fall</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>NRE 280 – Internship (1 credit, optional, instructor approved)</td>
<td>Fall</td>
<td>None</td>
<td>Fall: 6-7 credits</td>
</tr>
<tr>
<td>NRE 204 – Rangeland Management &amp; Restoration (4 credits)</td>
<td>Spring</td>
<td>None</td>
<td>Spring: 7-8 credits</td>
</tr>
<tr>
<td>NRE 205 – Wildlife &amp; Fisheries Management Principles (3 credits)</td>
<td>Spring</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>NRE 280 – Internship (1 credit, optional, instructor approved)</td>
<td>Spring</td>
<td>None</td>
<td>Total: 13-15 credits</td>
</tr>
</tbody>
</table>
Ascent Program

Definition of ASCENT: ASCENT stands for Accelerating Students through Concurrent Enrollment. Students who have completed at least 12 credit hours of postsecondary course prior to completion of his/her 12th grade year may be eligible for the ASCENT Program. They remain students in their Local Education Provider (LEP) for one year following their 12th grade year, and the LEP receives ASCENT specific per-pupil state funding that it uses to pay their college tuition at the resident community college rate. Students receive their high-school diplomas at the end of their ASCENT year.

What is ASCENT: Expanding pathways from high school to postsecondary opportunities is essential to increasing the number of postsecondary degrees earned by Coloradans and decreasing high school dropout rates. ASCENT provides an accelerated opportunity for students to earn a postsecondary credential, helping students develop the knowledge, skills and abilities necessary to be postsecondary and workforce ready.

Student Eligibility:

- Complete, or be on schedule to complete at least 12 credit hours (semester hours or equivalent) of transcript postsecondary course work prior to the completion of his or her 12th grade year
- Eligible 12th graders may take basic skills courses if allowed by their LEP, but basic skills coursework does not count toward the 12 credit hours of college coursework required for ASCENT eligibility.
- ASCENT students must be qualified at the college level for the courses in their degree or certificate programs, and must not need remediation in their selected pathway/degree program. This includes supplemental academic instruction (SAI) courses
- Have been selected for participation in the ASCENT program by his or her high school principal or equivalent school administrator
- Have satisfied the minimum Recommended for the course(s) before his or her enrollment in the course(s), and
- Have not participated in the ASCENT program in previous years
- Students are not to be counted as high school graduates or granted a high school diploma until they complete the ASCENT program
- Eligible students may only participate in the ASCENT program for 1 academic year
- Because submission of a request does not guarantee an ASCENT slot, LEPs should notify ASCENT-eligible students to continue to pursue any additional postsecondary opportunities that they would normally. Students should be advised to:
  - Research career and/or military opportunities;
  - Apply to any postsecondary institutions/programs they are interested in;
  - Apply for any scholarships they may be eligible for, and
  - Complete the FAFSA

Tuition: Thompson School District pays for the student’s tuition. Books and other fees is the responsibility of the student. Students are eligible to apply for COF stipend.

Attendance: ASCENT program participants are classified as either full-time or part-time depending on the number of credit hours of college courses they are attending on October 1 of their ASCENT year.

- Students enrolled in 12 or more credit hours will be considered full-time students, and their LEPs will receive fulltime funding.
- Students enrolled in 3 credit hours, but fewer than 12 credit hours will be considered part-time students, and their LEPs will receive part-time funding.
- It is important to note that the ASCENT program is geared toward students who have the goal of attaining a college credential. Participants should be encouraged to enroll in as many courses as they can successfully complete in order to earn their degree or certificate.
- Attendance needs to be collected for ASCENT students as part of the October count. If students are not attending any classes at the LEP, students must get verification of attendance from their instructors at each course at the IHE during the October count period. An attendance form is sent out to ASCENT students late September for the October count window. This has to be filled out by their instructors for funding, it is the student’s responsibility.

Graduation and Diploma: The student can still walk with their graduating class. The diploma will not be awarded until after their ASCENT year. The diploma must be dated for the student’s 5th year, end of ASCENT year.